



2017-2018

UNDERGRADUATE CATALOG

www.kutztown.edu/catalog

The Undergraduate Catalog provides information about Kutztown University and its undergraduate programs. The contents of this catalog are not to be considered binding or a contract between the University and its students.

Each step of the educational process, from admission through graduation, requires continuing review and appropriate approval by University officials. The University, therefore, reserves the right to change the requirements and regulations contained in this document.

The provisions of this catalog are not intended to create any substantive rights beyond those created by the Commonwealth of Pennsylvania and are not intended to create, in and of themselves, any cause of action against Pennsylvania's State System of Higher Education, the Board of Governors, the Chancellor, an individual president or university, or any other officer, agency, agent, or employee of the State System of Higher Education.

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Introduction

Mission, Vision, and Purpose of the University

Kutztown University's mission is to provide a high quality education at the undergraduate and graduate levels in order to prepare students to meet lifelong intellectual, ethical, social, and career challenges, supporting its vision to be a regional center of excellence with opportunities for advanced academic, cultural, and public service experiences, within a caring community, designed to promote success in a global society.

Grounded in regional history and focused on innovative futures through the colleges of Business, Education, Liberal Arts and Sciences and Visual and Performing Arts, Kutztown University:

- offers a contemporary liberal arts education as the foundation for inspiring and challenging students to grow intellectually, professionally, ethically, civically, and socially;
- provides support for students to reach their unique potential;
- commits to access and diversity, drawing upon international, national, regional, and community partnerships to prepare new generations of global citizens;
- values the life experiences of students, faculty, and staff to create a caring community on a beautiful campus; and
- cultivates opportunities for students to engage the world and pursue meaningful lives and careers through collaboration, mentorship, and intentional working relationships.

Kutztown is located on 289 acres in southeastern Pennsylvania, between Reading and Allentown, with 65 buildings including 10 residence facilities, which accommodate 3,800 students. The faculty and staff complement is approximately 1,000 headcount including 470 faculty with an 18:1 student to faculty ratio. Most of the University's \$175 million in revenue sustain its instructional and support programs, although \$44 million represent auxiliary fees such as room and board which is used to pay for costs in those areas.

History of the University

Kutztown University is a member of Pennsylvania's State System of Higher Education. Founded on September 15, 1866 as Keystone Normal School, it became Kutztown State Teachers College in 1928, Kutztown State College in 1960, and Kutztown University on July 1, 1983. We celebrated our sesquicentennial in 2015-2016 with 13 months of special events, recognitions, and promotions (<https://www.kutztown.edu/events/150.htm>).

The University is comprised of four academic colleges: College of Business, College of Education, College of Liberal Arts and Sciences, and College of Visual and Performing Arts. At the undergraduate level, there are over 100 majors, minors, and concentrations appropriate to each college, along with a University general education program. At the graduate level, there are 31 Master's programs, ten certifications, and two doctoral programs.

Accreditations

Kutztown has both institutional and specialized accreditation. It is accredited by the Middle States Commission on Higher Education ([MSCHE](#)), Accreditation Association for Ambulatory Health Care ([AAAHC](#)), American Chemical Society ([ACS](#)) (program approval), Association to Advance Collegiate Schools of Business ([AACSB](#)), Commission on Sport Management Accreditation ([COSMA](#)), Council for Accreditation of Counseling and Related Educational Programs ([CACREP](#)), Council for the Accreditation of Educator Preparation ([CAEP](#))/National Council for Accreditation of Teacher Education (NCATE), Council on Social Work Education ([CSWE](#)), International Association of Counseling Services, Inc. ([IACS](#)), National Association of Schools of Art and Design ([NASAD](#)), National Association of Schools of Music ([NASM](#)), and National Council for Accreditation of Coaching Education ([NCACE](#)).

Non-Discrimination Statement

Kutztown University does not discriminate in employment or educational opportunities on the basis of sex, race, ethnicity, national origin, age, disability, religion, sexual orientation, gender identity, or veteran status. To discuss a complaint of discrimination, please contact the University's Title IX Coordinator located in the Office of Social Equity, Old Main A-Wing, Room 02, by phone at (610) 683-4700 or by email at pena@kutztown.edu or the Office for Civil Rights located in the Lyndon Baines Johnson Department of Education Building, 400 Maryland Avenue, SW, Washington, D.C., 20202-1100, by phone at (800) 421-3481 (TDD: (800) 877-8339), by fax at 202-453-6012, or by e-mail at OCR@ed.gov.

University Calendar 2017-2018

Note: Fall 2017 semester has 14 class meeting days for each day Monday through Friday for a total of 70 instructional week days, 14 Saturday sessions and one week of Final Examinations per semester.

FALL SEMESTER 2017

Residence Hall Occupancy for Incumbent Students.....	Thursday, Aug. 24
Faculty Meeting	Friday, Aug. 25
Residence Hall Occupancy for Incumbent Students.....	Friday, Aug. 25
Residence Hall Occupancy Begins (New Students).....	Saturday, Aug. 26
Residence Hall Occupancy continues for Incumbent Students	Sunday, Aug. 27
Classes Start – 8:00 AM for UG	Monday, Aug. 28
Classes Start – 7:00 AM for GR	Monday, Aug. 28
All Students Late Registration and Drop/Add Period	Mon., Aug. 28 – Tues., Sep. 5
Saturday Classes Start.....	Saturday, Sep. 2
Labor Day Holiday (No Classes).....	Monday, Sep. 4
Columbus Day Holiday – No Classes (Administrative Offices Open) ...	Monday, Oct. 9
Follow Monday Schedule	Tuesday, Oct. 10
Mid Term	Monday, Oct. 16
Thanksgiving Recess	
Begins – at end of classes	Tuesday, Nov. 21
Ends – 8:00 AM for UG and 7:00 AM for GR.....	Monday, Nov. 27
Last Day of Regular Classes	Saturday, Dec. 9
Final Examinations Begin.....	Monday, Dec. 11
Residence Hall Occupancy Ends	Friday, Dec. 15
Final Examinations End.....	Friday, Dec. 15
December Commencement.....	Saturday, Dec. 16
Last Day of Semester.....	Saturday, Dec. 16

WINTER SESSION 2018

Classes Start.....	Monday, Dec. 18
Last Day of Semester.....	Wednesday, Jan. 17

Note: Spring 2018 semester has 14 class meeting days for each day Monday through Friday for a total of 70 instructional week days, 14 Saturday sessions and one week of Final Examinations per semester.

SPRING SEMESTER 2018

Martin Luther King Day Holiday – School Closed	Monday, Jan. 15
Residence Hall Occupancy Begins	Sunday, Jan. 21
Classes Start – 7:00 AM for GR and 8:00 AM for UG	Monday, Jan. 22
All Students – Late Registration and Add/Drop Period	Mon., Jan. 22 – Mon., Jan.29
Saturday Classes Start	Saturday, Jan. 27
President’s Day Holiday – Classes Held	Monday, Feb 19
Mid-term	Friday, Mar. 9
Spring Break	
Begins – at end of classes	Saturday, Mar. 10
Ends – 7:00 AM for GR and 8:00 AM for UG	Monday, Mar. 19
Last Day of Regular Classes	Saturday, May 5
Final Examinations Begin	Monday, May 7
Residence Hall Occupancy Ends	Friday, May 11
Final Examinations End	Friday, May 11
May Commencement	Saturday, May 12
Last Day of Semester	Saturday, May 12

SUMMER SESSION 2018

Session I

Memorial Day Holiday	Monday, May 28
Residence Hall Occupancy	Tuesday, May 29
Begins	Wednesday, May 30
Friday Make-up Classes held	Friday, Jun. 1 & 8
Ends	Thursday, Jun. 28

Session II

Begins	Monday, Jul. 9
Ends	Thursday, Aug. 9

TEN WEEK

Begins	Wednesday, May 30
Ends	Thursday, Aug. 9

Admission Requirements

Freshman Admissions

1. Complete the application for admission. www.kutztown.edu/apply
2. Submit a non-refundable \$35 application fee. Kutztown University subscribes to the NACAC or CEEB fee waiver program. Students should request submission of the fee waiver form through their guidance counselor.
3. Request an official copy of the high school transcript and send directly to the Office of Undergraduate Admissions. GED results must be sent directly from the Department of Education.
4. Submit ACT or SAT test scores.
5. Complete any other requirements as prescribed by the intended major by the appropriate date. Example: portfolio, art test, music audition.
6. Kutztown University strongly encourages students to pursue a college preparatory program in high school which consists of: 4 years of English, 3 years of Social Science, 3 years of Mathematics, and 3 years of Science.
7. Applicants will be considered on a rolling basis.
8. When approved for admission to the University, applicants will be required to make a non-refundable advance registration deposit. Students requesting on-campus housing will be required to submit an additional non-refundable housing application fee by May 1.
9. A favorable admission decision is based upon the student's qualifications at the time of the offer and is contingent upon his or her maintaining those standards through graduation from high school. Students must submit a final official transcript that includes the date of graduation to the Office of Undergraduate Admissions.

Transfer Student Admissions

1. Complete the application for admission. www.kutztown.edu/apply
2. Submit a non-refundable \$35 application fee.

3. Request an official copy of the high school transcript and send directly to the Office of Undergraduate Admissions. GED results must be sent directly from the Department of Education.
4. Request official copies of college transcripts from all post-secondary institutions attended and send directly to the Office of Undergraduate Admissions.
5. Transfer students with 12 or more college level credits must have a minimum 2.0 GPA on a 4.0 GPA scale. Students who earned less than 12 credits will be required to submit their official high school record and standardized ACT or SAT test scores that will be used as part of the review process.
6. Complete any other requirements as prescribed by the intended major by the appropriate date. Example: portfolio, art test, music audition.
7. Transfer students with 39 or more college level credits must enter with a declared major. Exceptions to this policy may be considered with the approval of the Chairperson, Department of Academic Enrichment.
8. Applicants will be considered on a rolling basis.
9. When approved for admission to the University, applicants will be required to make a non-refundable advance registration deposit. Students requesting on-campus housing will be required to submit an additional non-refundable housing application fee by May 1.
10. A favorable admission decision is based upon the student's qualifications at the time of the offer and is contingent upon his or her maintaining those standards through the end of the semester. Students must submit a final official transcript to the Office of Undergraduate Admissions.

Re-Entry Students

The University welcomes the return of students who did not complete their degrees. The student's previous Kutztown University academic record will be the major criterion in determining re-entry. Students should be aware that some major programs have restricted enrollments and/or specific entrance requirements.

Readmitted Students: Any student who has previously attended Kutztown University is required to complete a Request for Readmission at the Office of the Registrar and pay the \$35 application fee.

Transfer Readmitted Students: Students applying for re-admission who have attended other institution(s) since leaving Kutztown University must submit an official transcript from each college. Students are required to apply through the Office of the Registrar and complete a Request for Readmission and pay the \$35 application fee.

Second Degree

A student who has earned a bachelor's degree at a college or university in one field of study and wishes to earn a second undergraduate degree in another field of study is classified as a second degree student. This does not apply to anyone interested in the field of Education. Students must complete an application for admission, pay a \$35 application fee, and submit official copies of their college transcripts from all post-secondary institutions attended.

Transient Students

This classification applies to a student who is enrolled at another college or university, excluding visiting students from Pennsylvania's State System of Higher Education institutions, and who wishes to take courses at Kutztown University. Transient students are required to submit an application for admission to the Office of the Registrar and pay a \$35 application fee.

Visiting Students

This classification applies to a student who is enrolled at another Pennsylvania State System institution (one of the 14 State Universities of Pennsylvania) who wishes to take courses at Kutztown University. Visiting students are required to submit a Visiting Student Application available in the Registrar's Office.

Homeschooled Students

Kutztown University welcomes applications from students who have been homeschooled. Please review the guidelines under the freshmen/transfer sections as well as the following information:

- A. Homeschooled applicants should submit a grade transcript if available and the official evaluation for each grade from 9 to 11. A final grade transcript (if applicable) and evaluation must be submitted when the final year of homeschooling is complete.
- B. All homeschooled applicants are required to submit ACT or SAT scores.
- C. If an official high school diploma is not awarded by an agency, homeschooled applicants must submit a copy of the GED diploma and

the GED scores from all five sections of the test. This information must be mailed directly from the Department of Education of the state issuing the diploma. Students must receive a minimum total of 600 points on all four GED tests. Applicants may score no lower than 150 points on any individual test. Applicants are also allowed to retake any individual test they do not pass. Although there is no waiting period required to retest, GED exams can be taken only three times per year in Pennsylvania. The individual GED subject areas include:

- Reasoning through language arts
- Mathematical reasoning
- Social studies
- Science

D. Interviews for homeschooled applicants are not required but they are strongly encouraged for students graduating when they are younger than 17 years old.

INTERNATIONAL TRANSFER STUDENT

- ***Kutztown University International Application*** — A completed international online application form.
- ***Application Fee*** — A non-refundable application fee of \$35.00 USD paid online via credit card.
- ***Official University Transcripts*** — Official, original transcripts of all academic records are required (with English translations if necessary) from every college or university you attended. Official transcripts must be sent directly to Kutztown University. The Office of International Admissions and Services does not require students to submit their academic records for evaluation from an external agency during the initial admissions process. However, Kutztown University reserves the right to require an external credential evaluation of academic records from outside of the U.S. at any time during a student’s academic program at the university.
- ***Test Scores*** — All applicants are required to submit one formal exam of English language proficiency, such as TOEFL, IELTS, or PTE to Kutztown University. Students should request test results be sent directly from the testing agency—the institutional code for TOEFL is 2653. We **cannot** accept copies or faxes of test scores. Scores must have been obtained in the last two years. This requirement can be waived for students from countries where English is the primary language or for students who have completed 24 college-level semester credits and an English composition class with a grade of C or higher in the U.S.
 - TOEFL requirement is 550 (paper), or 79 (internet)
 - IELTS requirement is 6.5 overall score
 - PTE requirement is 53 overall score

- *Students who do not meet the minimum test score requirement or who do not wish to submit test scores may be conditionally admitted if they enroll in the KU-NCC ESL program.*
- **Secondary School Certificate** – Although it will not be used to review the application for admission, an official final secondary school transcript is required to complete the application file. The exception to this requirement is for students who have earned:
 - 1) An associate's or higher degree or;
 - 3) 30 or more college-level semester credits (or 45 quarter credits).
- **Portfolio** - Students applying to the Applied Digital Arts, Art Education, Communication Design, Crafts, or Studio Art majors must submit a portfolio.
- **Audition** - Students applying to the Commercial Music, Music, Music Education, or Music Performance major must audition.

All applications for admission should be sent to:

Office of International Admissions and Services

P.O. Box 730

Kutztown University

Kutztown, Pennsylvania 19530, USA

For additional information regarding international applications, please contact the Office of International Admissions and Services via email at international@kutztown.edu or at (484) 646-4256.

Tuition and Fees

While subject to change without notice, the following tuition and fee amounts apply to all Kutztown University undergraduate students at press time:

All required tuition and fees are listed and defined on these websites:

For Undergraduate Program Tuition and Fees see the Office of Student Accounts at

[http://www.kutztown.edu/costs-and-financial-aid/tuition-and-fees-\(undergraduate\).htm](http://www.kutztown.edu/costs-and-financial-aid/tuition-and-fees-(undergraduate).htm)

For Graduate Program Tuition and Fees see the Office of Student Accounts at

[http://www.kutztown.edu/costs-and-financial-aid/tuition-and-fees-\(graduate\).htm](http://www.kutztown.edu/costs-and-financial-aid/tuition-and-fees-(graduate).htm)

Deposits

Advance Registration Deposit - An Advance Registration Deposit of \$275.00 must be paid when an applicant wants to accept the offer of admission after submitting an application. This can be paid online using MyKU log on information, by mail with check or money order, or in person with cash, check, or money order. This fee is non-refundable under any condition.

Housing Application Fee - Incumbent students must pay a \$75 application/preference fee for each year they choose to live on campus. First semester students do not have to pay this fee. For housing requirements and more, please contact Housing and Residential Services 610-683-4027.

Delinquent Accounts

No student with an account in delinquent status shall be enrolled, graduated, or permitted to receive a transcript of records or diploma until all outstanding fees have been paid in full. Any student account in delinquent status at the end of a semester may be placed with the Pennsylvania Office of the Attorney General and/or collection agencies for collection and legal action.

Withdrawal and Refunds

From the Institution - Students withdrawing from the institution must inform the Registrar’s Office in writing. In the event that all courses are dropped via MyKU, notification of such must still be sent to the Registrar’s Office. Failure to do so could affect a student’s academic status, as well as his or her financial aid eligibility. The official date of withdrawal for the purpose of a refund (or reduction of charges) will be the date the Registrar’s Office receives notification. The percentage below is the amount by which your charges will be adjusted. This applies to students who withdraw from all University courses and no longer have a schedule. Any students receiving financial aid are encouraged to meet with Financial Aid Services prior to withdrawing as all, or a portion of, aid received (or refunded) may have to be returned. The tuition technology fee is non-refundable. This schedule pertains to Fall and Spring semesters. The Drop Period in Summer Sessions is the first two days of the session.

During the Drop Period (roughly the 1 st week of the semester)	100%
Through the end of week 2	80%
Through the end of week 3	60%
Through the end of week 4	50%
Through the end of week 5	40%
After the fifth week	0%

Students withdrawing from the institution who are residence hall students and/or have a meal plan please see the following sections.

From a Course(s) - Students withdrawing from a course or courses and not withdrawing from the Institution completely, may do so via MyKU through the Drop Period for a refund or reduction of charges. Courses withdrawals processed in the Registrar’s Office will have an official date of the date they receive notification. The percentage below is the amount by which your charges will be adjusted. The tuition technology fee is non-refundable. This schedule pertains to Fall and Spring semesters. The Drop Period in Summer Sessions is the first 2 days of the session. Please note that if you withdraw from a course or courses after the Drop Period there is no refund or reduction in charges.

During the Drop Period 100%
After the Drop Period 0%

Withdrawal from Residence Hall - Students who cancel housing after July 1, but are continuing full-time enrollment at Kutztown University, are responsible for payment of the Fall and Spring semester housing fees. Room fees are refundable (charges reduced) according to the policies described in the Housing Contract. Students eligible for an actual refund will have it issued by the Office of Student Accounts via the normal refund process and using the refund policies. The reduction in charges for students withdrawing from the University during the semester will be based on the date of official check-out from the residence hall.

Withdrawal from Meal Plan - A meal plan change or cancellation may be requested, in writing, prior to the start of the semester or during the first two weeks of the semester. No changes to, or cancellations of the meal plan will be permitted after the second week of the semester. When a student contractually withdraws from a residence hall, a meal plan change or cancellation may be requested in writing. Withdrawal from a residence hall does not automatically cancel the student's meal plan contract. If a student withdraws from the University, the unused portion of the meal plan is refundable in accordance with University policy. If withdrawal from the meal plan is required after the second week of the semester because of special circumstances, such as serious illness or other emergency situations, a student may qualify for a reduction in charges and subsequently a refund through the Office of Student Accounts via the normal refund process and using the refund policies. The appeal process for special circumstances should be addressed to the Dining Services Office at (610) 683-1314 or kudiningservices@kutztown.edu.

Refund Policy - The most up-to-date withdrawal/refund policy can be found on the Office of Student Accounts Website: <http://www.kutztown.edu/studentaccounts>

Academic Policies and Procedures

Academic Forgiveness for Undergraduates

Academic readiness and situational factors may affect the academic performance of undergraduate students, especially first-time students, in the university setting. For a variety of reasons, including poor performance, students separate from the University and involve themselves in work and other life experiences. At present, students with a history of poor performance who choose to return to Kutztown University after years of separation often face obstacles created by their previous academic record.

The academic forgiveness policy applies to undergraduate students who seek readmission to Kutztown University after having been separated from the University for at least four years. Students must submit a completed Academic Forgiveness Application to the Office

of the Registrar at the time of readmission to the University. If granted, the student will start the rest of the program of study with a 0.00 GPA. Academic Forgiveness may only be applied once to a student's academic record and will only be applied if the student earns a semester GPA of 2.0 or above during the student's first semester back. Academic Forgiveness will be applied to the student's record after the student completes the first semester with a GPA of 2.0 or higher. The student must be registered for at least 12 credits during that first semester.

A student who receives Academic Forgiveness must take at least 24 additional credits of graded coursework at Kutztown University before a degree will be granted. The GPA calculations and individual course grades earned during the previous period of attendance will remain part of the permanent transcript record. A notation will be made on the transcript indicating that the Academic Forgiveness Policy was applied and that the calculation of the overall GPA is based solely on grades earned after re-admission to the University. Students would keep credits earned previously in courses for which a final grade of "C" or better was recorded. As is the case for transfer credits from other institutions, credits toward a degree will not be granted for courses in which a grade less than "C" was earned during the previous period of enrollment at Kutztown University.

This policy does not replace or alter the "10-year" rule and so students must be aware that courses in the major taken over 10 years prior to re-entry may be judged to be not applicable toward a degree.

Academic Honesty

Undergraduate students at Kutztown University are expected to be honest and forthright in their academic endeavors. Any acts of academic dishonesty by students, such as plagiarism on written papers/projects, falsifying the results of research, or cheating on examinations, threaten to undermine the educational and ethical goals of the University for its students. Such violations are of the utmost seriousness. Academic dishonesty is any action that constitutes a violation of the Academic Honesty Policy and includes, but is not limited to, the following:

1. Fabricating or falsifying information, including, but not limited to research findings, data, or statistical analyses; forging signatures; or altering dates.
2. Plagiarizing or representing someone else's words, either spoken or written, ideas, formulas, solutions, or data as one's own work.
3. Engaging in academic misconduct such as tampering with grades or participating in the distribution and/or receipt of any part of a test before its administration.
4. Altering or adding or expanding upon answers on exercises, examinations, or quizzes after the work has been graded.
5. Misrepresenting a mastery of subject matter in an academic project or attempt to gain an advantage by the use of illegitimate or unauthorized means, such as misrepresentation of one's credentials.

6. Presenting material to fulfill course requirements that was researched or prepared by others (such as commercial services) without the knowledge of the professor.
7. Gaining unauthorized access to the computer system and/or electronic devices of Kutztown University or another person. Violations include tampering with or copying programs or data or access codes associated with coursework.
8. Making fraudulent statements or claims to gain academic credit or influence testing or grading.
9. Taking examinations or quizzes under the identity of another person or arranging to have another person take examinations or quizzes in place of the person registered for the course.
10. Using the same paper or work more than once without faculty authorization.
11. Intentionally evading Kutztown University academic policies and procedures; for example, improperly processing course withdrawals, grade changes, or other academic procedures.
12. Buying, selling, stealing, or engaging in the unauthorized exchange of, or improperly acquiring and/or using, any assignments, papers, or projects.
13. Using unauthorized materials/resources during examinations.
14. Providing or receiving unauthorized assistance in coursework or examinations.

Academic Warning, Probation, and Dismissal

All newly admitted, re-entry, and transfer students must meet the following minimum requirements for continuing enrollment in good academic standing – maintaining a minimum cumulative grade point average (CGPA) of 2.00 or higher for all work taken at Kutztown University.

Academic Warning. Any full-time student falling below the 2.00 CGPA at the end of any fall or spring semester will be placed on academic warning. Part-time students will be evaluated every 12 credits and will receive an academic warning whenever this evaluation shows their CGPA to have fallen below 2.00. Only one semester of academic warning is allowed during a student's academic career at Kutztown University. In an academic warning semester, the student: (1.) is not considered to be in good academic standing; (2.) is prohibited from participating in any sporting organization activity or leadership position in student organizations; (3.) is expected to contact the Department of Academic Enrichment and to use academic support services to remediate academic difficulties; and, (4.) may register for no more than 15 credits for the subsequent semester. Academic warning in the spring is not effective if the student takes courses during the winter and attains a CGPA of 2.0. Academic warning in the fall is not effective if the student takes courses during the summer and attains a CGPA of 2.0.

Academic Probation: A student who falls below the 2.00 CGPA after one full-time semester of academic warning shall be placed on academic probation. The CGPA of a part-time student who has received an academic warning must be brought up to 2.00 or higher within 12 credits attempted or the student will be placed on academic probation. The University will notify the student, in writing, regarding the danger of dismissal. Only

one semester of academic probation is allowed during a student's academic career at Kutztown University. During the semester of academic probation the student: (1.) is not considered to be in good academic standing; (2.) is prohibited from participating in any sporting organization activity or leadership position in student organizations; (3.) is expected to contact the Department of Academic Enrichment and to use academic support services to remediate academic difficulties; and, (4.) may register for no more than 15 credits for the subsequent semester. Academic probation in the spring is not effective if the student takes courses during the winter and attains a CGPA of 2.0. Academic probation in the fall is not effective if the student takes courses during the summer and attains a CGPA of 2.0.

Dismissal: A student who falls below the 2.00 CGPA after one full-time semester of probation will be dismissed from the University. The CGPA of a part-time student who has been placed on academic probation must be brought up to 2.00 or higher within 12 credits attempted or the student will be dismissed. Dismissal letters are sent out at the end of the fall and spring semesters. Dismissal in the spring is not effective if the student takes courses during the winter and attains a CGPA of 2.0. Dismissal in the fall is not effective if the student takes courses during the summer and attains a CGPA of 2.0.

Readmission of Dismissed Students: A student dismissed from the University must petition the Undergraduate Exceptions Committee (UEC) for an additional semester of academic probation prior to readmission. Students readmitted to the University will have a maximum of two full-time semesters (24-30 credits) to reach a CGPA of 2.00. During that time, the student must maintain a CGPA of at least 2.0 for each semester of work following readmission. Failure to maintain a CGPA of 2.0 for each semester until the CGPA reaches 2.00 or higher will result in a second dismissal. Any student who is dismissed from the University for failure to maintain a CGPA of 2.0 a second time is not eligible for future readmission.

Advanced Placement

Students enrolled in Advanced Placement courses during high school are administered the Advanced Placement Examinations in May by the College Entrance Examinations Board, Princeton, New Jersey, to test the extent to which they have succeeded in meeting the university-level demands of certain introductory courses at the university. Students earning a grade of "3-Qualified" or better are given advanced standing and university credit for the courses in question. In some cases, students must earn a grade of "4 – Well Qualified" to be given advanced standing and university credit for the courses in question. Contact Testing Services for further information.

Auditing Undergraduate Courses

Registrations for the auditing of courses will be considered tentative until the close of regular registration. If the registration of regular students fills the class quota or if regular registrants occupy all facilities, the students who have registered for auditing will be required to withdraw. The student would register "not-for-credit" and would pay the full

fee. The student would not be required to take examinations, would be allowed to take the course only with the approval of the instructor, and would not be given a grade in the course. Once the student had enrolled “not-for-credit,” the student cannot change part way through the course except through special action by the Undergraduate Exceptions Committee, upon receipt of approval from the department chair, and the appropriate college dean. The student could take the course for credit at a later date. The student is permitted to audit no more than one course per semester.

Change of Major, Minor, or Academic Advisor

Any student may request a change of major, minor, or academic advisor, however individual academic departments often have special criteria that must be satisfied before approval for change of major is granted. Students should check the college and department requirements carefully before making such a request. All changes of major, minor, or academic advisor will become effective on the date that the request is received in the Registrar’s Office. A student who changes into a new major/minor, adds an additional major/minor, or re-enters a previous major/minor program must comply with all course and degree requirements that are in force on the effective date of the change, addition, or re-entry. All changes of major, minor, or academic advisor must be made prior to the end of final examination week. For all changes of advisor, major, track/concentration, or minor, students should see the chair of the department that administers that major, track/concentration, or minor.

Class Attendance

Regular attendance in class is expected of all students at the University.

Class Attendance: The individual instructor has both the authority and responsibility for managing student attendance. The instructor’s policy regarding attendance for each course, including its potential effect on the final grade, should be written in the course syllabus or first day handout and communicated to students during the first week of the semester. While, as stated above, classes are conducted on the premise that regular attendance is expected, the University recognizes certain activities and events as legitimate reasons for absence from class.

Class Absence: Legitimate reasons for absence include, but are not limited to, death in the immediate family; documented illnesses, childbirth, and pregnancy (for as long as medically necessary); religious observance; academic field trips; participation in an approved performance or athletic event; military duties; direct participation in University disciplinary hearing; or jury duty. Nevertheless, the student bears the responsibility for providing appropriate documentation and for fulfilling all course expectations in a timely and responsible manner. Instructors will, if requested, without prejudice, provide students returning to class after a legitimate absence, with appropriate assistance and counsel about completing missed assignments and class material, depending on the nature of the work missed.

College Level Examination Program (CLEP)

The College Level Examination Program (CLEP) enables both traditional and non-traditional students to earn college credit by examination. Furthermore, CLEP assists students with prior experience to earn college credit by examination. Kutztown University administers both the General Examination and the Subject Examinations. Advanced standing and credits are awarded for each CLEP examination when the student earns an acceptable score as recognized by the University. The General Examination measures college-level achievement in five areas of the Liberal Arts and Sciences. These areas are: Mathematics, Humanities, Natural Sciences, Social Sciences and History. The CLEP Subject Examination measures achievement in specific college courses. These examinations emphasize principles, concepts, relationships, and applications of course materials.

Students may earn up to 21 credits from the battery of CLEP General Examinations in the following distributions: English – 3 credits; Mathematics – 3 credits; Humanities – 6 credits; Natural Sciences – 6 credits; and Social Sciences and History – 6 credits. For specific CLEP Subject Examinations and course credits, please contact the Testing Coordinator Office.

Students must go to the Testing Services Office, 201 Graduate Center Building, to arrange for CLEP testing. Those students who have already taken CLEP tests must have their original test scores forwarded to the Testing Coordinator for evaluation. There is an administrative fee for entering a CLEP score on a student's official record.

Course Repeat Policy

A student will be limited to a maximum total of six repeats. Repeats of a single course for grade improvement will be limited to a maximum of three repeats. When a student repeats a course, the credits are to be counted only once in determining the semester grade point average (GPA) and the total credits needed for graduation; the credits attempted are to be counted only once in determining the GPA, and the most recent grade in the course (regardless of whether it is higher or lower) will be used to calculate the semester GPA as well as the CGPA.

Course Withdrawals

When a student registers for classes, the student is responsible for those classes. To be relieved of this responsibility, the student must officially withdraw from those classes through the Registrar's Office. Failure to withdraw from a class for which a student registered, but is not attending, will result in a grade of "F" for that course.

Courses dropped during the first week of the semester will not be recorded on the student's permanent transcript unless the student withdraws from all his/her classes, in which case a grade of "W" will be awarded. Students may withdraw from a single course or a full semester of classes with a grade of "W" between the second and tenth week of

the semester. After the tenth week of the semester and through the last day of classes, a student who officially withdraws will receive a grade determined by the instructor.

The latest date for withdrawal from individual courses in a Summer Session will be published prior to the beginning of the specific session.

Credit by Examination

A full-time or part-time student who, by experience or training, acquired academic background or comprehension comparable to that required of students who complete a given course, with the written approval of the department chairperson and professor concerned, may submit to the Testing Services Office a request for the privilege of taking an examination in the course for the purpose of establishing credit for it (Challenge Examination). Appropriate forms are available in the Testing Services Office, 201 Graduate Center Building. A \$25.00 administrative fee is charged for each Challenge Examination. The chairperson of the department concerned and the professor who is designated will prepare and administer a special examination in the course within 60 calendar days from date of approval by Testing Services. After grading the examination "Pass" or "Fail," the chairperson and designated professor will report the result in writing to the Registrar. For a grade of "Pass," the student will earn the academic credits that ordinarily are earned by completing the course covered by the examination. If a grade of "Fail" is achieved, "Fail" will be entered for the course on the student's transcript and the student must take the course for credit. No re-examination may be taken.

Please Note the Following Limitations: Approval for credit by examination will not be granted for students who:

- failed the course in a classroom situation.
- failed a challenge examination and want to repeat credit by examination.
- do not have verification of required qualifications by department chairperson and faculty offering the examination.
- do not have the agreement of the department/faculty member to offer the examination.

Dean's List

To qualify for the Dean's List in a particular semester, a student must take at least 12 credits of graded courses, excluding courses not used in calculating the GPA. In order to be placed on the Dean's List for a particular semester, the student must achieve a GPA of 3.60 or higher.

Double Major

A student interested in a double major must: (1.) successfully complete all the required work under each major; (2.) successfully complete all courses in one of the two concomitant areas; (3.) fulfill all course prerequisites must be fulfilled; (4.) have

graduation approved by both departments or areas; and, (5.) have at least a 2.0 GPA in each major, unless the major has a specific GPA requirement.

Dual Degrees/Simultaneous Degrees

Undergraduate students at Kutztown University may apply to pursue a second undergraduate degree concurrently with the first, such as a B.S. in Computer Science and a B.A. in History. If admitted to a second degree program to receive both degrees at graduation, the student must earn at least 30 credits beyond the requirements of the baccalaureate program, with the fewest required credits, for a minimum of 150 credits. When a student is enrolled in dual degree programs: (1.) The student may not be graduated until both degrees are completed; (2.) All requirements for the curriculum of each degree must be satisfied; (3.) A course required in both degree programs does not have to be repeated for the second degree; (4.) All University requirements such as minimum GPA and number of credits taken at Kutztown University in the major must be met for each degree separately; (4.) Two diplomas will be awarded; and, (5.) A student wishing to earn a second baccalaureate degree after graduating should refer to the Second Degree Policy.

GPA Calculations and Transfer Grades

Except where mandated by Board of Governors Policy, the GPA will be calculated on the basis of courses taken at Kutztown University for which a letter grade is given. Grades for courses taken at other institutions cannot be used in the calculation of the GPA at Kutztown University, and the grades for courses taken at other institutions will not appear on official Kutztown University transcripts, except where mandated by Board of Governors policy.

Grading

The system of grading at Kutztown University for undergraduate students is as follows:
A (4.0) A- (3.67) B+ (3.33) B (3.0) B- (2.67) C+ (2.33) C (2.0) D (1.0)
F (0.0) FN (0.0) (unearned failing grade) FA (failing grade) PA (passing grade)
S (satisfactory grade) U (unsatisfactory grade) NG (no grade reported) NC (no credit)
W (withdrawn) M (military withdrawal) I (incomplete grade)

I (incomplete grade): The grade awarded to students who have not satisfied all requirements of a given course. For undergraduate students, all deficiencies must be removed by the end of the tenth week of the next semester. Failure to meet this requirement automatically changes the “I” grade to an “F” grade.

There is no A+, C-, D+, or D-. There is no “D” grade for student grading in 400- and 500-level courses.

Under Title IV of the Higher Education Act of 1965, the awarding of Federal student aid is based on the assumption that students will attend school for the entire period for which financial aid is awarded. A university is required to determine the earned and unearned

portions of Title IV aid as of the date the student ceased attendance based on the amount of time the student spent in attendance.

I

Graduation Requirements

Students who plan to complete requirements for the degree at the end of a current semester must apply for graduation through MyKU. Students who intend to participate in Commencement exercises must be within six credits or one internship of the total number of credits required for their program of study.

Independent Study

Independent Study is a course of study specific in nature, content, and level that is not provided as a regular course offering of study at the University. An Independent Study would be designed by a faculty member with possible input from the student in question. The Independent Study would be subject to the approval of the chairperson of the department in which the course of study is undertaken. The option of offering a course by Independent Study within a particular academic department must have been previously approved through the University curricular process. A student wishing to pursue a course by Independent Study should contact a faculty member interested in offering such a course or the department chairperson in the department in which the Independent Study would be taken.

Individualized Instruction

For graduate students, Individualized Instruction is only available after approval of degree candidacy and completion of 12 graduate credits. Professional credit students cannot register for an Individualized Instruction. In order for a student to request a course to be taught by Individualized Instruction, it must be a regular University course that is not scheduled to be taught that semester. In addition, it must be a required course in the student's program of study. A student may take only one course by Individualized Instruction per semester. A student may not repeat any course by Individualized Instruction for which the student originally received a grade of "D" or "F." The student initiates the request for an Individualized Instruction with the appropriate department chairperson. The course instructor, the appropriate department chairperson, and the appropriate dean must all approve that a course be taught by Individualized Instruction. The completed form must be submitted to the Registrar's Office by the last day of the Add/Drop of that semester. A student enrolled in a course under Individualized Instruction may expect to meet with the instructor for at least five contact hours per credit offered. Examinations and other work will be comparable to the requirements of the course when regularly offered.

Minors

Minor(s) are available on the following basis:

1. Each minor area requires between 18-21 credits.

2. Each department offering a minor determines the specific sequence of study that constitutes the minor.
3. The minor should reflect a minimum of six credits of advanced standing coursework. Exceptions to the advanced standing requirements may be granted on a case-by-case basis per request to the Chancellor.
4. A GPA of at least 2.00 is required in the minor.
5. In order to receive transcript recognition of a minor program, a student must complete half of the minor course work at Kutztown University.

Permission to Study at another College or University

Students wishing to study at another college and to transfer the credits earned to Kutztown University must obtain permission, in writing, prior to enrollment. The following conditions must be met: (1.) The college at which the student wishes to study must be a regionally accredited institution of higher education; (2.) The student must be currently enrolled and eligible for registration at Kutztown University the next semester; (3.) A student cannot repeat a course for credit at another institution for which the student earned a “D” or better at Kutztown University; and, (4.) Thirty (30) semester hours of the last sixty (60) semester hours of credit required for graduation must be completed at this institution. A minimum of thirty (30) semester hours must be taken at Kutztown University. Grades earned in courses taken at another institution will not be included in determining a student’s GPA since only grades earned at Kutztown University affect this average. However, a minimum grade of “C” must be earned at the other institution for the credit to be accepted at Kutztown University.

Portfolio Assessment

Portfolio assessment is an alternative vehicle for defining, demonstrating, and documenting college-level learning achieved outside the classroom. Students who have the appropriate reading and writing competencies may take a three-credit independent study course available in the Fall and Spring semesters. The course encompasses relevant academic content, skill development, and ongoing guidance during the process of developing a learning portfolio. After completion of the course, students may submit the learning portfolio for evaluation for possible college credit. Evaluation of the portfolio is not part of the Independent Study course. The evaluation is done by faculty experts in the academic disciplines reflected by the student’s learning and is subject to a separate assessment fee. For further information contact the Office of the Registrar.

Residency Requirements

All first baccalaureate degree students must complete at least 30 of their last 60 credits at Kutztown University and at least 50% of their major credits (including required cognate courses) at Kutztown University in order to meet graduation residency requirements. Students are not required to take more than 30 credits.

Second Degrees

A student may pursue a second baccalaureate degree after earning a first degree either at Kutztown University or another institution. This can be achieved in one of two ways: (1.) by completing the two programs at Kutztown University simultaneously (see Dual Degrees/Simultaneous Degrees) or (2.) after having been awarded a baccalaureate degree from Kutztown University or another institution, by completing a second program of study and a minimum of 30 new credits to total at least 150 credit hours earned. Students must be admitted to the degree through the undergraduate admissions process.

In addition, a student must complete at least 50% of the courses in each of the two major or minor programs at Kutztown University. Any course required in both degree programs does not have to be repeated for the second degree.

Ten Year Rule

Kutztown University welcomes the return to higher education of students who for various reasons did not complete their degrees. Such students should be aware that courses taken in their major discipline ten years or more prior to the resumption of study perhaps might not be counted toward graduation because such courses may no longer be considered current or may no longer be required for the degree. The Registrar, in consultation with the appropriate department chair, will determine the acceptability of these credits.

Transfer Credits

Advanced standing credit will be given only for equivalent courses completed in regionally accredited degree-granting institutions of a collegiate level. No student may obtain a degree without a minimum residence of one year (30 semester hours) at Kutztown University. All baccalaureate degree students are required to take at least 30 of their last 60 credits and at least fifty percent (50%) of their major courses at Kutztown University.

Transfer Credits in Major/Minor

In order to graduate from a particular major/minor at Kutztown University, students transferring from any other institution of higher education to Kutztown University will be required to complete at least half of the minimum credits required in their major/minor field at Kutztown University. The courses to be taken to fulfill this requirement must be at the upper level. In some cases, in order to comply with this regulation, a student may be required to complete more than 120 semester hours for the degree.

University Withdrawals

Any student dropping out of the University prior to the end of any academic term must officially withdraw. This is accomplished by completing a formal withdrawal form available in the Registrar's Office. Failure to follow this procedure when withdrawing from the University may result in failing grades in all courses being taken at the time of withdrawal. The date the Registrar is notified in writing, with the student's original signature, is the official date of withdrawal. If the student completes the withdrawal

process with the Registrar's Office prior to the two weeks before the beginning of final examinations, then the student will receive "W" grades for all courses. If the student completes the withdrawal process with the Registrar's Office within two weeks of the beginning of final examinations, then the student will receive "F" grades for all courses when withdrawing from the University. A student who fails to formally withdraw can apply to the Undergraduate Exceptions Committee, claiming extenuating circumstances. The Undergraduate Exceptions Committee may then award the student a grade of "W" for all courses being taken when withdrawing from the University.

Veteran and Active Duty Military – Course Scheduling

The University will provide veteran students, active duty service members, and individuals using veteran's educational benefits under the GI Bill with the opportunity to register for classes earlier than students who do not qualify to enable these students a better chance of enrolling in a full course load and to maximize veterans education benefits before they expire. A veteran student who is not receiving benefits but who has self-identified as a veteran is responsible for providing documentation (e.g., DD214 Member 4 copy) to the Kutztown University Office of Veterans Services showing that he or she was discharged or released from such service under conditions other than "dishonorable," in order to be eligible for early registration.

Student Life

Association of Campus Events (ACE)

Students have diverse opportunities in which to invest leisure time and to learn and develop outside the formal academic environment. Activities are conducted for the personal development of those who initiate, plan and engage in them, and as a varied co-curricular adjunct to academic programs.

The Association of Campus Events (ACE) under the auspices of the Office for Student Involvement, consistently produces a wide array of lectures by prominent personalities, concerts by contemporary musicians, performances by professional artists and actors, movies, art exhibitions, excursions, panel discussions and special activities. Such programs are of a diverse nature to permit a maximum number of students to choose those suited to specific interests and needs. The Association of Campus Events is located in Room 166E of the Student Union Building and can be reached by dialing (610) 683-4097.

Athletics

The University is a member of the Pennsylvania State Athletic Conference, and competes at the NCAA Division II level. Varsity schedules for men include football, cross country, basketball, wrestling, tennis, indoor and outdoor track and field, and baseball. Women compete in tennis, field hockey, volleyball, softball, cross country, swimming, soccer, indoor and outdoor track and field, golf, basketball, bowling and lacrosse at the inter-

collegiate level. Interested students should contact the coach directly. A wide offering of club, recreational, and intramural sports is provided for both men and women through the Office of Recreational Services.

Career Development Center

One function of a college education is to foster the growth and development of the student in preparation for a meaningful and satisfying life after college. The Career Development Center helps students to enhance self-knowledge, design their educational and career plans, and build connections to secure meaningful experiences. They facilitate student learning and development by empowering them to actively pursue professionally rewarding lives. The following resources and services are provided to help students work on their career development plan and prepare for professional opportunities after graduation:

Career Programs and Workshops - The staff offers a variety of programs in collaboration with academic departments, campus clubs and organizations, and residence hall groups.

- Workshops on designing one's career path, internship and job-search strategies including using social media, interviewing strategies, salary negotiation, graduate school selection, and workplace and dining etiquette are also offered.
- Employer panels and networking sessions are offered to educate students about career paths and industries, employers, and to provide the opportunity to network with professionals.
- Practice/mock interviews with area recruiters.
- Walk-in hours are offered for in-person resume and cover letter reviews.
- A career certificate program is offered to encourage students to work on their career development plan.

Individual Counseling/Coaching - Students are encouraged to meet with a career coach to discuss their major selection, career development plan and goals, search strategies for internships and jobs, and effective interviewing.

Career Tests - Helping students identify their skills, abilities, and interests is key to a successful college experience. To help students in this area, a variety of assessment instruments are offered including the Career Key, Kuder Journey and the Strong Interest Inventory.

Internships and Full-time Positions - To assist students with their search, the Career Development Center offers an on-line career management system for students to view postings and apply.

On-campus Interviewing and Career Fairs - Staff members work with business, industrial, government, and educational representatives who visit each year to present their organizations at fairs and to interview with students on campus. A graduate school fair is also offered yearly.

Career Resources - Numerous online and in-print resources are available to students.

Disability Services

Disability Services strives to create an accessible living and learning environment for students and employees with disabilities. Self-disclosing and requesting accommodations is voluntary although necessary in order to provide reasonable accommodations on an individual basis. Students seeking accommodations are strongly encouraged to notify Disability Services and provide all supporting documentation early to allow adequate time for planning. In general, documentation should not be older than three years. For more information concerning specific documentation guidelines, please refer to the Disability Services website at www.kutztown.edu/DSO. For more information about Disability Services, please contact: Disability Services Office, 215 Stratton Administration Building, P.O. Box 730, Kutztown, PA 19530. Telephone: (610) 683-4108, TDD: (610) 683-4499, Fax: (610) 683-1520.

General Regulations and Conduct

Specific regulations regarding organizations, conduct, and discipline of students and related matters are to be found in the student handbook, [*The Key*](#).

Health and Wellness Center

The Health and Wellness Center is located on the first floor of Beck Hall. The Center includes the following units:

- Clinical Services
- Counseling Services
- Health Promotion Services
- Alcohol and Other Drug Programs and Services
- Medical Records
- Wellness Resource Room

The Center is accredited by the Accreditation Association for Ambulatory Health Care (AAAHC) and the International Association for Counseling Services, Inc. (IACS). The units within the Center support the academic mission by providing quality health care, health promotion, counseling, and prevention services to the campus community. The Center is open during the weekdays from 8:00 a.m. until 4:00 p.m. Counseling Services are extended to 6:00 p.m. on Tuesdays. Clinical Services is open Monday through Friday 8:00 a.m. to 6:00 p.m.

All matriculated students who have submitted a health record and paid a health center fee are eligible for services. Services include routine illness/injury care. Emergency care is limited to first aid; all urgent medical and mental health issues are referred to community providers. In addition to departmental outreach programs, the Wellness Center provides a variety of health promotion activities and resources during open hours for students,

staff, and faculty. Students are encouraged to schedule nursing and physician appointments.

Summer hours of operations are limited to nursing appointments; physicians are unavailable for appointments. A “self-care” station is available for those seeking over-the-counter medications. Although nursing and physician appointments are available without additional charges, some specialized services require a nominal fee (prescription medications, laboratory testing, etc.) and will be charged to the student’s account. For further information about clinic services, call (610) 683-4082, extension 2, or review the web site at www.kutztown.edu/healthandwellness.

Housing and Dining Services

Campus Residence Halls

Kutztown University offers a multi-faceted residence hall system with a living-learning environment as its foundation. The Housing and Residential Services Office, working in concert with student staff, hall councils, and other University offices, provides educational and personal growth opportunities by offering educational and social programs in the residence halls and apartments. In addition, students are afforded the opportunity to develop their leadership skills through participation on residence hall councils, the Residence Hall Association, and the National Residence Hall Honorary. Daily advisement and guidance are provided by in staff and trained student staff.

Facilities and Security

Each Kutztown University residence hall has a 24-hour desk operation that provides security, information, and equipment checkout. Desks are staffed by Residence Life – trained student desk receptionists. Other residence hall features include a multipurpose/recreation room, fully-equipped kitchens, television rooms, study lounges and laundry machines. In addition, resident students have access to game tables, DVD’s, computers, board games, and much more. These amenities are provided by individual hall councils.

Residence Hall Technology

Kutztown University residence hall system offers high speed wifi access in each of the rooms and common areas. In addition each hall also offers a wired internet access port for each resident as well a landline telephone system, and digital cable service. These amenities provide basic cable television service to each student room, allow each student direct access through the student’s personal computer to computer networked services and the World Wide Web, and improved telephone service to all resident students.

Lifestyle and Visitation

Kutztown University’s 11 residence halls and two apartment villages provide a variety of living and lifestyle options. Included in these options are both coed and single gender housing

Housing Policies

The Kutztown University residence hall system provides on-campus housing for over 4,000 students. Freshmen and sophomores are required to live on campus unless an [exception](#) is provided.

All resident students, except Golden Bear Village and Honors Hall residents, are required to participate in the on-campus meal plan. A number of meal plan selections are available to meet resident student needs.

The Kutztown University residence hall system is closed during recess periods. Housing will be available to international and exchange students, and student teachers, at an additional cost, during break periods. Please contact the Residence Life and Housing and Dining Services Office concerning break housing policies.

Housing Process

For further information, please contact the Residence Life and Housing and Dining Service Office at (610) 683-4027 or housing@kutztown.edu Website: www.kutztown.edu/housing

Housing License

All students offered on-campus housing must sign a housing license for the accommodations provided. Signed licenses must be on file with the Housing Office prior to student occupancy of a room.

Off-Campus Housing

The Dean of Students Office maintains a web site of available off-campus housing locations for students. This listing is available at och.kutztown.edu. The University does not approve, recommend, inspect, or regulate off-campus housing. Students make all arrangements independently. Leases or rental agreements are a private arrangement between the tenants and a property owner. The Borough of Kutztown and other municipalities, through housing codes, licenses, inspects, and regulates all rental properties within its jurisdiction. These off-campus locations are periodically inspected by Housing Code Enforcement Officers.

Dining Services

Dining Services offers a variety of meal plans that are categorized by meal type. The types include seven day and five day plans, Block plans and Dining Flex plans. Any student registered for classes may purchase a meal plan. Students living in the residence halls (except Golden Bear Village Apartments, Honors Building, and the efficiency Apartments in Dixon Hall) must select a seven day meal plan.

Meal Plan Options

Kutztown University meal plans offer flexibility and freedom to eat what, where, and when you want with the convenience of two all-you-care-to-eat dining and seven retail locations across campus. The follow meal plans are available:

The follow meal plans offer seven day unlimited access to the South Dining Hall and Cub Café:

MyTime Dining Diamond includes \$250 Flex, 16 guest meal swipes
MyTime Dining Platinum includes \$150 Flex, 16 guest meal swipes
MyTime Dining Gold includes \$50 Flex, 8 guest meal swipes

The follow meal plans offer five day (M-F) unlimited access to the South Dining Hall and Cub Café:

MyTime Dining Maroon Plus includes \$200 Flex, five guest meal swipes
MyTime Dining Maroon includes \$50 Flex, five guest meal swipes

Additional meal plans include (meal swipes to be used at the South Dining Hall or Cub Café):

MyTime Dining 150 Block includes 150 Meal swipes and \$250 Flex, five guest meal swipes
MyTime Dining 75 Block includes 75 Meal swipes and \$100 Flex, five guest meal swipes
MyTime \$500 Flex Plan includes \$500 in Flex to use at any location
MyTime \$250 Flex Plan includes \$250 in Flex to use at any location

Dining Flex Dollars

Students have the option to have a dining flex dollar “declining debit” account. With a dining flex dollar account, you can purchase food at any of our dining locations on campus. Meal plans already include dining flex dollars. If you do not have a meal plan, you may start a dining flex dollar account with a deposit of \$25.00. Additional flex dollars may be added to all dining flex dollar accounts in increments of \$25.00. Unused dining flex balances at the end of the fall semester will roll over to the spring semester. However, at the end of the spring semester, any remaining dining flex dollars are non-refundable.

Kutztown University Student Services, Inc. (KUSSE)

Kutztown University Student Services, Inc. (KUSSE) is an independent, non-profit affiliate of Kutztown University. KUSSE works with the University and Student Government Board (SGB) to provide free and low cost services to students and student-led organizations. KUSSE offers services to students through three operating divisions including the KUSSE Service Center, KU Campus Store and Dixon Marketplace. For

additional information, please visit the KUSSI website at <https://www.kutztown.edu/kussi>.

KUSSI Service Center

The KUSSI Service Center, in MSU 171, offers accounting and auxiliary services to students and student-led organizations. KUSSI Service Center may be contacted at (610) 683-4090. The SGA Accounting Office provides private accounts and accounting services (deposits, purchase orders, check requests, cash boxes, etc.) to all registered student organizations on campus. In addition, SGA Accounting office supports student organizations through the SGA budgeting process and funding initiatives. This office also provides SGA vehicle rentals and copier services for Maroon status (registered) and Gold status (sponsored) organizations.

Auxiliary Services office manages a variety of student-related services, including campus laundry facilities, snack and beverage vending machines, Micro-Fridge rentals, graduation regalia, Grad Fest, senior portraits.

KU Campus Store, a division of KUSSI, is a one-stop shopping location for school supplies and personal needs. The store offers new and used textbooks, rental and digital textbooks, as well as convenient ordering and payment options. The store also offers a book voucher program to purchase course materials using financial aid obtained through the Financial Aid Office the first two weeks of each semester. KU Campus Store provides art supplies, school supplies, trade books, computers, software and technology accessories, snack foods, health and beauty aids, greeting cards, and stationery and services such as money orders, check cashing, shipping, and daily textbook sell back. KU Campus Store is conveniently located on the lower level of the McFarland Student Union. For additional information, please contact the store at (610) 683-4099 or shop online at www.kubstore.com.

The Dixon Marketplace, a division of KUSSI, is a marketplace of student goods, including convenience items, health and beauty aids, dorm and school supplies, logo apparel, and trendy gifts. Students are able to take advantage of daily services such as copying, faxing, and photo processing. Dixon Marketplace is located on the ground level of the Dixon Residence Hall and is open until midnight, seven days a week. For additional information, please contact Dixon Marketplace at (610) 683-4966.

Office of Student Involvement Services

Recognizing the value of co-curricular experiences as part of the general education of students, Kutztown University promotes and encourages student involvement outside the four walls of the classroom. By challenging and supporting them to reach their unique potentials, the University helps students become active, responsible, and involved leaders in today's society.

Through the Office for Student Involvement Services, the University offers a variety of resources and services designed to support student involvement. As a result, the Office oversees the registration and maintenance of all student organizations. Whether seeking to become involved in programs that are career-oriented, athletic, religious, literary, artistic, social, or political in nature, students can find a student organization to match their interests and are encouraged to take advantage of these experiential opportunities to prepare for post-graduation employment or education. The Office for Student Involvement Services is located in 153 McFarland Student Union and can be reached at (610) 683-1383.

Public Safety and Police Services

The Department of Public Safety and Police Services has as its overall functions the protection of life and property, traffic and parking control and enforcement, and the maintenance of order and discipline among students, employees, and visitors. The Department is also responsible for the coordination of the shuttle bus system for the campus. In addition to these services, the department has engravers to mark personal property for easy identification, a jump box service for dead batteries and on-campus safety escorts are provided 24 hours a day. To request a safety escort, dial 610 683-4002 or use any of the emergency phones.

In addition, Public Safety and Police Services conducts many service programs, such as CPR and First Aid, Rape Aggression Defense System, and Crime Prevention. The Department is located in the basement of Old Main. Its non-emergency phone number is (610) 683-4002 and the emergency number is (610) 683-4001.

Rohrbach Library

The Rohrbach Library provides a wide range of resources and services to its patrons, such as access to full-text databases, research related services, reserving study rooms, laptops and other equipment, interlibrary loan access, computer labs and printing stations. The Library houses various collections of books, DVDs, and electronic resources. Our electronic resources include access to over 200,000 EBooks and full-text articles located in one of our 200+ searchable databases that students can access from on and off campus. Interlibrary loan is available to obtain books and periodical articles not owned by Kutztown University from libraries throughout the United States. Students can also find a number of computer labs and printing stations available for use as well as collaborative learning spaces with technology which are available for students and faculty to use while working on assignments or for classroom instruction.

The library also houses a café and outdoor balcony for its students. In addition, the Rohrbach Library has their very own creative space called STEAMworks that contains remarkable equipment, such as 3D printers, poster size printers, button makers, sewing machines, craft supplies, and even virtual reality technologies. Rohrbach also houses other important units that include Curriculum Materials Center (CMC), Center for Academic Success and Achievement (CASA), Tutoring, and the Writing Center.

The Rohrbach Library staff is available to help students with a wide variety of services. Our research services office provides students with one on one research consultations with librarians throughout the semester. Librarians meet frequently with classes from all areas of curriculum to discuss specialized research tools and teach over 200 information literacy classes per year to help students use the library for class assignments. Your library's faculty are here 350 combined hours a week to assist you with your library needs.

Rohrbach Library staff encourage students, faculty, and other patrons to become familiar with library services and collections and to take advantage of this important intellectual resource as they participate in the various programs of study at the University.

*The Curriculum Materials Center (CMC) contains pre-K through grade 12 resources for pre-service and in-service teachers. The CMC's main mission is to support the College of Education students and faculty by maintaining a representative collection of curriculum-related materials commonly used in U.S. public schools.

The collection includes books (textbooks, activity books, and other teacher-focused books), kits (diagnostic tests, manipulatives, games, etc.), and teaching posters. Adjacent to the CMC is the Library Science Collection of children's literature. Together these collections offer KU students and faculty over 40,000 educational items for use in planning, learning, and teaching.

The collections are overseen by the education librarian, whose office is located in the area. In addition, there are 13 open tables that are used when classes come to use the collections during class time or for individuals and groups to use for working on assignments, and there is a room that the librarian uses for teaching COE classes or groups about the library's resources.

Student Government Association (SGA)

All students who pay the Student Activity Fee are members of the Student Government Association (SGA). From their membership, the SGA selects representatives who form the Student Government Board (SGB). The Board presents student opinion and provides a forum for discussion in matters affecting campus life. In addition, it allocates appropriations from the activity fund to various organizations and programs, recruits students to become involved in the University governance structure, and collaborates with other constituent groups to develop policies that affect student life. Student Government is also affiliated with KU Student Services, Inc.

Vehicle Registration

Vehicle registration with the Department of Public Safety is required of all University students and staff. A valid driver's license and vehicle ownership registration must be presented to the dispatcher. A decal will be issued immediately and must be displayed properly on the registered vehicle at all times when it is parked on campus.

Veterans Affairs

The specific needs of the campus subgroup consisting of students who are considered “Military-Affiliated” (Veterans of Military Service, Active Duty Military, and Military Dependents) are the responsibility of the Office of Veterans Affairs. The Veterans Affairs Office assists students using VA educational benefits with the paperwork required to insure that appropriate benefits are received on time, and also provides advisement and referral services for all military-affiliated students, on a variety of special concerns and personal problems.

ACADEMIC DEGREES & PROGRAMS

Kutztown offers more than 100 undergraduate-degree majors, minors, and concentrations in four major colleges: College of Liberal Arts & Sciences, College of Business, College of Education, and College of Visual & Performing Arts.

COLLEGE OF BUSINESS

The Kutztown University College of Business, part of the Pennsylvania State System of Higher Education, emphasizes teaching and learning enriched by applied and pedagogical scholarship and community engagement. We serve students from diverse backgrounds, the business community, and other stakeholders of Southeastern Pennsylvania and the surrounding areas. Our Small Business Development Center assists in this effort and promotes economic development throughout the area. Our undergraduate and graduate degree programs provide high quality, affordable business education. Faculty lead and engage students to prepare them for intellectual, social, ethical, and career challenges.

-Dr. Anne Carroll, Dean

Bachelor of Science

B.S. Leisure & Sport Studies

B.S. Sport Management

Bachelor of Science in Business Administration

B.S.B.A. Accounting

B.S.B.A. Finance (General)

B.S.B.A. Management

B.S.B.A. Marketing

B.S.B.A. Personal Financial Planning

Minors

Business

Coaching/Athletic Administration

Economics

Fitness Administration

Supply Chain Management and Logistics



COLLEGE OF BUSINESS • DEPARTMENT OF SPORT MANAGEMENT & LEADERSHIP STUDIES

Program Code: UCOBLSS

Version: 2118 – Fall 2011

Effective Date: August 30, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	
A. Oral Communication: COM 010 or above *				
COURSE:	3			
B. Written Communication: ENG 023, 024, or 025 *				
COURSE:	3			
C. Mathematics: MAT 017 or above *				
COURSE:	3			
D. Wellness: any 3-credit HEA course				
COURSE:	3			

*Must complete COM 010, ENG 023, and MAT 017 with a grade of "C" or higher.

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, CHI, FRE, GER, or SPA				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	GR	CAC
A. Writing Intensive (WI) (9 credits)			
COURSE:	3		WI
COURSE:	3		WI
COURSE:	3		WI
B. Quantitative Literacy (QL) (3 credits) QH Computer-Intensive (CP) (3 credits)			
COURSE:	3		QL
C. Visual Literacy (VL) (3 credits) QH Communication-Intensive (CM) (3 credits)			
COURSE:	3		CM
D. Cultural Diversity (CD) (3 credits)			
COURSE:	3		CD
E. Critical Thinking (CT) (3 credits)			
COURSE:	3		CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION** (33 credits)	RC	CR	GR	CAC
A. Natural Science or Mathematics (3 credits)				
1. Elective: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, PHY, MAR, or GEG (see note below); MAT; SPT 201, or SPT 216				
COURSE:	3			
B. Social Science (9 credits): Any course with prefix ANT, CRJ, ECO, GEG (see note below), HIS, INT, MCS, PSY, POL, SOC, SWK, SPT 205, SPT 226 or SPT 270				
1. Elective				
COURSE:	3			
2. Elective				
COURSE:	3			
3. Elective				
COURSE:	3			

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

NOTE: LSS majors may NOT use the required SPT courses (SPT 270 and 320) in IV.B. and IV.C.

	RC	CR	GR	CAC
C. Humanities (6 credits)				
1. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, COM, THE, WRI, WGS, CHI, FRE, GER, or SPA, or SPT 320				
COURSE:	3			
2. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, COM, THE, WRI, WGS, CHI, FRE, GER, or SPA, or SPT 320				
COURSE:	3			
D. Free Electives (15 credits): Select any university course.				
COURSE:	3			

**Students in specific majors in the College of Business may have specific course requirements that fall under College Distribution requirements. Students should consult the major check sheets and/or their advisors prior to course registration.



COLLEGE OF BUSINESS • BS • LEISURE & SPORT STUDIES

Program Code: UCoblSS

Version: 2138 – Fall 2013

Effective Date: August 26, 2013

LEISURE & SPORT STUDIES PROGRAM

V. MAJOR PROGRAM (60 credits)

A. Required Courses (45-51 credits):	RC	CR	GR	CAC
1. SPT 160 Intro to Sport Management	3			
2. SPT 195 Accounting Survey for LSS or PRO 120 Accounting Survey for PS	3			
3. SPT 212 Sport PR & Communication	3			
4. SPT 230 Leadership and Team Building	3			
5. SPT 260 Principles of Sport Finance ¹	3			
6. SPT 265 Gov.& Organization in Sport	3			
7. SPT 270 Sport & Society	3			
8. SPT 285 Sport Marketing & Sponsorship	3			
9. SPT 290 Fundamentals of Sport Law	3			
10. SPT 305 Emergency Care and Risk Man	3			
11. SPT 320 Sport Ethics	3			
12. SPT 330 Event & Facility Management ¹	3			
13. SPT 345 Sport in a Global Marketplace ¹	3			
14. SPT 350 Internship in Sport Mgt. ^{1,2}	6-12			

B. Free Electives (9-15 credits):	CR	GR	CAC
COURSE:			

GRADUATION REQUIREMENTS

Semester hours General Education	
Semester hours LSS Program	
Semester hours electives	
TOTAL semester hours (120 minimum)	
All LSS courses with a SPT prefix must be passed with a grade of "C" or higher	Yes No
Minimum QPA of 2.0	Yes No

NOTES: If you register for a course without the prerequisites you will be dropped from the course. SPT 160 is a prerequisite for all LSS required courses.

- Prerequisites (in parenthesis) must be satisfied.
SPT 260 (195), SPT 330 (285 & 290), SPT 345 (285), SPT 350 (330).
- Students are required to attend a mandatory intern meeting a full semester prior to taking SPT 350 Internship in Sport Management.

Suggested Free Elective Options

PEC 011-095 Physical Activity Classes (no more than 3)
SPT 111 The American Woman in Sport
SPT 120 Personal Nutrition
SPT 145 Lifeguard Training
SPT 201 Scientific Basis for Human Movement
SPT 205 Sport Behavior
SPT 216 Exercise Physiology (prerequisite SPT 201)
SPT 222 Fundamentals of Coaching
SPT 226 History of Sport
SPT 236 Personal Selling in Sport
SPT 240 Foundations of Health Promotion (prerequisite HEA 102)
SPT 245 Water Safety Instructor
SPT 250 Methods of Group Fitness Instruction
SPT 275 Statistics in Sport (prerequisite MATH 017 or higher)
SPT 315 Prevention and Care of Athletic Injuries
SPT 325 Sport Consumerism (prerequisite SPT 160 & 285)
SPT 335 Methods and Evaluation in Athletics (prerequisite SPT 222)
SPT 340 Coaching Internship (prerequisite SPT 222)
SPT 366 Personal Fitness Trainer
SPT 370 Selected Topics in Physical Education and Sport Studies
SPT 372 Selected Topics in Leisure and Sport Studies
SPT 375 Research Methods for Sport Management
SPT 385 Senior Seminar in Coaching and Athletic Administration
Select any University courses



COLLEGE OF BUSINESS • DEPARTMENT OF SPORT MANAGEMENT & LEADERSHIP STUDIES

Program Code: UCoblSS

Version: 2118 – Fall 2011

Effective Date: August 30, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above *			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025 *			
COURSE:	3		
C. Mathematics: MAT 017 or above *			
COURSE:	3		
D. Wellness: any 3-credit HEA course			
COURSE:	3		

*Must complete COM 010, ENG 023, and MAT 017 with a grade of "C" or higher.

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, CHI, FRE, GER, or SPA				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	GR	CAC
A. Writing Intensive (WI) (9 credits)			
COURSE:	3		WI
COURSE:	3		WI
COURSE:	3		WI
B. Quantitative Literacy (QL) (3 credits) 2011 Computer-Intensive (CP) (3 credits)			
COURSE:	3		QL
C. Visual Literacy (VL) (3 credits) 2011 Communication-Intensive (CM) (3 credits)			
COURSE:	3		CM
D. Cultural Diversity (CD) (3 credits)			
COURSE:	3		CD
E. Critical Thinking (CT) (3 credits)			
COURSE:	3		CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION** (33 credits)	RC	CR	GR	CAC
A. Natural Science or Mathematics (3 credits)				
1. Elective: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, PHY, MAR, or GEG (see note below); MAT; SPT 201, or SPT 216				
COURSE:	3			
B. Social Science (9 credits): Any course with prefix ANT, CRJ, ECO, GEG (see note below), HIS, INT, MCS, PSY, POL, SOC, SWK, SPT 205, SPT 226 or SPT 270				
1. Elective				
COURSE:	3			
2. Elective				
COURSE:	3			
3. Elective				
COURSE:	3			

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

NOTE: ENG 022 and MAT 003 are developmental courses which can only be counted as free electives.

	RC	CR	GR	CAC
C. Humanities (6 credits)				
1. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, COM, THE, WRI, WGS, CHI, FRE, GER, or SPA, or SPT 320				
COURSE:	3			
2. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, COM, THE, WRI, WGS, CHI, FRE, GER, or SPA, or SPT 320				
COURSE:	3			
D. Free Electives (15 credits): Select any university course.				
COURSE:	3			

** Students in specific majors in the College of Business may have specific course requirements that fall under College Distribution requirements. Students should consult the major check sheets and/or their advisors prior to course registration.

NOTE: SM majors may NOT use the required SPT courses (SPT 270 and 320) in IV.B. and IV.C.



COLLEGE OF BUSINESS • BS • SPORT MANAGEMENT

Program Code: UCOBLSS

Version: 2178 – Fall 2017

Effective Date: August 28, 2017

SPORT MANAGEMENT PROGRAM

V. MAJOR PROGRAM (60 credits)

A. Required Courses (48-54 credits):	RC	CR	GR	CAC
1. SPT 160 Intro to Sport Management	3			
2. SPT 195 Accounting Survey for LSS or PRO 120 Accounting Survey for PS	3			
3. SPT 212 Sport PR & Communication	3			
4. SPT 230 Leadership and Team Building	3			
5. SPT 236 Personal Selling in Sport	3			
6. SPT 260 Principles of Sport Finance ¹	3			
7. SPT 265 Gov. & Organization in Sport	3			
8. SPT 270 Sport & Society	3			
9. SPT 285 Sport Marketing & Sponsorship	3			
10. SPT 290 Fundamentals of Sport Law	3			
11. SPT 305 Emergency Care and Risk Man	3			
12. SPT 320 Sport Ethics	3			
13. SPT 330 Event & Facility Management ¹	3			
14. SPT 345 Sport in a Global Marketplace ¹	3			
15. SPT 350 Internship in Sport Mgt. ^{1, 2}	6-12			

GRADUATION REQUIREMENTS

Semester hours General Education		
Semester hours SM Program		
Semester hours electives		
TOTAL semester hours (120 minimum)		
All SPT/PRO/PEC courses used in Category V, Sections A&B must be passed with a grade of "C" or higher	Yes	No
Minimum QPA of 2.0	Yes	No

NOTES: If you register for a course without the prerequisites, you will be dropped from the course. SPT 160 is a prerequisite for all SM required courses.

- Prerequisites (in parenthesis) must be satisfied.
SPT 260 (195), SPT 330 (285 & 290), SPT 345 (285), SPT 350 (330).
- Students are required to attend a mandatory intern meeting a full semester prior to taking SPT 350 Internship in Sport Management.

Suggested Free Elective Options

PEC 011-095 Physical Activity Classes (no more than 3)
SPT 111 The American Woman in Sport
SPT 120 Personal Nutrition
SPT 145 Lifeguard Training
SPT 201 Scientific Basis for Human Movement
SPT 205 Sport Behavior
SPT 216 Exercise Physiology (SPT 201)
SPT 222 Fundamentals of Coaching
SPT 226 History of Sport
SPT 240 Foundations of Health Promotion (HEA 102)
SPT 250 Methods of Group Fitness Instruction
SPT 275 Statistics in Sport (MATH 017 or higher)
SPT 300 Applied Sport Psychology (SPT 205)
SPT 310 Fitness Assessment and Exercise Programming (SPT201)
SPT 312 Intercollegiate Athletic Administration
SPT 315 Prevention and Care of Athletic Injuries
SPT 325 Sport Consumerism (SPT 160 & 285)
SPT 335 Methods and Evaluation in Athletics (SPT 222)
SPT 340 Coaching Internship (SPT 222)
SPT 366 Personal Fitness Trainer
SPT 372 Selected Topics in Leisure and Sport Studies
SPT 375 Research Methods for Sport Management
SPT 385 Senior Seminar in Coaching and Athletic Administration
Select any University courses

B. Free Electives (6-12 credits):

	CR	GR	CAC
COURSE:			

*Prerequisites (in parenthesis)



COLLEGE OF BUSINESS • BSBA • ACCOUNTING

Program Code: UCOBACC

Version Number: 2118

Effective Date: FALL 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics:			
COURSE: MAT 121	3		
D. Wellness: Any 3 credit HEA			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION * (33 credits)	RC	CR	GR	CAC
A. Natural Science or Mathematics (3 credits)				
1. Elective: MAT 105, 122, or 140				
COURSE:	3			
B. Social Science (9 credits): Any course with prefix ANT, CRJ, ECO, GEG (see note below), HIS, INT, MCS, PSY, POL, SOC, SWK, SPT 205, SPT 226, or SPT 270				
1. Elective				
COURSE: ECO 011 MACRO-ECONOMICS	3			
2. Elective				
COURSE: ECO 012 MICRO-ECONOMICS	3			
3. Elective				
COURSE:	3			

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

	RC	CR	GR	CAC
C. Humanities (6 credits)				
1. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295				
COURSE:	3			
2. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295				
COURSE:	3			
D. Free Electives (15 credits): Select any university course; however, no business courses can be used in this category. (except ENG 21)				
COURSE:	3			

* Students in specific majors in the College of Business may have specific course requirements that fall under College Distribution requirements. Students should consult this major check sheets and/or their advisors prior to course registration.
 Note: ENG 21 will not count toward graduation requirements.



COLLEGE OF BUSINESS • BSBA • FINANCE

Program Code: **UCOBFIN**

Version Number: **2118**

Effective Date: **FALL 2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics:			
COURSE: MAT 121	3		
D. Wellness: Any 3 credit HEA			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION* (33 credits)	RC	CR	GR	CAC
A. Natural Science or Mathematics (3 credits)				
1. Elective: MAT 122 or MAT 140				
COURSE:	3			
B. Social Science (9 credits): Any course with prefix ANT, CRJ, ECO, GEG (see note below), HIS, INT, MCS, PSY, POL, SOC, SWK, PED 205, PED 226, or PED 270				
1. Elective				
COURSE: ECO 011 MACRO-ECONOMICS	3			
2. Elective				
COURSE: ECO 012 MICRO-ECONOMICS	3			
3. Elective				
COURSE:	3			

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

	RC	CR	GR	CAC
C. Humanities (6 credits)				
1. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295				
COURSE:	3			
2. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295				
COURSE:	3			
D. Free Electives (15 credits): Any university course; however, no business courses can be used in this category. (Except ENG 21)				
COURSE:	3			

* Students in specific majors in the College of Business may have specific course requirements that fall under College Distribution requirements. Students should consult this major check sheets and/or their advisors prior to course registration.
 Note: ENG 21 will not count toward graduation requirements.



COLLEGE OF BUSINESS • BSBA • FINANCE

Program Code: UCBOFIN

Version Number: **2178**

Effective Date: August 28, 2017

FINANCE PROGRAM (General Track)

V. MAJOR PROGRAM (60 credits)

	RC	CR	GR
A. Business Core (15 credits):			
1. ACC 121 Financial Accounting	3		
2. ACC 122 Managerial Accounting (Completion of ACC 121 & BUS 171CP)	3		
3. BUS 120 Business Statistics (Completion of a "C" or better in MAT 105 or MAT 121)	3		
4. BUS 131 Business Law I	3		
5. BUS 171CP Business Info. Systems	3		
B. Business Common Courses (15 credits):			
1. MKT 210 Principles of Marketing (Completion of 42 credits, ECO 11 and ECO 12)	3		
2. MGM 210 Principles of Management (Completion of 42 credits, COM 10 & ENG 23)	3		
3. FIN 350QL Financial Management (completion of business core with a 2.0 gpa)	3		
4. MGM 351 Operations Management (completion of business core with a 2.0 gpa & MGM 210)	3		
5. MGM 399CTWI Bus. Strategy & Policy (Completion of MGM 351, FIN 350QL, 84 credits and senior year)	3		
C. Required Courses (18 credits): (completion of business core with a 2.0 gpa)			
1. FIN 351 Personal Financial Planning	3		
2. FIN 354 Investments (completion of FIN 350)	3		
3. FIN 355 Investment Portfolio Mgt. (completion of FIN 354 and MAT 122 or MAT 181)	3		
4. FIN 360 Financial Mkts. & Inst. (completion of FIN 350)	3		
5. FIN 363 Intermediate Financial Mgt. (completion of FIN 350 & MAT 122 or MAT 181)	3		
6. FIN 365 Multinational Financial Mgt. (completion of FIN 350)	3		
D. Business and/or Free Electives (12 credits): Any course in the Department of Business Administration or any university course that counts toward graduation. (Except ENG 21)			
COURSE:	3		

IMPORTANT NOTES:				
To begin upper division (300 level) study in Business Administration, students must complete the following seven courses.				
COURSE		COURSE		COURSE
ACC 121		BUS 120		ECO 011
ACC 122		BUS 131		ECO 012
		BUS 171CP		

Student must obtain at least a 2.00 average in all seven courses.
 Student must obtain at least a 2.00 average in all courses at the university.
 At that time, students must declare their major in DF 233.

NOTES:
Students not satisfying prerequisites will be removed from courses.
Students should see advisors as soon as advisement is open.
Be prepared for advisement appointments.
Bring a completed check sheet (with grades) to advisement appointment.
Have a tentative schedule at time of appointment.
Remember an internship is an excellent experience. Talk to your advisor about an internship.
To graduate on time, recommended course sequencing must be followed.



COLLEGE OF BUSINESS • BSBA • MANAGEMENT

Program Code: UC0BMGM

Version Number: 2118

Effective Date: FALL 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics:			
COURSE: MAT 121	3		
D. Wellness: Any 3 credit HEA			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) or Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) or Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION* (33 credits)	RC	CR	GR	CAC
A. Natural Science or Mathematics (3 credits)				
1. Elective: MAT 105, 122, or 140				
COURSE:	3			
B. Social Science (9 credits): Any course with prefix ANT, CRJ, ECO, GEG (see note below), HIS, INT, MCS, PSY, POL, SOC, SWK, PED 205, PED 226, or PED 270				
1. Elective				
COURSE: ECO 011 MACRO-ECONOMICS	3			
2. Elective				
COURSE: ECO 012 MICRO-ECONOMICS	3			
3. Elective				
COURSE:	3			

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

	RC	CR	GR	CAC
C. Humanities (6 credits)				
1. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295				
COURSE:	3			
2. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295				
COURSE:	3			
D. Free Electives (15 credits): Select any university course; however, no business courses can be used in this category. (except ENG 21)				
COURSE:	3			

* Students in specific majors in the College of Business may have specific course requirements that fall under College Distribution requirements. Students should consult the major check sheets and/or their advisors prior to course registration.
Note: ENG 21 will not count toward graduation requirements.



COLLEGE OF BUSINESS • BSBA • MARKETING

Program Code: **UCOBMKT**

Version Number: **2118**

Effective Date: **FALL 2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics:			
COURSE: MAT 121	3		
D. Wellness: Any 3 credit HEA			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION* (33 credits)	RC	CR	GR	CAC
A. Natural Science or Mathematics (3 credits)				
1. Elective: MAT 105, 122, or 140				
COURSE:	3			
B. Social Science (9 credits): Any course with prefix ANT, CRJ, ECO, GEG (see note below), HIS, INT, MCS, PSY, POL, SOC, SWK, SPT 205, SPT 226, or SPT 270				
1. Elective				
COURSE: ECO 011 MACRO-ECONOMICS	3			
2. Elective				
COURSE: ECO 012 MICRO-ECONOMICS	3			
3. Elective				
COURSE:	3			

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

	RC	CR	GR	CAC
C. Humanities (6 credits)				
1. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295				
COURSE:	3			
2. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295				
COURSE:	3			
D. Free Electives (15 credits): Select any university course; however, no business courses can be used in this category. (except ENG 21)				
COURSE:	3			

* Students in specific majors in the College of Business may have specific course requirements that fall under College Distribution requirements. Students should consult the major check sheets and/or their advisors prior to course registration.
Note: ENG 21 will not count toward graduation requirements.



COLLEGE OF BUSINESS • BSBA • FINANCE

Program Code:

Version Number: **2118**

Effective Date: **FALL 2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)		RC	CR	GR
A. Oral Communication: COM 10 or above				
COURSE:		3		
B. Written Communication: ENG 023, 024, or 025				
COURSE:		3		
C. Mathematics:				
COURSE: MAT 121		3		
D. Wellness: Any 3 credit HEA				
COURSE:		3		

II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)					
COURSE:		3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)					
COURSE:		3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language					
COURSE:		3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE					
COURSE:		3			
E. Free Elective: Any course carrying university credit					
COURSE:		3			

III. COMPETENCIES ACROSS THE CURRICULUM		RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)					
COURSE:		3			WI
COURSE:		3			WI
COURSE:		3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)					
COURSE:		3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)					
COURSE:		3			
D. Cultural Diversity (CD) (3 credits)					
COURSE:		3			CD
E. Critical Thinking (CT) (3 credits)					
COURSE:		3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION* (33 credits)		RC	CR	GR	CAC
A. Natural Science or Mathematics (3 credits)					
1. Elective: MAT 105, 122 or MAT 140					
COURSE:		3			
B. Social Science (9 credits): Any course with prefix ANT, CRJ, ECO, GEG (see note below), HIS, INT, MCS, PSY, POL, SOC, SWK, PED 205, PED 226, or PED 270					
1. Elective					
COURSE: ECO 011 MACRO-ECONOMICS		3			
2. Elective					
COURSE: ECO 012 MICRO-ECONOMICS		3			
3. Elective					
COURSE:		3			

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

		RC	CR	GR	CAC
C. Humanities (6 credits)					
1. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295					
COURSE:		3			
2. Elective: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, COM, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WRI, WGS, Modern Language, or PED 295					
COURSE:		3			
D. Free Electives (15 credits): Any university course; however, no business courses can be used in this category. (Except ENG 21)					
COURSE:		3			
COURSE:		3			
COURSE:		3			
COURSE:		3			
COURSE:		3			

* Students in specific majors in the College of Business may have specific course requirements that fall under College Distribution requirements. Students should consult this major check sheets and/or their advisors prior to course registration.
Note: ENG 21 will not count toward graduation requirements.



COLLEGE OF BUSINESS • BSBA • FINANCE

Program Code: UC0BFINPPF

Version Number: **2178**

Effective Date: August 28, 2017

FINANCE PROGRAM (Personal Financial Planning Track)

V. MAJOR PROGRAM (60 credits) RC CR GR

A. Business Core (15 credits):		RC	CR	GR
1. ACC 121 Financial Accounting	3			
2. ACC 122 Managerial Accounting (Completion of ACC 121 & BUS 171CP)	3			
3. BUS 120 Business Statistics (Completion of a "C" or better in MAT 105 or MAT 121)	3			
4. BUS 131 Business Law I	3			
5. BUS 171CP Business Info. Systems	3			
B. Business Common Courses (18 credits):		RC	CR	GR
1. MKT 210 Principles of Marketing (Completion of 42 credits, ECO 11 and ECO 12)	3			
2. MGM 210 Principles of Management (Completion of 42 credits, COM 10 & ENG 23)	3			
3. FIN 350QL Financial Management (completion of business core with a 2.0 gpa)	3			
4. MGM 351 Operations Management (completion of business core with a 2.0 gpa & MGM 210)	3			
5. MGM 399CTWI Bus. Strategy & Policy (Completion of MGM 351, FIN 350QL, 84 credits and senior year)	3			
6. International Elective: Any of the following courses: ECO 360CD, FIN 365, MGM 352CD, or MKT 370CD				
Course:	3			
C. Required Courses (18 credits): (completion of business core with a 2.0 gpa)		RC	CR	GR
1. FIN 351 Personal Financial Planning	3			
2. FIN 385 Insurance Planning	3			
3. FIN 354 Investments (completion of FIN 350)	3			
4. ACC 317 Tax Accounting I	3			
5. FIN 386 Retirement & Estate Planning (completion of FIN 351)	3			
6. FIN 389 Financial Planning Capstone (completion of FIN 385, FIN 386, FIN 354, and ACC 317)	3			
D. Business and/or Free Electives (9 credits): Any course in the Department of Business Administration or any university course that counts toward graduation. (Except ENG 21)		RC	CR	GR
COURSE:	3			
COURSE:	3			
COURSE:	3			

IMPORTANT NOTES:					
To begin upper division (300 level) study in Business Administration, students must complete the following seven courses.					
COURSE		COURSE		COURSE	
ACC 121		BUS 120		ECO 011	
ACC 122		BUS 131		ECO 012	
		BUS 171CP			

Student must obtain at least a 2.00 average in all seven courses.
 Student must obtain at least a 2.00 average in all courses at the university.
 At that time, students must declare their major in DF 233.

NOTES:
Students not satisfying prerequisites will be removed from courses.
Students should see advisors as soon as advisement is open.
Be prepared for advisement appointments.
Bring a completed check sheet (with grades) to advisement appointment.
Have a tentative schedule at time of appointment.
Remember an internship is an excellent experience. Talk to your advisor about an internship.
To graduate on time, recommended course sequencing must be followed.



COLLEGE OF BUSINESS • BSBA • MINOR PROGRAM: BUSINESS

Program Code: UCOBBUS2

Version: 2162

Effective Date: 1/19/16

MINOR PROGRAM: BUSINESS**MINOR PROGRAM**

Required courses: (18 credits)
BUS 171CP Business Information Systems or BUS 131 Business Law I (3 credits)
ECO 10 Introduction to Economics (3 credits)
ACC 121 Financial Accounting (3 credits)
MKT 210 Principles of Marketing (3 credits)
MGM 210 Principles of Management (3 credits)
FIN 200 Principles of Finance (3 credits) (Pre-requisites: ECO 10 and ACC 121)

Policies Governing the Business Administration Minor Course Work

- To enroll in the Business Minor, a student needs to have completed MAT 105 College Algebra (“C” or better) or a higher level math.
 - If a student chooses to take BUS 131, students must pass an Excel proficiency exam before enrolling in BUS 131.
 - Students intending to minor in Business Administration must have earned 30 credits at time of application to the minor and a minimum GPA of 2.0.
 - Upon completion of the minor, students must have a minimum GPA of 2.0 in the minor.
 - Students must have earned 42 credits prior to enrolling in MKT 210 and MGM 210.
 - Transfer students who have received credit for coursework completed at other institutions of higher education prior to enrolling at Kutztown University will be allowed to apply a maximum of two courses (6 credits) towards the minor, provided that those courses are evaluated to be equivalent to the required courses in the business minor at the time of enrollment.
 - This minor is available only to non-Bachelor of Science in Business Administration (BSBA) majors.
-



COACHING/ATHLETIC ADMINISTRATION MINOR PROGRAM:

Program Number: UCBCAA2

Version: 2148 – Fall 2014

Effective Date: August 25, 2014

MINOR PROGRAM (21 credits) ¹	RC	CR	GR
1. SPT 201 Scientific Basis of Human Movement	3		
2. SPT 205 Sport Behavior	3		
3. SPT 222 Fundamentals of Coaching	3		
4. SPT 305 Emergency Care & Risk Management ²	3		
5. SPT 335 Methods & Evaluation in Athletics ³	3		
6. SPT 340 Internship in Coaching ³	3		
7. PEC 000 – 099 P.E. Activities ⁴	3		

1. All required courses must be passed with a grade of "C" or higher.

2. SPT 305 is required for all non SM majors; SM majors will count SPT 305 in their major program.

3. SPT 222 is a prerequisite for SPT 335 and SPT 340.

4. A total of 3 activity courses is required to earn 3 credits.



COLLEGE OF BUSINESS • BSBA • MINOR PROGRAM: ECONOMICS

Program Code: UCOBECONO2

Version Number: 2008

Effective Date: FALL 2007

MINOR PROGRAM: ECONOMICS

I. MINOR PROGRAM (18 credits)

	RC	CR	GR
A. Required Courses (12 credits):			
ECO 11 Principles of Macroeconomics	3		
ECO 12 Principles of Microeconomics	3		
ECO 205 Intermediate Microeconomics	3		
ECO 210 Intermediate Macroeconomics	3		
B. Elective Courses (6 credits):			
ECO	3		
ECO	3		

Note: Business Administration majors may take the Economics Minor.



FITNESS ADMINISTRATION MINOR PROGRAM:

Program Number: UC0BFIT2

Version: 2178

Effective Date: August 28, 2017

MINOR PROGRAM (21 credits)	RC	CR	GR
A. Required Courses (18 credits): ¹	3		
1. SPT 120 Personal Nutrition	3		
2. SPT 201 Scientific Basis of Human Movement	3		
3. SPT 250 Methods of Group Fitness Instruction	3		
4. SPT 305 Emergency Care & Risk Management ²	3		
5. SPT 310 Fitness Assessment and Exer Programming ⁴	3		
6. SPT 366 Personal Fitness Trainer	3		
B. Minor Electives (Select One Option):	3		
1. PEC000 – 099 P.E. Activities ³			
2. SPT 216 Exercise Physiology ⁴			
3. SPT 240 Health Promotion			
4. SPT 230 Leadership and Team Building ² or PRO232WI Practical Leadership			
Total	21		

1. All required courses must be passed with a grade of "C" or higher.

2. SPT 230 & SPT 305 are core requirements for SM Majors.

3. A total of 3 activity courses is required to earn 3 credits.

4. A Pre-Req SPT 201



COLLEGE OF BUSINESS • BSBA • MINOR PROGRAM: SUPPLY CHAIN MANAGEMENT AND LOGISTICS

Program Code: UC0BSCML2

Version Number: 2158

Effective Date: 8/24/2015

MINOR PROGRAM: SUPPLY CHAIN MANAGEMENT AND LOGISTICS

I. MINOR PROGRAM (18 credits)

RC CR GR

A. Required Courses: (12 credits)			
MGM 315 Management Science	3		
MGM/MKT 361 Principles of Business Logistics	3		
MGM 362 Supply Chain Planning and Management	3		
MGM 363 Transportation Management	3		

B. Elective Courses: (Select 2: 6 credits)			
ACC 305 Cost Accounting	3		
ACC 312 Accounting Information Systems	3		
BUS 310 Advanced Business Computer Application	3		
ECO 360CD International Trade and Finance	3		
GEG 220 Economic Geography	3		
GEG 274CPQL Introduction to GIS	3		
BUS 390 Business Internship (only a verified internship in Supply Chain Management & Logistics Field)	3		

<p>NOTES: If you register for a course without the prerequisites you will be dropped from the course.</p> <p>THIS MINOR IS FOR BSBA DECLARED MAJORS ONLY.</p> <p>Most courses in this minor have prerequisites. Please check MyKU for each course specific prerequisite.</p> <p>For more information, contact the Department of Business Administration, DF 233.</p>
<p>A BSBA candidate can complete the Supply Chain Management and Logistics minor within the 120 credits needed for the BSBA degree if the minor is started early in the candidate's program and planned for properly. However, depending on when the minor is started, the minor can result in a student needing to take up to an additional 18 credits to graduate (138 credits, total) with the minor and this can delay graduation. This is particularly true of management majors. Management Majors who wish to be eligible to earn a Supply Chain management and Logistics Minor must take the courses required for the minor. IN ADDITION to the Restricted Electives (Section V.D. of the BSBA/Management Major Grid Sheet). Courses in the Minor will not double count for the Management Major Restricted Electives section.</p>

COLLEGE OF EDUCATION

The College of Education at Kutztown University of Pennsylvania is dedicated to having a positive impact on the lives of children and youth in the Commonwealth of Pennsylvania through the preparation of highly qualified professional educators. Our goal is to provide preparation programs that blend a strong knowledge base in the content area, and understanding of human development and grounding in pedagogy with frequent and continuous field experiences. The professional educators prepared in our programs will be willing and able to effect change in an increasingly diverse and technologically integrated educational environment. Our graduates will be committed to professional development throughout their careers, thus supporting the College of Education model of lifelong learning.

-John Ward, Interim Dean

Bachelor of Science

B.S. Elementary Education Pre K-4

B.S. Elementary Education 4-8 Mathematics & English/Language Arts & Reading

B.S. Elementary Education 4-8 Mathematics and Science

B.S. Elementary Education 4-8 Mathematics & Social Studies

B.S. Elementary Education 4-8 Science & English/Language Arts & Reading

B.S. Elementary Education 4-8 Science & Social Studies

B.S. Library Science

B.S. Secondary Education: Biology

B.S. Secondary Education/Special Education: Biology

B.S. Secondary Education: Chemistry

B.S. Secondary Education: English

B.S. Secondary Education/Special Education: English

B.S. Secondary Education: General Science

B.S. Secondary Education/Special Education: General Science

B.S. Secondary Education: German

B.S. Secondary Education/Special Education: German

B.S. Secondary Education: Mathematics

B.S. Secondary Education/Special Education: Mathematics

B.S. Secondary Education: Physics

B.S. Secondary Education: Physics and Mathematics

B.S. Secondary Education: Social Studies

B.S. Secondary Education/Special Education: Social Studies

B.S. Secondary Education: Spanish

B.S. Secondary Education/Special Education: Spanish

B.S. Special Education PreK-8: Elementary Education PreK-4

B.S. Special Education PreK-8: Elementary Education 4-8 Math & English/Language Arts & Reading

B.S. Special Education PreK-8: Elementary Education 4-8 Mathematics & Science

B.S. Special Education PreK-8: Elementary Education 4-8 Mathematics & Social Studies

B.S. Special Education PreK-8: Elementary Education 4-8 Science & English/Language Arts & Reading

B.S. Special Education PreK-8: Elementary Education 4-8 Science & Social Studies

B.S. Special Education Visual Impairment Birth-21: Elementary Education PreK-4

B.S. Special Education Visual Impairment Birth-21: Elementary Education 4-8 Math & English/Language Arts & Reading

B.S. Special Education Visual Impairment Birth-21: Elementary Education 4-8
Math & Science

B.S. Special Education Visual Impairment Birth-21: Elementary Education 4-8
Math & Social Studies

B.S. Special Educational Visual Impairment Birth-21: Elementary Education 4-8
Science & English/Language Arts & Reading

B.S. Special Education Visual Impairment Birth-21: Elementary Education 4-8
Science & Social Studies

Bachelor of Science in Education

B.S.Ed. Library Science

B.S.Ed. Special Education: Educational Studies B.S.Ed. Visually Impaired:
Educational Studies

Minors

Library Science



College of Education
Bachelor of Science • Elementary Education – Pre-K-4

Program Code: UCOEELUPK
 Version Number: 2178 – Fall 2017

Effective Date: August 28, 2017

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	CAC
A. Oral Communication: COM 010 or above				
Course: COM 010 ♣ (suggested)	3			
B. Written Communication: ENG 023, 024 or 025				
Course: ENG 023, 024 or 025 ♣	3			
C. Mathematics: MAT 017 or above				
Course: MAT 103 ♣ (suggested)	3			
D. Wellness: Any 3-credit HEA course				
Course: HEA 102 (suggested)	3			

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (Pre req to EEU 205) (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: PSY 011 (Pre req to PSY 110) (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE: ENG LIT ♣ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: GEG or ECO (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
A. Math				
COURSE: MAT 104QL ♣ (suggested)	3			
B. Special Education				
COURSE: SPU 201CD Cognitive Development ♣	3			
C. Technology				
COURSE: LLT 321CPVL Instructional Tech. in Ed. ♣	3			
D. 12 Credits required by major but fulfilling Gen Ed req. (suggested courses below)				
COURSE: EEU 211CD Family Collaboration & Diversity ♣	3			
COURSE: EDU 101CTWI Teaching Pre-K-8; An Explor. ♣	3			
COURSE: SPU 314 Effective Instructional Strategies ♣	3			
COURSE: SPU 316WI Lit. Dev. Core & Intervention ♣	3			

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of program specific observation hours

♣ - These courses require a grade of “C” or better.

B.S. in Elementary Education – Pre-K-4

Program Code: UCOEELUPK

120 Credits Required

Effective Date: August 28, 2017

Version Number: 2178 – Fall 2017

V. CERTIFICATION COURSES (45 credits)

RC CR GR CAC

1. Professional Courses 21 S.H. – Pre Candidacy				
EDU 101CTWI Teaching Pre-K-8; An Explor. & Investigation ♣	#			WI CT
EEU 202 Disposition Toward Advocacy Collab & Coop. ♣ (Pre req to EEU 211CD)	3			
EEU 205 Teaching Science in Early Childhood ♣	3			
EEU 209 Math Foundations for Pre-K-1 ♣ (Pre req to EEU 309 & Prosem)	3			
EEU 211CD Family Collaboration and Diversity ♣	#			CD
EEU 220VL Children’s Literature for Pre-K-4 ♣	3			VL
EEU 215 Introduction to Early Childhood Education ♣ (Pre req to EEU 300 & EEU 225)	3			
EEU 225 Assessment 1: Obs. & Informal ♣ (Pre req to EEU 325 & EEU 205)	3			
ARU 236 The Arts and Pre- K-4 Education OR EEU 236 ♣	3			
SPU 201CD Cog. Dev. Of Diverse Learners ♣	#			CD
SPU 314 Effective Inst. Strategies ♣	#			
LLT 321CPVL Instructional Technology in Education ♣	#			CP VL
SPU 316WI Literacy Dev. Core & Intervention ♣	#			WI
2. Professional Courses 9 S.H. - Candidacy Required				
EEU 300 Early Literacy DEV. & Acquisition Pre-K-1 ♣ (Pre req to EEU 301 & ELU 353 & Prosem)	3			
EEU 325 Assessment II: Form. Sum., Diag., Bench. ♣	3			
ELU 353 Language Dev., Reading Assessment & Interven. ♣	3			
3. Additional Requirements 15 S.H.				
A. Humanities: Art Hist, Music, Theatre, Philosophy, Mod. Lang, Speech Course:	3			
B. HEA 102 Introduction To Health & Wellness	#			
C. Diversity Course - See listing for eligible courses Course:	3			
D. Physical science with/wo lab (Pre req to EEU 205) Any course prefix AST, CHM, GEL, MAR, PHY or GEG204, GEG304, GEG323, GEG324, GEG347 Course:	3			
E. HIS 025 or HIS 026	3			
F. PSY 011 (Pre req to PSY 110 & EEU 215)	#			
G. PSY 110 Child Psychology (Pre req to EEU 215) ♣	3			
H. ENG 023, 024, or 025 English Composition ♣ (Pre req to all ENG lit courses)	#			
I. Any English Literature ♣ (Pre req to EEU 220VL) Course:	#			
J. BIO 010 (Pre req to EEU 205)	#			
K. GEG or ECO (Any course with either prefix) Course:	#			
L. MAT 103 Fundamentals of Math I ♣ (Pre req to MAT 104)	#			
M. MAT 104QL Fundamentals of Math II ♣	#			QL
N. Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE	#			
O. COM 010 Fundamentals of Oral Communication ♣	#			

VI. CLINICAL COMPONENT (27 credits)

RC CR GR CAC

A. Professional Semester - Candidacy Required Courses scheduled in a block Fall or Spring 15 S.H.				
EEU 301 Teaching Literacy in Grades 2- 4 ♣	3			
EEU 303WI Language Development & Teaching Language Arts in Pre-K-4 ♣	3			WI
EEU 304 Teaching Social Studies in Pre-K-4 ♣	3			
EEU 306WI Integrating Principles of Learning in Pre-K-4 ♣	3			WI
EEU 309 Teaching Math in Grades 2-4 ♣	3			
B. Clinical Experience Fall or Spring _____ 12 S.H.				
EEU 390 Clinical Experience Pre- K-4 ♣	6			
EEU 391 Clinical Experience Pre-K-4 ♣	6			

- Student is receiving credit for course as a General Education requirement.

♣ - These courses require a grade of “C” or better.

Diversity Course Requirement Listing:

ANT 010CD ANT 130 ANT 215CTWI ANT 226CDWI
ANT 290CD
SOC 010CD SOC 110CD SOC 120CDWI SOC 140
SOC 230CDCT
CRJ 230CDCM CRJ 231CD
HIS 150CD
INT 010
POL 030CD
PSY 215CD PSY 240
COM 213CD

(Please note: ANT 130, ANT 290, SOC 110, PSY 215, and PSY 240 have pre-requisites.)



College of Education

Bachelor of Science • Elementary Education – 4-8 Mathematics & English/Lang. Arts & Reading

Program Number: UCOEELUME
Version Number 2178 – Fall 2017

Effective Date: August 28, 2017

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) RC CR GR

A. Oral Communication: COM 010 or above			
Course: COM 010 ♣ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
Course: ENG 023, 024 or 025 ♣	3		
C. Mathematics: MAT 017 or above			
Course: MAT 103 ♣ (suggested)	3		
D. Wellness: Any 3-credit HEA course			
Course: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits) RC CR GR CAC

A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE: ENG 105CDCT or ENG 106CDCT ♣ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: ENG 10WI (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM RC CR GR CAC

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits) RC CR GR CAC

A. Math				
COURSE: MAT 104QL ♣ (suggested)	3			
B. Special Education				
COURSE: SPU 201CD Cognitive Development ♣	3			
C. Technology				
COURSE: LLT 321CPVL Instructional Tech. in Ed. ♣	3			
D. 12 Credits required by major but fulfilling Gen Ed req. (suggested courses below)				
COURSE: ELU 212CD Teaching Diverse Learners ♣	3			
COURSE: EDU 101CTWI Teach. Pre-K-8; An Explor. ♣	3			
COURSE: SPU 314 Effective Instructional Strategies ♣	3			
COURSE: SPU 316WI Literacy Dev. Core & Interv. ♣	3			

♣ - These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of program specific observation hours

B.S. in Elementary Education – 4-8 Mathematics & English/Lang.Arts & Reading

Program Code: UCOEELUME

123 Credits Required

Effective Date: August 28, 2017

Version Number: 2178 – Fall 2017

V. CERTIFICATION COURSES (48 credits)

RC CR GR CAC

1. Professional Courses 3 S.H. – Pre Candidacy				
ELU 212CD Teaching Diverse Learners at Mid.Level ♣	#			CD
EDU 101CTWI Teaching Pre-K- 8; An Explor. & Investigation ♣	#			CT WI
SPU 201CD Cognitive Devel. Of Diverse Learners ♣	#			CD
SPU 314 Effective Inst. Strategies ♣	#			
SPU 316WI Literacy Dev. Core & Intervention ♣	#			WI
LLT 321CPVL Technology in Education. Instruction ♣	#			CP VL
HEA 102 Introduction to Health and Wellness	#			
Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE	#			
EDU 326 Intro. To Middle level Educ. ♣ (pre-req for Prosem)	3			
2. Natural Sciences: 9 S.H.				
a. BIO 010 Introduction to Biology (lab)	#			
b. CHM 020 Introduction to Chemistry (lab)	3			
c. PHY 020 Introduction to Physics (lab)	3			
d. BIO 130 Envir. Issues OR BIO 140 Bio and Society	3			
3. Mathematics: 15 S.H.				
a. MAT 103 Fundamentals of Math I ♣	#			
b. MAT 104QL Fundamentals of Math II ♣	#			QL
c. MAT 040 Geometry	3			
d. MAT 105 College Algebra (prerequisite For 122)	3			
e. MAT 122 Applied Calculus	3			
f. MAT 140QL Applied Stat Methods	3			QL
g. Choose ONE of the following courses (for 3 credits)				
MAT 106 Trigonometry	3			
MAT 115 Pre-Calculus	3			
MAT 123 Discrete Mathematics	3			
4. English/Language Arts & Reading 12 S.H.				
a. ENG 105CDCT or ENG 106CDCT ♣ (pre-req for ELU 221)	#			CD CT
b. ENG 023, 024 or 025 ♣	#			
c. ENG 100WI Principles of Literacy Analysis	#			WI
d. COM 010 Fundamentals of Oral Communication ♣	#			
e. ENG 230 (WICT) Adv. Comp OR ENG 334 Intro. to Linguistics	3			
f. ELU 221VL Lit. for Upper Elem. & Mid. Level Learners (pre-req for ELU 331) ♣	3			VL
g. ELU 331 Teaching & Assessing Literacy for Middle Level Learners across Academic Disciplines ♣ (Pre-req. For ELU 353)	3			
h. ELU 353 Lang. Dev., Reading Assess. & Interven. ♣ Teacher Candidacy Required	3			

RC CR GR CAC

5. Social Studies 9 S.H. (Choose one from each line)				
American History – HIS 025 or HIS 026	#			
Economics – ECO 010, ECO 011 or ECO 012	3			
World History – HIS 014 CD or HIS 015	3			
Geography – GEG 010, GEG 020CD, or GEG 101	3			

VI. CLINICAL COMPONENT (27 credits)

RC CR GR CAC

A. Professional Semester - Teacher Candidacy Required Courses scheduled in a block Fall semester 15 S.H.				
ELU 342WI Teaching Writing at the Middle Level ♣	3			WI
ELU 344 Teach. & Assess. Soc. Studies for Middle Level Learners. ♣	3			
ELU 346WI Middle Level Cognitive Development ♣	3			WI
ELU 347 Teach. & Assess. Math for Mid Level Learner ♣	3			
ELU 349 Teach. & Assess. Sci. for Mid. Level Learners ♣	3			
B. Clinical Experience Fall or Spring _____ 12 S.H.				
ELU 392 Clinical Experience I with Mid. Lev. Learners ♣	6			
ELU 393 Clinical Experience II with Mid. Lev. Learners ♣	6			

- Student is receiving credit for course as a General Education requirement.

♣ - These courses require a grade of "C" or better.



College of Education
Bachelor of Science • Elementary Education – 4-8 Mathematics & Science

Program Code: UCOEELUMC
 Version Number: 2158 – Fall 2015

Effective Date: August 24, 2015

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)		RC	CR	GR	
A. Oral Communication: COM 010 or above					
Course: COM 010 ♣ (suggested)		3			
B. Written Communication: ENG 023, 024 or 025					
Course: ENG 023, 024 or 025 ♣		3			
C. Mathematics: MAT 017 or above					
Course: MAT 103 ♣ (suggested)		3			
D. Wellness: Any 3-credit HEA course					
Course: HEA 102 (suggested)		3			
II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)					
COURSE: CHM 020 (suggested)		3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)					
COURSE: HIS 025 or HIS 026 (suggested)		3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRJ, or Modern Language					
COURSE: ENG 100 ♣ (suggested)		3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE					
COURSE:		3			
E. Free Elective: Any course carrying university credit					
COURSE: ECO 010, ECO 011, or ECO 012 (suggested)		3			

III. COMPETENCIES ACROSS THE CURRICULUM		RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)					
COURSE:		3			WI
COURSE:		3			WI
COURSE:		3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)					
COURSE:		3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)					
COURSE:		3			
D. Cultural Diversity (CD) (3 credits)					
COURSE:		3			CD
E. Critical Thinking (CT) (3 credits)					
COURSE:		3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)		RC	CR	GR	CAC
A. Math					
COURSE: MAT 104 ♣ (suggested)		3			
B. Special Education					
COURSE: SPU 201 Cognitive Development ♣		3			
C. Technology					
COURSE: ITC 321 Instructional technology in Ed. ♣		3			
D. 12 Credits required by major but fulfilling Gen Ed req. (suggested courses below)					
COURSE: ELU 212 Teaching Diverse Learners ♣		3			
COURSE: EDU 101 Teaching Pre-K-8; An Explor. ♣		3			
COURSE: SPU 314 Effective Instructional Strategies ♣		3			
COURSE: SPU 316 Literacy Dev. Core & Intervention ♣		3			

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of program specific observation hours

♣ - These courses require a grade of “C” or better.

B.S. in Elementary Education – 4-8 Mathematics & Science

Program Code: UCOEELUMC

123 Credits Required

Effective Date: August 24, 2015

Version Number: 2158 – Fall 2015

V. CERTIFICATION COURSES (48 credits)

RC CR GR CAC

1. Professional Courses 3 S.H. – Pre Candidacy				
ELU 212 Teaching Diverse Learners at Mid.Level ♣	#			CD
EDU 101 Teaching Pre-K- 8; An Explor. & Investigation ♣	#			CT WI
SPU 201 Cognitive Devel. Of Diverse Learners ♣	#			CD
SPU 314 Effective Inst. Strategies ♣	#			
ITC 321 Technology in Education. Instruction ♣	#			CP VL
HEA 102 Introduction to Health and Wellness	#			
Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE	#			
EDU 326 Intro. To Middle level Educ. ♣	3			
2. Professional Courses - Teacher Candidacy Required				
SPU 316 Literacy Dev. Core & Intervention ♣	#			WI
3. Natural Sciences 18 S.H.				
a. CHM 020 Introduction to Chemistry (lab)	#			
b. BIO 010 or BIO 104	3/4			
c. AST 020 Introductory Astronomy (lab)	3			
d. GEG 204 Meteorology	3			
e. GEL 020 Introduction to Geology (lab)	3			
f. PHY 020 Introduction to Physics (lab)	3			
g. BIO 130 Environmental Issues: Global Perspectives	3			
4. Mathematics 15 S.H.				
a. MAT 103 Fundamentals of Math I ♣	#			
b. MAT 104 Fundamentals of Math II ♣	#			QL
c. MAT 040 Geometry	3			
d. MAT 105 College Algebra (prereq. For 122)	3			
e. MAT 122 Applied Calculus	3			
f. MAT 140 Applied Stat Methods	3			QL
g. Choose ONE of the following courses (for 3 credits)				
MAT 106 Trigonometry	3			
MAT 115 Pre-Calculus	3			
MAT 123 Discrete Math	3			
5. English/Language Arts & Reading 6 S.H.				
a. ENG 100 Literary Analysis ♣	#			WI
b. ENG 023, 024 or 025 ♣	#			
c. COM 010 Fundamentals of Oral Communication ♣	#			
d. ELU 221 Lit. for Upper Elem. & Mid. Level Learners ♣	3			VL
e. ELU 331 Teaching & Assessing Literacy for Middle Level Learners across Academic Disciplines ♣ Teacher Candidacy Required (Pre-req. For Prosem)	3			

RC CR GR CAC

6. Social Studies 6 S.H. (Choose one from each line)				
American History – HIS 025 or HIS 026	#			
Economics – ECO 010, ECO 011 or ECO 012	#			
World History – HIS 014 (CD) or HIS 015	3			
Geography–GEG 010, GEG 020 (CD), or GEG 101	3			

VI. CLINICAL COMPONENT (27 credits)

RC CR GR CAC

A. Professional Semester - Teacher Candidacy Required Courses scheduled in a block Fall or Spring 15 S.H.				
ELU 342 Teaching Writing at the Middle Level ♣	3			WI
ELU 344 Teach. & Assess. Soc. Studies for Middle Level Learners. ♣	3			
ELU 346 Middle Level Cognitive Development ♣	3			WI
ELU 347 Teach. & Assess. Math for Mid Level Learner♣	3			
ELU 349 Teach. & Assess. Sci. for Mid. Level Learners ♣	3			
B. Clinical Experience Fall or Spring _____ 12 S.H.				
ELU 392 Clinical Experience I with Mid. Lev. Learners ♣	6			
ELU 393 Clinical Experience II with Mid. Lev. Learners♣	6			

- Student is receiving credit for course as a General Education requirement.

♣ - These courses require a grade of “C” or better.



College of Education

Bachelor of Science • Elementary Education – 4-8 Mathematics & Social Studies

Program Code: UCOEELUMS
Version Number: 2158 – Fall 2015

Effective Date: August 24, 2015

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	CAC
A. Oral Communication: COM 010 or above				
Course: COM 010 ♣ (suggested)	3			
B. Written Communication: ENG 023, 024 or 025				
Course: ENG 023, 024 or 025 ♣	3			
C. Mathematics: MAT 017 or above				
Course: MAT 103 ♣ (suggested)	3			
D. Wellness: Any 3-credit HEA course				
Course: HEA 102 (suggested)	3			

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: HIS 025 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRJ, or Modern Language				
COURSE: ENG 100 ♣ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: ECO 010, ECO 011 or ECO 012 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
A. Math				
COURSE: MAT 104 ♣ (suggested)	3			
B. Special Education				
COURSE: SPU 201 Cognitive Development ♣	3			
C. Technology				
COURSE: : ITC 321 Instructional Technology in Ed. ♣	3			
D. 12 Credits required by major but fulfilling Gen Ed req. (suggested courses below)				
COURSE: ELU 212 Teaching Diverse Learners ♣	3			
COURSE: EDU 101 Teaching Pre-K-8; An Explor. ♣	3			
COURSE: SPU 314 Effective Instructional Strategies ♣	3			
COURSE: SPU 316 Literacy Dev. Core & Intervention ♣				

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of program specific observation hours

♣ - These courses require a grade of “C” or better.

B.S. in Elementary Education – 4-8 Mathematics & Social Studies

Program Code: UCOEELUMS

123 Credits Required

Effective Date: August 24, 2015

Version Number: 2158 – Fall 2015

V. CERTIFICATION COURSES (48 credits)

RC CR GR CAC

1. Professional Courses 3 S.H. – Pre Candidacy				
ELU 212 Teaching Diverse Learners at Mid.Level ♣	#			CD
EDU 101 Teaching Pre-K- 8; An Explor. & Investigation ♣	#			CT WI
SPU 201 Cognitive Devel. Of Diverse Learners ♣	#			CD
SPU 314 Effective Inst. Strategies ♣	#			
ITC 321 Technology in Education. Instruction ♣	#			CP VL
HEA 102 Introduction to Health and Wellness	#			
Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE	#			
EDU 326 Intro. To Middle level Educ. ♣	3			
2. Professional Courses - Teacher Candidacy Required				
SPU 316 Literacy Dev. Core & Intervention ♣	#			WI
3. Natural Sciences: 9 S.H.				
a. BIO 010 Introduction to Biology (lab)	#			
b. CHM 020 Introduction to Chemistry (lab)	3			
c. PHY 020 Introduction to Physics (lab)	3			
d. BIO 130 Envir. Issues OR BIO 140 Bio and Society	3			
4. Mathematics: 15 S.H.				
a. MAT 103 Fundamentals of Math I ♣	#			
b. MAT 104 Fundamentals of Math II ♣	#			QL
c. MAT 040 Geometry	3			
d. MAT 105 College Algebra (prereq. For 122)	3			
e. MAT 122 Applied Calculus	3			
f. MAT 140 Applied Stat. Methods	3			QL
g. Choose ONE of the following courses (for 3 credits)				
MAT 106 Trigonometry	3			
MAT 115 Pre-Calculus	3			
MAT 123 Discrete Math	3			
5. English/Language Arts & Reading 6 S.H.				
a. ENG 100 Literary Analysis ♣	#			WI
b. ENG 023, 024 or 025 ♣	#			
c. COM 010 Fundamentals of Oral Communication ♣	#			
d. ELU 221 Lit. for Upper Elem. & Mid. Level Learners ♣	3			VL
e. ELU 331 Teaching & Assessing Literacy for Middle Level Learners across Academic Disciplines ♣ Teacher Candidacy Required (Pre-req. For Prosem)	3			

RC CR GR CAC

6. Social Studies 15 S.H. (Choose one from each line)				
American History – HIS 025	#			
Economics – ECO 010, ECO 011 or ECO 012	#			
American History – HIS 026	3			
World History – HIS 014	3			CD
World History – HIS 015	3			
Geography – GEG 010, GEG 020 (CD), or GEG 101	3			
Constitutional History of the US – HIS 310	3			

VI. CLINICAL COMPONENT (27 credits)

RC CR GR CAC

A. Professional Semester - Teacher Candidacy Required Courses scheduled in a block Fall or Spring 15 S.H.				
ELU 342 Teaching Writing at the Middle Level ♣	3			WI
ELU 344 Teach. & Assess. Soc. Studies for Middle Level Learners. ♣	3			
ELU 346 Middle Level Cognitive Development ♣	3			WI
ELU 347 Teach. & Assess. Math for Mid Level Learner ♣	3			
ELU 349 Teach. & Assess. Sci. for Mid. Level Learners ♣	3			
B. Clinical Experience Fall or Spring _____ 12 S.H.				
ELU 392 Clinical Experience I with Mid. Lev. Learners ♣	6			
ELU 393 Clinical Experience II with Mid. Lev. Learners ♣	6			

- Student is receiving credit for course as a General Education requirement.

♣ - These courses require a grade of "C" or better.



College of Education

Bachelor of Science • Elementary Education – 4-8 Science & English/Lang. Arts & Reading

Program Code: UCOEELUSE
Version Number: 2178 – Fall 2017

Effective Date: August 28, 2017

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	CAC
A. Oral Communication: COM 010 or above				
Course: COM 010 ♣ (suggested)	3			
B. Written Communication: ENG 023, 024 or 025				
Course: ENG 023, 024 or 025 ♣	3			
C. Mathematics: MAT 017 or above				
Course: MAT 103 ♣ (suggested)	3			
D. Wellness: Any 3-credit HEA course				
Course: HEA 102 (suggested)	3			
II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: CHM 020 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRJ, or Modern Language				
COURSE: ENG105CDCT or ENG106CDCT♣ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: ENG 100WI (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
A. Math				
COURSE: MAT 104QL ♣ (suggested)	3			
B. Special Education				
COURSE: SPU 201CD Cognitive Development ♣	3			
C. Technology				
COURSE: LLT 321CPVL Instructional tech. in Ed. ♣	3			
D. 12 Credits required by major but fulfilling Gen Ed req. (suggested courses below)				
COURSE: ELU 212CD Teaching Diverse Learners ♣	3			
COURSE: EDU 101CTWI Teach. Pre-K-8; An Explor. ♣	3			
COURSE: SPU 314 Effective Instructional Strategies ♣	3			
COURSE: SPU 316WI Literacy Dev. Core & Interv. ♣	3			

♣ - These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of program specific observation hours

B.S. in Elementary Education – 4-8 Science & English/Lang.Arts & Reading

Program Code: UCOEELUSE

123 Credits Required

Effective Date: August 28, 2017

Version Number: 2178 – Fall 2017

V. CERTIFICATION COURSES (48 credits)

RC CR GR CAC

RC CR GR CAC

1. Professional Courses 3 S.H. – Pre Candidacy				
ELU 212CD Teaching Diverse Learners at Mid.Level ♣	#			CD
EDU 101CTWI Teaching Pre-K- 8; Explor.& Investigation ♣	#			CT WI
SPU 201CD Cognitive Devel. Of Diverse Learners ♣	#			CD
SPU 314 Effective Inst. Strategies ♣	#			
SPU 316WI Literacy Dev. Core & Intervention ♣	#			WI
LLT 321CPVL Technology in Education. Instruction ♣	#			CP VL
HEA 102 Introduction to Health and Wellness	#			
Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE	#			
EDU 326 Intro. To Middle level Educ. ♣ (pre-req for Prosem)	3			
3. Natural Sciences 18 S.H.				
a. CHM 020 Introduction to Chemistry (lab)	#			
b. BIO 010 OR BIO 104	3/4			
c. AST 020 Introductory Astronomy (lab)	3			
d. GEG 204 Meteorology	3			
e. GEL 020 Introduction to Geology (lab)	3			
f. PHY 020 Introduction to Physics (lab)	3			
g. BIO 130 Environmental Issues: Global Perspectives	3			
4. Mathematics 6 S.H.				
a. MAT 103 Fundamentals of Math I ♣	#			
b. MAT 104QL Fundamentals of Math II ♣	#			QL
c. MAT 040 Geometry	3			
d. MAT 105 College Algebra OR MAT 115 Pre-Calculus	3			
5. English/Language Arts & Reading 12 S.H.				
a. ENG 105CDCT or ENG 106CDCT ♣ (pre-req for ELU 221)	#			CD CT
b. ENG 023, 024 or 025 ♣	#			
c. ENG 100WI Principles of Literacy Analysis	#			WI
d. COM 010 Fundamentals of Oral Communication ♣	#			
e. ENG 230 (WICT) Adv. Comp OR ENG 334 Intro. to Linguistics	3			
f. ELU 221VL Lit. for Upper Elem. & Mid. Level Lrners ♣ (pre-req for ELU 331)	3			VL
g. ELU 331 Teaching & Assessing Literacy for Middle Level Learners across Academic Disciplines ♣ (Pre-req. for ELU 353)	3			
h. ELU 353 Lang. Dev., Reading Assess. & Interven. ♣ Teacher Candidacy Required	3			

6. Social Studies 9 S.H. (Choose one from each line)				
American History – HIS 025 or HIS 026	#			
Economics – ECO 010, ECO 011 or ECO 012	3			
World History – HIS 014 CD or HIS 015	3			
Geography – GEG 010, GEG 020CD, or GEG 101	3			

VI. CLINICAL COMPONENT (27 credits)

RC CR GR CAC

A. Professional Semester – Teacher Candidacy Required Courses scheduled in a block Fall semester 15 S.H.				
ELU 342WI Teaching Writing at the Middle Level ♣	3			WI
ELU 344 Teach. & Assess. Soc. Studies for Middle Level Learners. ♣	3			
ELU 346WI Middle Level Cognitive Development ♣	3			WI
ELU 347 Teach. & Assess. Math for Mid Level Learner ♣	3			
ELU 349 Teach. & Assess. Sci. for Mid. Level Learners ♣	3			
B. Clinical Experience Fall or Spring _____ 12 S.H.				
ELU 392 Clinical Experience I with Mid. Lev. Learners ♣	6			
ELU 393 Clinical Experience II with Mid. Lev. Learners ♣	6			

- Student is receiving credit for course as a General Education requirement.

♣ - These courses require a grade of "C" or better.



College of Education
Bachelor of Science • Elementary Education – 4-8 Science & Social Studies

Program Code: UCOEELUSI
Version Number: 2158 – Fall 2015

Effective Date: August 24, 2015

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)		RC	CR	GR	
A. Oral Communication: COM 010 or above					
Course: COM 010 ♣ (suggested)		3			
B. Written Communication: ENG 023, 024 or 025					
Course: ENG 023, 024 or 025 ♣		3			
C. Mathematics: MAT 017 or above					
Course: MAT 103 ♣ (suggested)		3			
D. Wellness: Any 3-credit HEA course					
Course: HEA 102 (suggested)		3			

II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)					
COURSE: CHM 020 (suggested)		3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)					
COURSE: HIS 025 (suggested)		3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRJ, or Modern Language					
COURSE: ENG 100 ♣ (suggested)		3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE					
COURSE:		3			
E. Free Elective: Any course carrying university credit					
COURSE: ECO 010, ECO 011 or ECO 012 (suggested)		3			

III. COMPETENCIES ACROSS THE CURRICULUM		RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)					
COURSE:		3			WI
COURSE:		3			WI
COURSE:		3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)					
COURSE:		3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)					
COURSE:		3			
D. Cultural Diversity (CD) (3 credits)					
COURSE:		3			CD
E. Critical Thinking (CT) (3 credits)					
COURSE:		3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)		RC	CR	GR	CAC
A. Math					
COURSE: MAT 104 ♣ (suggested)		3			
B. Special Education					
COURSE: SPU 201 Cognitive Development ♣		3			
C. Technology					
COURSE: ITC 321 Instructional technology in Ed. ♣		3			
D. 12 Credits required by major but fulfilling Gen Ed req. (suggested courses below)					
COURSE: ELU 212 Teaching Diverse Learners ♣		3			
COURSE: EDU 101 Teaching Pre-K-8; An Explor. ♣		3			
COURSE: SPU 314 Effective Instructional Strategies ♣		3			
COURSE: SPU 316 Literacy Dev. Core & Intervention ♣		3			

♣ - These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of program specific observation hours

B.S. in Elementary Education – 4-8 Science & Social Studies

Program Code: UCOEELUSI
Version Number: 2158 – Fall 2015

123 Credits Required

Effective Date: August 24, 2015

V. CERTIFICATION COURSES (48 credits)

RC CR GR CAC

RC CR GR CAC

1. Professional Courses 3 S.H. – Pre Candidacy				
ELU 212 Teaching Diverse Learners at Mid.Level ♣	#			CD
EDU 101 Teaching Pre-K- 8; An Explor. & Investigation ♣	#			CT WI
SPU 201 Cognitive Devel. Of Diverse Learners ♣	#			CD
SPU 314 Effective Inst. Strategies ♣	#			
ITC 321 Technology in Education. Instruction ♣	#			CP VL
HEA 102 Introduction to Health and Wellness	#			
Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE	#			
EDU 326 Intro. To Middle level Educ. ♣	3			
2. Professional Courses - Teacher Candidacy Required				
SPU 316 Literacy Dev. Core & Intervention ♣	#			WI
3. Natural Sciences 18 S.H.				
a. CHM 020 Introduction to Chemistry (lab)	#			
b. BIO 010 OR BIO 104	3/4			
c. AST 020 Introductory Astronomy (lab)	3			
d. GEG 204 Meteorology	3			
e. GEL 020 Introduction to Geology (lab)	3			
f. PHY 020 Introduction to Physics (lab)	3			
g. BIO 130 Environmental Issues: Global Perspectives	3			
4. Mathematics 6 S.H.				
a. MAT 103 Fundamentals of Math I ♣	#			
b. MAT 104 Fundamentals of Math II ♣	#			QL
c. MAT 040 Geometry	3			
d. MAT 105 College Algebra OR MAT 115 Pre-Calculus	3			
5. English/Language Arts & Reading 6 S.H.				
a. ENG 100 Literary Analysis ♣	#			WI
b. ENG 023, 024 or 025 ♣	#			
c. COM 010 Fundamentals of Oral Communication ♣	#			
d. ELU 221 Lit. for Upper Elem. & Mid. Level Learners ♣	3			VL
e. ELU 331 Teaching & Assessing Literacy for Middle Level Learners across Academic Disciplines ♣ Teacher Candidacy Required (Pre-req. For Prosem)	3			

6. Social Studies 15 S.H. (Choose one from each line)				
American History – HIS 025	#			
Economics – ECO 010, ECO 011 or ECO 012	#			
American History – HIS 026	3			
World History – HIS 014	3			CD
World History – HIS 015	3			
Geography – GEG 010, GEG 020 (CD), or GEG 101	3			
Constitutional History of the US – HIS 310	3			

VI. CLINICAL COMPONENT (27 credits)

RC CR GR CAC

A. Professional Semester – Teacher Candidacy Required Courses scheduled in a block Fall or Spring 15 S.H.				
ELU 342 Teaching Writing at the Middle Level ♣	3			WI
ELU 344 Teach. & Assess. Soc. Studies for Middle Level Learners. ♣	3			
ELU 346 Middle Level Cognitive Development ♣	3			WI
ELU 347 Teach. & Assess. Math for Mid Level Learner♣	3			
ELU 349 Teach. & Assess. Sci. for Mid. Level Learners ♣	3			
B. Clinical Experience Fall or Spring _____ 12 S.H.				
ELU 392 Clinical Experience I with Mid. Lev. Learners ♣	6			
ELU 393 Clinical Experience II with Mid. Lev. Learners♣	6			

- Student is receiving credit for course as a General Education requirement.

♣ -These courses require a grade of “C” or better.



COLLEGE OF EDUCATION • BS • LIBRARY SCIENCE

Program Number: UCOELIBS

Effective Date: August 2017

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	
A. Oral Communication: COM 010 or above				
COURSE:	3			
B. Written Communication: ENG 023, 024 or 025				
COURSE:	3			
C. Mathematics: MAT 017 or above				
COURSE:	3			
D. Wellness: Any 3-credit HEA course				
COURSE:	3			

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: POL 010 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGA, or Modern Language				
COURSE: ENG Lit (suggested)	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: PSY 11 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) QTL Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) VTL Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

GENERAL EDUCATION

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)

A Competency across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204,

IV. COLLEGE DISTRIBUTION (18 credits)	RC	CR	GR	CAC
A. MAT				
COURSE: MAT 017 or higher (suggested)	3			
B. LLT 321 Technologies for the 21 st Century Educator	3			
C. 15 credits required by major but fulfilling General Education Requirements				
COURSE:	3			

V. FOUNDATION COURSES (30 credits) RC CR GR CAC

Foundation Courses:				
LLT 200 Foundations of Information Science	3			
LLT 310 Information Resources and Services	3			
LLT 320 Resources for Children and Young Adults	3			
LLT 324 Librarian’s Role in Reading Strategies	3			
LLT 330 Maker Spaces and Technology Enhanced Programming	3			
LLT 390 Internship (Can be taken up to 9 credits)	3			
Specialty Related Electives: Any course with prefix ANT, ART, CSC, HIS, LLT, SOC (or other course with permission of advisor)				
COURSE:	3			

VI. ELECTIVES (30 credits)

Electives: (18 credits). With their advisor’s guidance, students are encouraged to select an appropriate minor.				
Course:	3			

Electives: (12 credits). General Education Electives				
Course: Social Science: ANT, HIS, ECO, GEG (non-lab), PSY, POL, SOC, CRJ, or SWK	3			
COURSE: Humanities: PAG, ENG, WRI, or HUM	3			
COURSE: Humanities: MLS, GER, SPA, FRE, CHI, or ARA) or PHI	3			
COURSE: PAG, MLS, GER, SPA, FRE, CHI, ARA, ENG, WRI, HUM, PHI	3			

VII. CLINICAL COMPONENT – Professional Semester: (15 credits)

LLT 340 Management of Information and Technology Centers	3			
LLT 350 Collecting and Curating Print and Digital Resources	3			
LLT 360 Organization of Information, Metadata, and Library Technologies	3			
LLT 370 Educational Program of the Library	3			
LLT 385 Digital Portfolios	3			



College of Education

Bachelor of Science in Education: Secondary Education – Biology

Program Code: UCOESEUBS
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 122

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 105, 106, 115, 140, 181 or 182 (suggested)		#
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement BIO 104 (suggested)		#
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 105, 106, 115, 140, 181 or 182 (suggested)		#
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: BIO 106 (suggested)		#
COURSE: BIO 108 (suggested)		#
COURSE: CHM 100 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	
COURSE: SEU 342	#
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Biology

Program Code: UCOESEUBS
Version Number: 2168-Fall 2016

V. SPECIALIZATION: 57-60 S.H.		
1. Required Courses: 35-36 S.H.	GR.	S.H.
BIO 104 Principles of Biology #		4
BIO 106 Introduction to Zoology #		4
BIO 108 Introduction to Botany #		4
BIO 222WI Environmental Biology		3
BIO 224 Applied Environmental Microbiology		3
Choose one of the following: BIO 218 Vertebrate Biology BIO 302 Entomology BIO 308 Ornithology BIO 314 Animal Behavior BIO 316 Invertebrate Biology BIO 342 Herpetology		3
Choose one of the following: BIO 230 Taxonomy of Vascular Plants BIO 232 Plant Physiology BIO 324 Plant Ecology		3
Choose one of the following: BIO 228 Human Physiology BIO 300 Comparative Animal Physiology BIO 320 Physiological Ecology of Animals		3
BIO 216QL Genetics		3
Choose one of the following: BIO 252 Cellular Physiology and Metabolism BIO 346 Molecular Biology BIO 350 Cell Biology BIO 356 Immunology BIO 460 Cancer Biology		3
Choose one of the following: BIO 270CTWI Research in Methods BIO 370 Research in Biology BIO 380 Senior Seminar in Biology ENV 380 Senior Seminar in Environmental Science		2-3
Total		36
2. Physical Science Requirements: 16 S.H.		
CHM 100 General Chemistry I #		4
CHM 102 General Chemistry II		4
CHM 204 Fundamentals of Organic Chemistry OR CHM 214VL Organic Chemistry I		4
PHY 040 General Physics I		4
Total		16
3. Mathematics Requirements: 6-8 S.H.		
Select one course from each of the following blocks:		
<i>Select one of the following courses:</i> #		
MAT 105 College Algebra MAT 106 Trigonometry MAT 115 Precalculus Mathematics MAT 181 Calculus I		3-4
<i>Select one of the following courses:</i> #		
MAT 140 Applied Statistical Methods PSY 200 Statistics for the Social and Behavioral Sciences MAT 181 Calculus I MAT 182 Calculus II		3-4

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	GR.	S.H.
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
¹ SEU 312 Principles of Learning		3
¹ SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312)		3
¹ SEU 342 Principles of Teaching		3
¹ SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342)		3
EDU 326 Introduction to Middle Level Education		3
¹ SEU 410 Science Instructional Methods for Middle and High School		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.



College of Education

**Bachelor of Science in Education: Secondary Education – Biology
Special Education Dual Certificate**

Program Code: **UCOESEUSBI**
 Version Number: **2168-Fall 2016**
 Program Effective: **August 29, 2016**
 Credit Total: **138**

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 105, 106, 115, 140, 181 or 182 (suggested)		#
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY ; or certain GEG courses with advisement BIO 104 (suggested)		#
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK ; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit SPU 316 (suggested)		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math : MAT 105, 106, 115, 140, 181 or 182 (suggested)		#
b. Special Education : SPU 201 Cognitive Development		3
c. Technology : ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: BIO 106 (suggested)		#
COURSE: BIO 108 (suggested)		#
COURSE: CHM 100 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses) COURSE: SEU 312 COURSE: SEU 342 COURSE: SEU 321-325, 410	#
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits) COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits) COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits) COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits) COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Biology Special Education Dual Certificate

Program Code: UCOESEUSBI
Version Number: 2168-Fall 2016

V. SPECIALIZATION: 57-60 S.H.		
1. Required Courses: 35-36 S.H.		
BIO 104 Principles of Biology	#	4
BIO 106 Introduction to Zoology	#	4
BIO 108 Introduction to Botany	#	4
BIO 222WI Environmental Biology		3
BIO 224 Applied Environmental Microbiology		3
Choose one of the following: BIO 218 Vertebrate Biology BIO 302 Entomology BIO 308 Ornithology BIO 314 Animal Behavior BIO 316 Invertebrate Biology BIO 342 Herpetology		3
Choose one of the following: BIO 230 Taxonomy of Vascular Plants BIO 232 Plant Physiology BIO 324 Plant Ecology		3
Choose one of the following: BIO 228 Human Physiology BIO 300 Comparative Animal Physiology BIO 320 Physiological Ecology of Animals		3
BIO 216QL Genetics		3
Choose one of the following: BIO 252 Cellular Physiology and Metabolism BIO 346 Molecular Biology BIO 350 Cell Biology BIO 356 Immunology BIO 460 Cancer Biology		3
Choose one of the following: BIO 270CTWI Research in Methods BIO 370 Research in Biology BIO 380 Senior Seminar in Biology ENV 380 Senior Seminar in Environmental Science		2-3
Total		36
2. Physical Science Requirements: 16 S.H.		
CHM 100 General Chemistry I	#	4
CHM 102 General Chemistry II		4
CHM 204 Fundamentals of Organic Chemistry OR CHM 214VL Organic Chemistry I		4
PHY 040 General Physics I		4
Total		16
3. Mathematics Requirements: 6-8 S.H.		
Select one course from each of the following blocks:		
<i>Select one of the following courses:</i>		
MAT 105 College Algebra MAT 106 Trigonometry MAT 115 Precalculus Mathematics MAT 181 Calculus I	#	3-4
<i>Select one of the following courses:</i>		
MAT 140 Applied Statistical Methods PSY 200 Statistics for the Social and Behavioral Sciences MAT 181 Calculus I MAT 182 Calculus II	#	3-4

Courses cross-list with General Education

VI. Clinical Component: 31 S.H.	GR.	S.H.
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
¹ SEU 312 Principles of Learning		3
¹ SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312)		3
¹ SEU 342 Principles of Teaching		3
¹ SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342)		3
EDU 326 Introduction to Middle Level Education		3
¹ SEU 410 Science Instructional Methods for Middle and High School		3
SEU 390 or 391 Clinical Experience and Practicum I or II		6
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.

VII. Special Education Certification Courses: 33 S.H.	GR	S.H
SPU 201 Cognitive Development of Diverse Learners in a Standards-Aligned System		#
SPU 315 Building Collaborative Networks to Support Secondary Students with Disabilities or SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		#
SPU 316 Literacy Development and Instruction in Core and Intervention Areas		#
SPU 317 Intensive Reading, Writing and Mathematics Intervention Approaches		3
SPU 318 Assessment and Instructional Methods for Students with Disabilities		3
SPU 320 Special Education Processes and IEP Development		3
SPU 322 Teaching Students with High Incidence Disabilities		3
SPU 328 Positive Behavioral Intervention & Supports		3
SPU 330 Teaching Students with Low Incidence Disabilities		3
SPU 392 or 393 Clinical Experience and Practicum I or II		6



College of Education

Bachelor of Science in Education: Secondary Education – Chemistry

Program Code: UCOESEUCM
 Version Number: 2168-Fall 2016
 Program Effective: August 29, 2016
 Credit Total: 122

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 181 (suggested)		#
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement BIO 104 (suggested)		#
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit CHM 100 (suggested)		#

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 182 (suggested)		#
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: CHM 102 (suggested)		#
COURSE: CHM 214 (suggested)		#
COURSE: CHM 216 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	
COURSE: SEU 342	#
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Chemistry

Program Code: UCOESEUCM

Version Number: 2168-Fall 2016

V. SPECIALIZATION: 64-66 S.H.		
1. Required Courses: 58 S.H.	GR.	S.H
BIO 104 Principles of Biology	#	4
CHM 100 General Chemistry I	#	4
CHM 102 General Chemistry II	#	4
CHM 214VL Organic Chemistry I	#	4
CHM 216WI Organic Chemistry II	#	4
CHM 230QLWI Analytical Chemistry I		4
CHM 314 Physical Chemistry I		4
CHM 316 Physical Chemistry II		4
CHM 320 Advanced Inorganic Chemistry I		4
CHM 340 Analytical Chemistry II		4
CHM 380 Senior Seminar in Chemistry		2
MAT 181 Calculus I	#	4
MAT 182 Calculus II	#	4
PHY 100 Physics I		4
PHY 102 Physics II		4
Total		
2. Electives: 3-4 S.H. to be selected from the following:		
CHM 310 Biochemistry I		4
CHM 312 Biochemistry II		4
CHM 326 Advanced Organic Chemistry – Mechanisms		3
CHM 336 Advanced Physical Chemistry		3
CHM 351 Selected Topics		1-6
CHM 370 Research in Chemistry I		1-3*
CHM 371 Research in Chemistry II		1-3*
CHM 390 Internship in Chemistry		1-4
Total		
3. Earth Science: 3-4 S.H. to be selected from the following:		
AST 140QL Planetary Science		3
AST 142 Stellar and Galactic Astronomy		3
GEG 204 Meteorology		3
GEL 100 Physical Geology		4
MAR 110 Introduction to Oceanography		3
Total		

*Combined credit total toward the BSED SEU Chemistry degree for CHM 370 and CHM 371 may not exceed 4 S.H.

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
SEU 410 Science Instructional Methods for Middle and High School ¹		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.



College of Education

Bachelor of Science in Education: Secondary Education – English

Program Code: UCOESEUEN
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 121

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 100 (English Literature) (suggested)		#
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: ENG 230 (suggested)		#
COURSE: ENG 106 (suggested)		#
COURSE: ENG 225 (suggested)		#
COURSE: ENG 334 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	#
COURSE: SEU 342	
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – English

Program Code: UCOESEUEN

Version Number: 2168-Fall 2016

V. SPECIALIZATION: 51 S.H.		
1. Required Courses: 27 S.H.	GR.	S.H
ENG 100 Principles of Literary Analysis #		3
ENG 105 Experiences in American Literature OR ENG 137 Experiences in African American Literature		3
ENG 106 Experiences in British Literature #		3
ENG 225 Teaching Adolescent Literature #		3
ENG 230 Advanced Composition #		3
ENG 334 Linguistics #		3
ENG 379 Literary Theory		3
ENU 405 Teaching Writing		3
COM 216 Performance of Literature OR THE ____ A Theatre Course		3
Total		
2. Specialization Electives 21 S.H.		
a. ENG 3____ British Literature or Rhetoric Before 1800*		3
b. ENG ____ British Literature or Rhetoric After 1800		3
c. ENG ____ American Literature or Rhetoric		3
d. ENG ____ Genre*		3
e. ENG ____ Diverse Literature or Rhetoric		3
f. ENG ____ World Literature or Rhetoric		3
g. ENG/ENU ____ 200, 300 or 400 level course*		3
*One Shakespeare course must be taken in either 2.a, 2.d. or 2.g.		
Total		
3. Media Elective 3 S.H.		
Select a designated Film, Culture, Media, or Rhetoric course.		3
Total		

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
SEU 321 Methods of Teaching Secondary School Subject: Communication ¹		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.



College of Education

**Bachelor of Science in Education: Secondary Education – English
Special Education Dual Certificate**

Program Code: **UCOESEUSEN**
 Version Number: **2168-Fall 2016**
 Program Effective: **August 29, 2016**
 Credit Total: **138**

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 100 (English Literature) (suggested)		#
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit SPU 316 (suggested)		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: ENG 230 (suggested)		#
COURSE: ENG 106 (suggested)		#
COURSE: ENG 225 (suggested)		#
COURSE: ENG 334 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses) COURSE: SEU 312 COURSE: SEU 342 COURSE: SEU 321-325, 410	#
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits) COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits) COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits) COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits) COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – English Special Education Dual Certificate

Program Code: UCOESEUSEN

Version Number: 2168-Fall 2016

V. SPECIALIZATION: 51 S.H.		
1. Required Courses: 27 S.H.		
ENG 100 Principles of Literary Analysis #		3
ENG 105 Experiences in American Literature OR ENG 137 Experiences in African American Literature		3
ENG 106 Experiences in British Literature #		3
ENG 225 Teaching Adolescent Literature #		3
ENG 230 Advanced Composition #		3
ENG 334 Linguistics #		3
ENG 379 Literary Theory		3
ENU 405 Teaching Writing		3
COM 216 Performance of Literature OR THE ____ A Theatre Course		3
Total		
2. Specialization Electives 21 S.H.		
a. ENG 3____ British Literature or Rhetoric Before 1800*		3
b. ENG ____ British Literature or Rhetoric After 1800		3
c. ENG ____ American Literature or Rhetoric		3
d. ENG ____ Genre*		3
e. ENG ____ Diverse Literature or Rhetoric		3
f. ENG ____ World Literature or Rhetoric		3
g. ENG/ENU ____ 200, 300 or 400 level course*		3
*One Shakespeare course must be taken in either 2.a, 2.d. or 2.g.		
Total		
3. Media Elective 3 S.H.		
Select a designated Film, Culture, Media, or Rhetoric course.		3
Total		

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.		GR	S.H
EDU 100 Perspectives on American Education			3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings			3
SEU 312 Principles of Learning ¹			3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹			3
SEU 342 Principles of Teaching ¹			3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹			3
EDU 326 Introduction to Middle Level Education			3
SEU 321 Methods of Teaching Secondary School Subject: Communication ¹			3
SEU 390 or 391 Clinical Experience and Practicum I or II			6
EDU 392 Managing an Inclusive Classroom			1
Total			

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.

VII. Special Education Certification Courses: 33 S.H.		GR	S.H
SPU 201 Cognitive Development of Diverse Learners in a Standards-Aligned System			#
SPU 315 Building Collaborative Networks to Support Secondary Students with Disabilities or SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings			#
SPU 316 Literacy Development and Instruction in Core and Intervention Areas			#
SPU 317 Intensive Reading, Writing and Mathematics Intervention Approaches			3
SPU 318 Assessment and Instructional Methods for Students with Disabilities			3
SPU 320 Special Education Processes and IEP Development			3
SPU 322 Teaching Students with High Incidence Disabilities			3
SPU 328 Positive Behavioral Intervention & Supports			3
SPU 330 Teaching Students with Low Incidence Disabilities			3
SPU 392 or 393 Clinical Experience and Practicum I or II			6



College of Education

Bachelor of Science in Education: Secondary Education – General Science

Program Code: UCOESEUG
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 121

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 105, 106, 115 or 140 (suggested)		#
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 105, 106, 115 or 140 (suggested)		#
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: BIO 106 (suggested)		#
COURSE: BIO 108 (suggested)		#
COURSE: CHM 100 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	#
COURSE: SEU 342	
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – General Science

Program Code: UCOESEUG
Version Number: 2168-Fall 2016

V. SPECIALIZATION: 51 S.H.		
1. Required Courses: 40 S.H.	GR	S.H
BIO 104 Principles of Biology #		4
BIO 106 Introduction to Zoology#		4
BIO 108 Introduction to Botany #		4
CHM 100 General Chemistry I #		4
CHM 102 General Chemistry II		4
GEL 100 Physical Geology		4
<i>Select one of the following two courses:</i>		
AST 140QL Planetary Science		3
or		
AST 142 Stellar and Galactic Astronomy		
GEG 204 Meteorology		3
PHY 040 General Physics I		4
ENV 100 Introduction to Environmental Science		3
ENV 222 Environmental Biology		3
Total		
2. Biology Elective (lab course beyond 010): 3 S.H.		
BIO		3
3. Physical Science Electives: 9 S. H. (GEL, CHM, PHY, AST, ENV)		
		3
		3
		3
4. Mathematics: 6 - 9 S. H.		
#		
MAT 105 College Algebra and		3
MAT 106 Trigonometry and		3
MAT 140 Applied Statistical Methods		3
OR		
MAT 115 Precalculus Mathematics and		3
MAT 140 Applied Statistical Methods		3
Total		

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	G R	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
SEU 410 Science Instructional Methods for Middle and High School ¹		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.



College of Education

**Bachelor of Science in Education: Secondary Education – General Science
Special Education Dual Certificate**

Program Code: **UCOESEUSGS**
 Version Number: **2168-Fall 2016**
 Program Effective: **August 29, 2016**
 Credit Total: **136**

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 105, 106, 115 or 140 (suggested)		#
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit SPU 316 (suggested)		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 105, 106, 115 or 140 (suggested)		#
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: BIO 106 (suggested)		#
COURSE: BIO 108 (suggested)		#
COURSE: CHM 100 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses) COURSE: SEU 312 COURSE: SEU 342 COURSE: SEU 321-325, 410	#
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits) COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits) COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits) COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits) COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – General Science Special Education Dual Certificate

Program Code: UCOESEUSGS

Version Number: 2168-Fall 2016

V. SPECIALIZATION: 51 S.H.		
1. Required Courses: 40 S.H.	GR.	S.H
BIO 104 Principles of Biology #		4
BIO 106 Introduction to Zoology#		4
BIO 108 Introduction to Botany #		4
CHM 100 General Chemistry I #		4
CHM 102 General Chemistry II		4
GEL 100 Physical Geology		4
<i>Select one of the following two courses:</i>		
AST 140QL Planetary Science		3
or		
AST 142 Stellar and Galactic Astronomy		
GEG 204 Meteorology		3
PHY 040 General Physics I		4
ENV 100 Introduction to Environmental Science		3
ENV 222 Environmental Biology		3
Total		
2. Biology Elective (lab course beyond 010): 3 S.H.		
BIO		3
3. Physical Science Electives: 9 S. H. (GEL, CHM, PHY, AST, ENV)		
		3
		3
		3
4. Mathematics: 6 - 9 S. H. #		
MAT 105 College Algebra and		3
MAT 106 Trigonometry and		3
MAT 140 Applied Statistical Methods		3
OR		
MAT 115 Precalculus Mathematics and		3
MAT 140 Applied Statistical Methods		3
Total		

Courses cross-list with General Education

VI. Clinical Component: 31 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
SEU 410 Science Instructional Methods for Middle and High School ¹		3
SEU 390 or 391 Clinical Experience and Practicum I or II		6
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.

VII. Special Education Certification Courses: 33 S.H.	GR	S.H
SPU 201 Cognitive Development of Diverse Learners in a Standards-Aligned System		#
SPU 315 Building Collaborative Networks to Support Secondary Students with Disabilities or SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		#
SPU 316 Literacy Development and Instruction in Core and Intervention Areas		#
SPU 317 Intensive Reading, Writing and Mathematics Intervention Approaches		3
SPU 318 Assessment and Instructional Methods for Students with Disabilities		3
SPU 320 Special Education Processes and IEP Development		3
SPU 322 Teaching Students with High Incidence Disabilities		3
SPU 328 Positive Behavioral Intervention & Supports		3
SPU 330 Teaching Students with Low Incidence Disabilities		3
SPU 392 or 393 Clinical Experience and Practicum I or II		6



College of Education

Bachelor of Science in Education: Secondary Education – Foreign Language – German

Program Code: UCOESEUGE
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 121

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit EDU 326 (suggested)		#

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: GER 103 (suggested)		#
COURSE: GER 104 (suggested)		#
COURSE: GER 211 (suggested)		#
COURSE: GER 212 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	#
COURSE: SEU 342	
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Foreign Language – German

Program Code: UCOESEUGE
Version Number: 2168-Fall 2016

V. SPECIALIZATION: 48 S.H.		
1. Required Courses: 24 S.H.	GR.	S.H
GER 103 Intermediate German III #		3
GER 104 Intermediate German IV #		3
GER 211 German Composition and Conversation I #		3
GER 212 German Composition and Conversation II #		3
GER 220 Applied Linguistics in German #		3
GER 340 German Culture and Civilization		3
GER 380 Senior Seminar		3
GER ____ A Literature Course		3
Total		
2. Specialization Electives 24 S.H. (Selected from below)		
GER 213 Business German		3
GER 230 The German Fairy Tale		3
GER 232 The German Graphic Novel		3
GER 301 Survey of German Literature I		3
GER 302 Survey of German Literature II		3
GER 304 German Culture Through Film		3
GER 311 German Literature of 18 th Century		3
GER 312 German Literature of 19 th Century		3
GER 313 German Literature of 20 th Century		3
GER 320 German Short Story		3
GER 325 Advanced Syntax/Stylistics I		3
GER 326 Advanced Syntax/Stylistics II		3
GER 355 Reading and Performing German Drama		3
GER 360 Study Abroad Experience		3
GER 370 Selected Topics in German		3
GER 390 International Internship-German		3-12
GER 420 Professional Translation Skills in German		3
Total		

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	G R	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education #		3
EDU 411 Methods for Teaching Foreign Languages to Early Second Language Learners		3
SEU 322 Methods of Teaching Secondary School Subject: Foreign Language ¹		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.

Notes:

- Modern Language requires successful completion of the Oral Proficiency Interview (OPI) and the Writing Proficiency Test (WPT).
- CAEP and ACTFL prefer that Foreign Languages teacher candidates take OPI and WPT or OPI and Praxis.



College of Education

**Bachelor of Science in Education: Secondary Education – Foreign Language – German
Special Education Dual Certificate**

Program Code: UCOESEUSGR
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 138

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit SPU 316 (suggested)		#

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: GER 103 (suggested)		#
COURSE: GER 104 (suggested)		#
COURSE: GER 211 (suggested)		#

III. Competencies Across the Curriculum	S.H.
COURSE: GER 212 (suggested)	#
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	#
COURSE: SEU 342	
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Foreign Language – German Special Education Dual Certification

Program Code: UCOESEUSGR

Version Number: 2168-Fall 2016

V. SPECIALIZATION: 48 S.H.		
1. Required Courses: 24 S.H.		
GER 103 Intermediate German III #		3
GER 104 Intermediate German IV #		3
GER 211 German Composition and Conversation I #		3
GER 212 German Composition and Conversation II #		3
GER 220 Applied Linguistics in German #		3
GER 340 German Culture and Civilization		3
GER 380 Senior Seminar		3
GER ____ A Literature Course		3
Total		
2. Specialization Electives 24 S.H. (Selected from below)		
GER 213 Business German		3
GER 230 The German Fairy Tale		3
GER 232 The German Graphic Novel		3
GER 301 Survey of German Literature I		3
GER 302 Survey of German Literature II		3
GER 304 German Culture Through Film		3
GER 311 German Literature of 18 th Century		3
GER 312 German Literature of 19 th Century		3
GER 313 German Literature of 20 th Century		3
GER 320 German Short Story		3
GER 325 Advanced Syntax/Stylistics I		3
GER 326 Advanced Syntax/Stylistics II		3
GER 355 Reading and Performing German Drama		3
GER 360 Study Abroad Experience		3
GER 370 Selected Topics in German		3
GER 390 International Internship-German		3-12
GER 420 Professional Translation Skills in German		3
Total		

Courses cross-list with General Education

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.

Notes:

- Modern Language requires successful completion of the Oral Proficiency Interview (OPI) and the Writing Proficiency Test (WPT).
- CAEP and ACTFL prefer that Foreign Languages teacher candidates take OPI and WPT or OPI and Praxis.

VI. Clinical Component: 31 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
EDU 411 Methods for Teaching Foreign Languages to Early Second Language Learners		3
SEU 322 Methods of Teaching Secondary School Subject: Foreign Language ¹		3
SEU 390 or 391 Clinical Experience and Practicum I or II		6
EDU 392 Managing an Inclusive Classroom		1
Total		

VII. Special Education Certification Courses: 33 S.H.	GR	S.H
SPU 201 Cognitive Development of Diverse Learners in a Standards-Aligned System		#
SPU 315 Building Collaborative Networks to Support Secondary Students with Disabilities or SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		#
SPU 316 Literacy Development and Instruction in Core and Intervention Areas		#
SPU 317 Intensive Reading, Writing and Mathematics Intervention Approaches		3
SPU 318 Assessment and Instructional Methods for Students with Disabilities		3
SPU 320 Special Education Processes and IEP Development		3
SPU 322 Teaching Students with High Incidence Disabilities		3
SPU 328 Positive Behavioral Intervention & Supports		3
SPU 330 Teaching Students with Low Incidence Disabilities		3
SPU 392 or 393 Clinical Experience and Practicum I or II		6



College of Education

Bachelor of Science in Education: Secondary Education – Mathematics

Program Code: UCOESEUMA
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 121

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: MAT 220 (suggested)		#
COURSE: MAT 240 (suggested)		#
COURSE: MAT 301 (suggested)		#
COURSE: MAT 311 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	#
COURSE: SEU 342	
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Mathematics

Program Code: UCOESEUMA
Version Number: 2168-Fall 2016

V. SPECIALIZATION: 48 S.H.		
1. Required Courses: 36 S.H.	GR.	S.H
CSC 135 Computer Science I		3
MAT 181 Calculus I		4
MAT 182 Calculus II		4
MAT 220 History of Mathematics #		3
MAT 224 Foundations of Higher Mathematics		3
MAT 240 Synthetic Geometry #		3
MAT 260 Linear Algebra		3
MAT 283 Calculus III		4
MAT 301 Probability and Statistics I #		3
MAT 302 Probability and Statistics II		3
MAT 311 Abstract Algebra I #		3
MAT 351 Advanced Calculus I		3
Total		
2. Mathematics: 9 S. H.		
Select either three MAT courses (300 or higher) OR one CSC course (136 or higher) and two MAT courses (300 or higher):		
		3
		3
		3
Total		

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
SEU 323 Methods of Teaching Secondary School Subject: Mathematics ¹		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.



College of Education

**Bachelor of Science in Education: Secondary Education – Mathematics
Special Education Dual Certificate**

Program Code: UCOESEUSMT
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 139

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit SPU 316 (suggested)		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: MAT 220 (suggested)		#
COURSE: MAT 240 (suggested)		#
COURSE: MAT 301 (suggested)		#
COURSE: MAT 311 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses) COURSE: SEU 312 COURSE: SEU 342 COURSE: SEU 321-325, 410	#
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits) COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits) COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits) COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits) COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Mathematics Special Education Dual Certificate

Program Code: UCOESEUSMT

Version Number: 2168-Fall 2016

V. SPECIALIZATION: 48 S.H.		
1. Required Courses: 36 S.H.		
	GR.	S.H
CSC 135 Computer Science I		3
MAT 181 Calculus I		4
MAT 182 Calculus II		4
MAT 220 History of Mathematics #		3
MAT 224 Foundations of Higher Mathematics		3
MAT 240 Synthetic Geometry #		3
MAT 260 Linear Algebra		3
MAT 283 Calculus III		4
MAT 301 Probability and Statistics I #		3
MAT 302 Probability and Statistics II		3
MAT 311 Abstract Algebra I #		3
MAT 351 Advanced Calculus I		3
Total		
2. Mathematics: 9 S. H.		
Select either three MAT courses (300 or higher) OR one CSC course (136 or higher) and two MAT courses (300 or higher):		
		3
		3
		3
Total		

Courses cross-list with General Education

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.

VI. Clinical Component: 31 S.H.		GR	S.H
EDU 100 Perspectives on American Education			3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings			3
SEU 312 Principles of Learning ¹			3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹			3
SEU 342 Principles of Teaching ¹			3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹			3
EDU 326 Introduction to Middle Level Education			3
SEU 323 Methods of Teaching Secondary School Subject: Mathematics ¹			3
SEU 390 or 391 Clinical Experience and Practicum I or II			6
EDU 392 Managing an Inclusive Classroom			1
Total			

VII. Special Education Certification Courses: 33 S.H.		GR	S.H
SPU 201 Cognitive Development of Diverse Learners in a Standards-Aligned System			#
SPU 315 Building Collaborative Networks to Support Secondary Students with Disabilities or SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings			#
SPU 316 Literacy Development and Instruction in Core and Intervention Areas			#
SPU 317 Intensive Reading, Writing and Mathematics Intervention Approaches			3
SPU 318 Assessment and Instructional Methods for Students with Disabilities			3
SPU 320 Special Education Processes and IEP Development			3
SPU 322 Teaching Students with High Incidence Disabilities			3
SPU 328 Positive Behavioral Intervention & Supports			3
SPU 330 Teaching Students with Low Incidence Disabilities			3
SPU 392 or 393 Clinical Experience and Practicum I or II			6



College of Education
Bachelor of Science in Education: Physics

Program Code: UCOESEUPY Version Number: 2168-Fall 2016 Program Effective: August 29, 2016 Credit Total: 123
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GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 181 (suggested)		#
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement BIO 104 (suggested)		#
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: PHY 100 (suggested)		#

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 182 (suggested)		#
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: CHM 100 (suggested)		#
COURSE: CHM 102 (suggested)		#
COURSE: MAT 283 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses) COURSE: SEU 312	
COURSE: SEU 342	#
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S.Ed. – Physics

Program Code: UCOESEUPY

Version Number: 2168-Fall 2016

V. SPECIALIZATION: 66-68 S.H.		
1. Required Courses: 63-64 S.H.	GR.	S.H.
BIO 104 Principles of Biology	#	4
CHM 100 General Chemistry I	#	4
CHM 102 General Chemistry II	#	4
MAT 181 Calculus I	#	4
MAT 182 Calculus II	#	4
MAT 283 Calculus III	#	4
MAT 340 Differential Equations		3
PHY 100 Physics I	#	4
PHY 102 Physics II		4
PHY 212 Modern Physics I		3
PHY 214 Modern Physics II		3
PHY 327 Thermodynamics and Statistical Mechanics		3 / 4
OR		
CHM 314 Physical Chemistry I		
PHY 220 Electronics		3
PHY 230 Optics		3
PHY 245 Mathematical Physics I		3
PHY 312 Classical Mechanics I		4
PHY 315 Advanced Physics Lab		3
PHY 316 Electricity and Magnetism		3
Total		
2. Electives: 3-4 S.H. to be selected from the following:		
AST 140 Planetary Science		3
AST 142 Stellar and Galactic Astronomy		3
CHM 316 Physical Chemistry II		4
EGR 121 Eng. Draw. & Lettering		3
GEL 358 Gen. Geophysics		3
MAT 260 Linear Algebra		3
MAT 301 Probability and Statistics I		3
PHY 290 Introduction to Nanotechnology		3
PHY 314 Classical Mechanics II		2
PHY 315 Advanced Physics Lab		3
PHY 345 Mathematical Physics II		3
PHY 362/472 Solid State Physics		3
PHY 364/474 Nuclear Physics		3
PHY 370 Research in Physics		1-4
PHY 372-375 Selected Topics in Physics		1-5
PHY 360/470 Quantum Mechanics		3
PHY 380 Senior Seminar		3
Total		

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
SEU 410 Science Instructional Methods for Middle and High School ¹		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.



College of Education

Bachelor of Science in Education: Secondary Education – Physics & Mathematics

Program Code: UCOESEUPM
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 125

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 181 (suggested)		#
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement BIO 104 (suggested)		#
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: PHY 100 (suggested)		#

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 182 (suggested)		#
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: CHM 100 (suggested)		#
COURSE: CHM 102 (suggested)		#
COURSE: MAT 283 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	#
COURSE: SEU 342	
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Physics & Mathematics

Program Code: UCOESEUPM
Version Number: 2168-Fall 2016

V. SPECIALIZATION: 69 S.H.			
1. Required Courses: 66 S.H.		GR.	S.H
BIO 104 Principles of Biology	#		4
CHM 100 General Chemistry I	#		4
CHM 102 General Chemistry II	#		4
MAT 181 Calculus I	#		4
MAT 182 Calculus II	#		4
MAT 224 Foundations of Higher Mathematics			3
MAT 240 Synthetic Geometry			3
MAT 260 Linear Algebra			3
MAT 283 Calculus III	#		4
MAT 301 Probability and Statistics I			3
MAT 311 Abstract Algebra I			3
MAT 340 Differential Equations			3
PHY 100 Physics I	#		4
PHY 102 Physics II			4
PHY 212 Modern Physics I			3
PHY 312CT Classical Mechanics I			4
PHY 315WI Advanced Physics Laboratory			3
PHY 316QL Electricity and Magnetism I			3
Select one of the following two courses:			
CSC 123 Introduction to Scientific Programming			3
CSC 135 Computer Science I			
Total			
2. Electives: 3 S.H. to be selected from the following:			
Choose one course from the following:			
PHY 220WI Electronics			3
PHY 230 Optics			3
PHY 327 Thermodynamics and Statistical Mechanics			3
PHY 360 Quantum Mechanics I			3
Total			

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education (recommended)		
SEU 410 Science Instructional Methods for Middle and High School ¹		3
SEU 323 Methods of Teaching Secondary School Subject: Mathematics ¹		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.



College of Education

Bachelor of Science in Education: Secondary Education – Social Studies

Program Code: UCOESEUSS
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 121

GENERAL EDUCATION

I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement PSY 011 (suggested)		#
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit		3

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses) COURSE: SEU 312	#
COURSE: SEU 342	
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits) COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits) COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits) COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits) COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: HIS 014 (suggested)		#
COURSE: HIS 015 (suggested)		#
COURSE: HIS 025 (suggested)		#
COURSE: HIS 026 (suggested)		#

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Social Studies

Program Code: UCOESEUSS

Version Number: 2168-Fall 2016

V. SPECIALIZATION: 54 S.H.			
1. Required Courses: 18 S.H.			
HIS 014 History of Civilization A	#		3
HIS 015 History of Civilization B	#		3
HIS 025 U.S. Formative Years & The Federal Republic	#		3
HIS 026 History of the US: The Emergence of Modern America	#		3
History of Asia/Middle East/Africa/ Latin America			3
History of Women and/or Diverse Populations			3
Total			
2. Required Geography: 6 S.H.			
GEG 010 Elements of Physical Geography			3
GEG 020 Elements of Cultural Geography			3
3. Required Civics & Government: 6 S.H.			
POL 010 American Government			3
POL 020 or 030 (Intl. Relations or Comparative Politics)			3
4. Required Social Sciences: 6 S.H.			
SOC 010 Principles of Sociology			3
ANT 010 Cultural Anthropology			3
5. Required Economics: 3 S.H.			
ECO 010 Introduction to Economics			3
6. Required Psychology: 3 S.H.			
PSY 011 General Psychology	#		3
7. Specialized Electives: 9 S.H.			
<i>In addition to the required courses listed above, students must take nine semester hours at the 200 level to above to specialize in one of the following areas: anthropology, geography, history, political science, psychology or sociology.</i>			
			3
			3
			3
8. Methodology Requirements: 3 S.H.			
<i>Based on the courses taken under category 7. Specialized Electives, students are required to take one of the following methodology courses:</i>			
HIS 378 Seminar in Historical Methods			3
PSY 270 Experimental Psychology			3
GEG 375 Research Methods in Geography			3
POL 226 Empirical Political Analysis			3
SOC 350 Methods of Social research			3
ANT 201 Archaeological Theory and Technique			3
Total			

Courses cross-list with General Education

VI. Clinical Component: 37 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
SEU 325 Methods of Teaching Secondary School Subject: Social Studies ¹		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.



College of Education

**Bachelor of Science in Education: Secondary Education – Social Studies
Special Education Dual Certificate**

Program Code: **UCOESEUSSS**
 Version Number: **2168-Fall 2016**
 Program Effective: **August 29, 2016**
 Credit Total: **142**

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement PSY 011 (suggested)		#
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit SPU 316 (suggested)		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: HIS 014 (suggested)		#
COURSE: HIS 015 (suggested)		#
COURSE: HIS 025 (suggested)		#
COURSE: HIS 026 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses) COURSE: SEU 312 COURSE: SEU 342 COURSE: SEU 321-325, 410	#
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits) COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits) COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits) COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits) COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Social Studies Special Education Dual Certificate

Program Code: UCOESEUSSS

Version Number: 2168-Fall 2016

V. SPECIALIZATION: 54 S.H.		
1. Required Courses: 18 S.H.		
HIS 014 History of Civilization A	#	3
HIS 015 History of Civilization B	#	3
HIS 025 U.S. Formative Years & The Federal Republic	#	3
HIS 026 History of the US: The Emergence of Modern America	#	3
History of Asia/Middle East/Africa/ Latin America		3
History of Women and/or Diverse Populations		3
Total		
2. Required Geography: 6 S.H.		
GEG 010 Elements of Physical Geography		3
GEG 020 Elements of Cultural Geography		3
3. Required Civics & Government: 6 S.H.		
POL 010 American Government		3
POL 020 or 030 (Intl. Relations or Comparative Politics)		3
4. Required Social Sciences: 6 S.H.		
SOC 010 Principles of Sociology		3
ANT 010 Cultural Anthropology		3
5. Required Economics: 3 S.H.		
ECO 010 Introduction to Economics		3
6. Required Psychology: 3 S.H.		
PSY 011 General Psychology	#	3
7. Specialized Electives: 9 S.H.		
<i>In addition to the required courses listed above, students must take nine semester hours at the 200 level to above to specialize in one of the following areas: anthropology, geography, history, political science, psychology or sociology.</i>		
		3
		3
		3
8. Methodology Requirements: 3 S.H.		
<i>Based on the courses taken under category 7. Specialized Electives, students are required to take one of the following methodology courses:</i>		
HIS 378 Seminar in Historical Methods		3
PSY 270 Experimental Psychology		3
GEG 375 Research Methods in Geography		3
POL 226 Empirical Political Analysis		3
SOC 350 Methods of Social research		3
ANT 201 Archaeological Theory and Technique		3
Total		

Courses cross-list with General Education

VI. Clinical Component: 31 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
SEU 325 Methods of Teaching Secondary School Subject: Social Studies ¹		3
SEU 390 or 391 Clinical Experience and Practicum I or II		6
EDU 392 Managing an Inclusive Classroom		1
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.

VII. Special Education Certification Courses: 33 S.H.	GR	S.H
SPU 201 Cognitive Development of Diverse Learners in a Standards-Aligned System		#
SPU 315 Building Collaborative Networks to Support Secondary Students with Disabilities <i>or</i> SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		#
SPU 316 Literacy Development and Instruction in Core and Intervention Areas		#
SPU 317 Intensive Reading, Writing and Mathematics Intervention Approaches		3
SPU 318 Assessment and Instructional Methods for Students with Disabilities		3
SPU 320 Special Education Processes and IEP Development		3
SPU 322 Teaching Students with High Incidence Disabilities		3
SPU 328 Positive Behavioral Intervention & Supports		3
SPU 330 Teaching Students with Low Incidence Disabilities		3
SPU 392 or 393 Clinical Experience and Practicum I or II		6



College of Education

Bachelor of Science in Education: Secondary Education – Foreign Language – Spanish

Program Code: UCOESEUSA
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 121

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit EDU 326 (suggested)		#

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: SPA 103 (suggested)		#
COURSE: SPA 104 (suggested)		#
COURSE: SPA 212 (suggested)		#
COURSE: SPA 220 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	#
COURSE: SEU 342	
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Foreign Language – Spanish

Program Code: UCOESEUSA
Version Number: 2168-Fall 2016

V. SPECIALIZATION: 48 S.H.		
1. Required Courses: 21 S.H.		
Course	GR.	S.H
SPA 103 Intermediate Spanish III #		3
SPA 104 Intermediate Spanish IV #		3
SPA 212 Spanish Composition #		3
SPA 213 Spanish Conversation OR SPA 214 Spa Conv Heritage Speakers *		3
SPA 220 Applied Linguistics in Spanish #		3
SPA 325 Advanced Syntax & Stylistics		3
SPA 380 Senior Seminar		3
Total		
2. Specialization Electives Minimum 27 S.H. (Selected from below)		
Minimum 3 courses selected from group below		
SPA 301 Survey of Spanish Literature I		3
SPA 302 Survey of Spanish Literature II		3
SPA 315 Rebels and Romantics		3
SPA 320 Contemporary Spanish Novel		3
SPA 330 Contemporary Spanish Drama		3
SPA 339 Latin American Pop Culture		3
SPA 340 Spanish Culture and Civilization		3
SPA 341 Modern Spain 1898 - Present		3
SPA 350 Spanish Drama of the Golden Age		3
SPA 355 Spanish Literature of the Golden Age		3
SPA 431 Mod. Spain through Lit. & Film		3
Minimum 3 courses selected from group below		
SPA 311 Spanish American Literature to 1910		3
SPA 312 Spanish American Literature from 1910 to the Present		3
SPA 345 Latin American Culture & Civ. to the 19 th Century		3
SPA 346 Latin American Culture & Civ. 19 th Century–Present		3
SPA 348 Mexican Culture & Civilization		3
SPA 358 Voices of Central America		3
SPA 368 The Caribbean: Race, Gender		3
SPA 413 Major Spanish American Novelists		3
SPA 414 Major Spanish American Short Story Writers		3
SPA 415 Mexican Lit: Voices of a Nation		3
SPA 435 Modern Latin American Drama		3
SPA 447 Mexican Culture and Civilization		3
Additional Electives		
SPA 225 Intro to Spanish/English Translation		3
SPA 230 Cultural Issues through Film		3
SPA 290 Commercial Spanish		3
SPA 291 Advanced Business Practices and Cultures I		3
SPA 292 Advanced Business Practices and Cultures II		
SPA 343 Bilingualism		3
SPA 360 Study Abroad Experience		1-6
SPA 363 Spanish and Entrepreneurship		3
SPA 370 Selected Topics in Spanish		3
SPA 390 International Internship		3

SPA 395 Independent Study in Spanish		3
SPA 398 Honors Supplementary Research		3
SPA 425 Adv. Spanish Grammar & Composition		3
SPA 460 Hispanic Literature in the USA		3
SPA 461 Spanish for Urban Educators		3
SPA 495 Independent Study in Spanish		3
Total		

VI. Clinical Component: 37 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education #		3
EDU 411 Methods for Teaching Foreign Languages to Early Second Language Learners		3
SEU 322 Methods of Teaching Secondary School Subject: Foreign Language ¹		3
SEU 390/391 Clinical Experience and Practicum I and II		12
EDU 392 Managing an Inclusive Classroom		1
Total		

Courses cross-list with General Education

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.

Notes:

- **Modern Language requires successful completion of the Oral Proficiency Interview (OPI) and the Writing Proficiency Test (WPT).**
- **CAEP and ACTFL prefer that Foreign Languages teacher candidates take OPI and WPT or OPI and Praxis II.**
- **Native and Heritage speakers must choose SPA 214 instead of SPA 213.**



College of Education

**Bachelor of Science in Education: Secondary Education – Foreign Language – Spanish
Special Education Dual Certificate**

Program Code: UCOESEUSSP
Version Number: 2168-Fall 2016
Program Effective: August 29, 2016
Credit Total: 142

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025		3
c. Mathematics: MAT 017 or above (suggested)		3
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses with advisement		3
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested)		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit SPU 316 (suggested)		#

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 017 or above (suggested)		3
b. Special Education: SPU 201 Cognitive Development		3
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: SPA 103 (suggested)		#
COURSE: SPA 104 (suggested)		#
COURSE: SPA 212 (suggested)		#
COURSE: SPA 220 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses)	
COURSE: SEU 312	#
COURSE: SEU 342	
COURSE: SEU 321-325, 410	
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits)	
COURSE: ITC 321	#
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits)	
COURSE: SEU 342	#
D. Cultural Diversity (CD) (3 credits)	
COURSE: SEU 312	#
E. Critical Thinking (CT) (3 credits)	
COURSE: EDU 100	#

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

B.S. in Secondary Education – Foreign Language – Spanish Special Education Dual Certificate

Program Code: UCOESEUSSP
Version Number: 2168-Fall 2016

V. SPECIALIZATION: 48 S.H.			
1. Required Courses: 21 S.H.		GR.	S.H
SPA 103 Intermediate Spanish III	#		3
SPA 104 Intermediate Spanish IV	#		3
SPA 212 Spanish Composition	#		3
SPA 213 Spanish Conversation OR SPA 214 Spa Conv Heritage Speakers *			3
SPA 220 Applied Linguistics in Spanish #			3
SPA 325 Advanced Syntax & Stylistics			3
SPA 380 Senior Seminar			3
Total			
2. Specialization Electives Minimum 27 S.H. (Selected from below)			
Minimum 3 courses selected from group below			
SPA 301 Survey of Spanish Literature I			3
SPA 302 Survey of Spanish Literature II			3
SPA 315 Rebels and Romantics			3
SPA 320 Contemporary Spanish Novel			3
SPA 330 Contemporary Spanish Drama			3
SPA 340 Spanish Culture and Civilization			3
SPA 341 Modern Spain 1898 - Present			3
SPA 350 Spanish Drama of the Golden Age			3
SPA 355 Spanish Literature of the Golden Age			3
SPA 431 Mod. Spain through Lit. & Film			3
Minimum 3 courses selected from group below			
SPA 311 Spanish American Literature to 1910			3
SPA 312 Spanish American Literature of 20 th Century			3
SPA 345 Latin American Culture & Civ. to the 19 th Century			3
SPA 346 Latin American Culture & Civ. 19 th Century–Present			3
SPA 348 Mexican Culture & Civilization			3
SPA 358 Voices of Central America			3
SPA 368 The Caribbean: Race, Gender			3
SPA 413 Major Spanish American Novelists			3
SPA 414 Major Spanish American Short Story Writers			3
SPA 415 Mexican Lit: Voices of a Nation			3
SPA 435 Modern Latin American Drama			3
SPA 447 Mexican Culture and Civilization			3
Additional Electives			
SPA 225 Intro to Spanish/English Translation			3
SPA 230 Cultural Issues through Film			3
SPA 290 Commercial Spanish			3
SPA 343 Bilingualism			3
SPA 360 Study Abroad Experience			1-6
SPA 370 Selected Topics in Spanish			3
SPA 390 International Internship			3
SPA 425 Adv. Spanish Grammar & Composition			3
SPA 460 Hispanic Literature in the USA			3
SPA 461 Spanish for Urban Educators			3
SPA 495 Independent Study in Spanish			3
Total			

Notes:

- Modern Language requires successful completion of the Oral Proficiency Interview (OPI) and the Writing Proficiency Test (WPT).
- CAEP and ACTFL prefer that Foreign Languages teacher candidates take OPI and WPT or OPI and Praxis II.

- Native and Heritage speakers must choose SPA 214 instead of SPA 213.

VI. Clinical Component: 31 S.H.	GR	S.H
EDU 100 Perspectives on American Education		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
SEU 312 Principles of Learning ¹		3
SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312) ¹		3
SEU 342 Principles of Teaching ¹		3
SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342) ¹		3
EDU 326 Introduction to Middle Level Education		3
EDU 411 Methods for Teaching Foreign Languages to Early Second Language Learners		3
SEU 322 Methods of Teaching Secondary School Subject: Foreign Language ¹		3
SEU 390 or 391 Clinical Experience and Practicum I or II		6
EDU 392 Managing an Inclusive Classroom		1
Total		

Courses cross-list with General Education

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B is required.

VII. Special Education Certification Courses: 33 S.H.	GR	S.H
SPU 201 Cognitive Development of Diverse Learners in a Standards-Aligned System		#
SPU 315 Building Collaborative Networks to Support Secondary Students with Disabilities or SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		#
SPU 316 Literacy Development and Instruction in Core and Intervention Areas		#
SPU 317 Intensive Reading, Writing and Mathematics Intervention Approaches		3
SPU 318 Assessment and Instructional Methods for Students with Disabilities		3
SPU 320 Special Education Processes and IEP Development		3
SPU 322 Teaching Students with High Incidence Disabilities		3
SPU 328 Positive Behavioral Intervention & Supports		3
SPU 330 Teaching Students with Low Incidence Disabilities		3
SPU 392 or 393 Clinical Experience and Practicum I or II		6



College of Education

B.S. in Special Education PreK-8 – Elementary Education PreK-4

Program Code: UCOESPUMP
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) **RC CR GR**

A. Oral Communication: COM 010 or above			
COURSE: COM 010 ♦ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 ♦ (suggested)	3		
D. Wellness: any 3-credit HEA course			
COURSE: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits) **RC CR GR CAC**

A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK				
COURSE: PSY 011 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE: ENG LIT ♦ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: GEG or ECO (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM **RC CR GR CAC**

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits) **RC CR GR CAC**

COURSE: SPU 201 Cognitive Development ♦	3			
COURSE: ITC 321 Instructional Technology in Ed. ♦	3			
COURSE: MAT 104 ♦ (suggested)	3			
12 Credits required by major but fulfilling General Education Requirements (suggested courses below)				
COURSE: PSY 110 Child Psychology	3			
COURSE: Diversity - See other side for eligible courses	3			
COURSE: Physical science with/wo lab – any course with prefix AST, CHM, ENV, GEL, MAR, PHY or GEG 204, 323, 324	3			
COURSE: HIS 025 or HIS 026 American History	3			

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Special Education PreK-8 – Elementary Education – PreK-4

Program Code UCOESPUMP Effective Date: August 26, 2013 120 Credits Required

V. CERTIFICATION COURSES (18 credits)

RC CR GR CAC

1. Professional Courses 18 S.H.				
ITC 321 Instructional Technology in Education ♦	#			
ARU 236 The Arts and PreK-4 Education ♦	3			
EEU 130 Early Child Dev.: Theories and Practice ♦	3			
EEU 205 Teaching Science in Early Childhood ♦	3			
EEU 209 Math Foundations for PreK-1 ♦	3			
EEU 211 Family Collaboration and Diversity ♦	3			
EEU 300 Early Literacy Dev. & Acquisition PreK-1 ♦	3			

Diversity Course Requirement Listing:

ANT 010 ANT 130 ANT 215 ANT 226 ANT 290

COM 213

CRJ 230 CRJ 231

HIS 150

INT 010

POL 030

PSY 215 PSY 240

SOC 010 SOC 110 SOC 120 SOC 140 SOC 230

COM 213

(Please note: ANT 130, ANT 290, PSY 215, PSY 240 and SOC 110 have pre-requisites.)

VI. SPECIALIZATION (27 credits)

RC CR GR CAC

1. Special Education 27 S.H.				
SPU 201 Cognitive Dev. Diverse Learners ♦	#			
SPU 101 Early Intervention & Transition Disabilities ♦	3			
SPU 314 Effective Inst. Strat. Disabilities ♦	3			
SPU 316 Literacy Dev. Core & Intervention ♦	3			
^SPU 317 Intensive Reading, Writing and Mathematics ♦	3			
SPU 318 Assessment and Instructional Methods ♦	3			
^SPU 320 Special Education Processes and IEP Dev. ♦	3			
^SPU 322 Teaching Stud. w/ High Incidence Disabilities ♦	3			
SPU 328 Positive Behavioral Intervention & Supports ♦	3			
SPU 330 Teaching Stud. w/ Low Incidence Disabilities ♦	3			

^SPU 317, SPU 320 and SPU 322 must be taken as a block.

VII. CLINICAL COMPONENT (27 credits)

RC CR GR CAC

A. Professional Semester 15 S.H. - Candidacy Required Courses scheduled in a block Fall or Spring _____				
EEU 301 Teaching Literacy in Grades 2- 4 ♦	3			
EEU 303 Language Development in Early Childhood ♦	3			
EEU 304 Teaching Social Studies in PreK-4 ♦	3			
EEU 306 Integrating Principles of Learning in PreK-4♦	3			
EEU 309 Teaching Math in Grades 2-4 ♦	3			
B. Clinical Experience 12 S.H. – Candidacy Required Fall or Spring _____				
SPU 392/393 Clinical Experience MPH I & II ♦	6			
EEU 390/391 Clinical Experience Pre-K-4 I & II ♦	6			

♦ -These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010	MAT 103
ENG 010	MAT 104
GEG 020	PSY 011
HIS 025/026	

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Special Education PreK-8 – Elementary Education 4-8 Math & Eng./Lang. Arts & Rdg.

Program Code: UCOESPUME

Effective Date: August 26, 2013

Version Number: 2138 – Fall 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)

RC CR GR

	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE: COM 010 ♦ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 ♦ (suggested)	3		
D. Wellness: any 3-credit HEA course			
COURSE: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits)

RC CR GR CAC

	RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE: ENG LIT ♦ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: ENG 100 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM

RC CR GR CAC

	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits

CR = Credits earned (fill in number of credits)

GR = Grade earned (fill in letter grade)

CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)

RC CR GR CAC

	RC	CR	GR	CAC
COURSE: SPU 201 Cognitive Development ♦	3			
COURSE: ITC 321 Instructional Technology in Ed. ♦	3			
COURSE: MAT 104 ♦ (suggested)	3			
12 Credits required by major but fulfilling General Education requirements (suggested courses below)				
COURSE: ELU 212 Teaching Diverse Learners ♦	3			
COURSE: SPU 101 Early Intervention & Transition ♦	3			
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3			
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3			

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Special Education PreK-8 – Elementary Education 4-8 Math & Eng./Lang. Arts & Rdg.

Program Code UCOESPUME Effective Date: August 26, 2013 126/128 Credits Required

V. CERTIFICATION COURSES (39/40 credits)	RC	CR	GR	CAC
1. Professional Courses 3 S.H.				
ELU 212 Teaching Diverse Learners at Mid. Level ♦	#			
ITC 321 Technology in Education Instruction ♦	#			
EDU 326 Intro. To Middle level Educ. ♦	3			
2. Natural Sciences 9 S.H.				
a. BIO 010/011	#			
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3			
c. Choose <u>two</u> of the following not taken in 2.b. (for 6 S.H.)				
AST 020/021 Introductory Astronomy (lab)	3			
CHM 020/021 Introduction to Chemistry (lab)	3			
GEL 020/021 Introduction to Geology (lab)	3			
PHY 020/021 Introduction to Physics (lab)	3			
CHM 051 Introduction to Forensic Science	3			
BIO/MAR 050/051 Window to the Ocean (lab)	3			
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3			
3. Mathematics 15/17 S.H.				
a. MAT 103 Fundamentals of Math I ♦	#			
b. MAT 104 Fundamentals of Math II ♦	#			
c. MAT 040 Geometry	3			
d. Choose all classes in Group A or all in Group B				
1. MAT 105 (prereq. for 122) MAT 115	3			
2. MAT 106 MAT 140	3			
3. MAT 122 – 3 S.H. MAT 181 – 4 S.H.	3/4			
4. MAT 140 – 3 S.H. MAT 182 – 4 S.H.	3/4			
4. English/Language Arts & Reading 3 S.H.				
a. ENG 010 (or other lit course) ♦	#			
b. ENG 100 Principles of Literacy Analysis	#			
c. SPU 316 Literacy Dev. Core & Intervention ♦ (Taken in Specialization Block)	*			
d. SPU 317 Intensive Reading, Writing and Mathematics ♦ (Taken in Specialization Block)	*			
e. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*			
f. ENG Elective	3			
5. Social Studies - Choose 3 of the following - 9 S.H. (Only one from each line) (Excluding the 1 taken as a required Gen. Ed. course)				
a. American History – HIS 025 or HIS 026	#			
b. Geography – GEG 010, GEG 020, or GEG 101	3			
c. World History – HIS 014 or HIS 015	3			
d. Political Science – POL 010 or POL 020	3			
e. Economics – ECO 010, ECO 011 or ECO 012	3			
f. Soc/Anthro/Phi- SOC 010/ANT 010/PHI 015	3			

VI. SPECIALIZATION COURSES (15 credits)	RC	CR	GR	CAC
1. Special Education 15 S.H.				
SPU 101 Early Intervention & Transition Disabilities ♦	#			
SPU 201 Cognitive Dev. Diverse Learners ♦	#			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
SPU 316 Literacy Dev. Core & Intervention ♦	#			
^SPU 317 Intensive Reading, Writing and Mathematics ♦	3			
SPU 318 Assessment and Instructional Methods ♦	3			
^SPU 320 Special Education Processes and IEP Dev. ♦	3			
^SPU 322 Teaching Stud. w/ High Incidence Disabilities ♦	3			
SPU 328 Positive Behavioral Intervention & Supports (Course is taken during Professional Semester.) ♦	*			
SPU 330 Teaching Stud. w/ Low Incidence Disabilities ♦	3			

^SPU 317, SPU 320 and SPU 322 must be taken as a block.

VII. CLINICAL COMPONENT (24 credits)	RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 12 S.H. Courses scheduled in a block Fall or Spring _____				
ELU 342 Teaching Writing at the Mid. Level ♦	3			
ELU 346 Middle Level Cognitive Development ♦	3			
ELU 348 Teaching Math & Sci to Mid. Level Learners ♦	3			
SPU 328 Positive Behavioral Intervention & Supports ♦	3			
B. Clinical Experience (Candidacy Required) 12 S.H. Fall or Spring _____				
SPU 392/393 Clinical Experience MPH I & II ♦	6			
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners ♦	6			

*** - Student is receiving credit for course as a Specialization requirement.**

♦ -These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010	HIS 025/026 (PreK-4)
ENG 010	MAT 103
ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.)	MAT 104
GEG 020 (PreK-4)	PSY 011 (PreK-4)

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Special Education PreK-8 – Elementary Education 4-8 Mathematics & Science

Program Code: UCOESPUMM
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) RC CR GR

A. Oral Communication: COM 010 or above			
COURSE: COM 010 ♦ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 ♦ (suggested)	3		
D. Wellness: any 3-credit HEA course			
COURSE: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits) RC CR GR CAC

A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC SSE or SWK				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE: ENG LIT ♦ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: PHI 015 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM RC CR GR CAC

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits) RC CR GR CAC

COURSE: SPU 201 Cognitive Development ♦	3			
COURSE: ITC 321 Instructional Technology in Ed. ♦	3			
COURSE: MAT 104 ♦ (suggested)	3			
12 Credits required by major but fulfilling General Education requirements (suggested courses below)				
COURSE: ELU 212 Teaching Diverse Learners ♦	3			
COURSE: SPU 101 Early Intervention & Transition ♦	3			
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3			
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3			

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Special Education PreK-8 – Elementary Education 4-8 Mathematics & Science

Program Code UCOESPUMM Effective Date: August 26, 2013 129/131 Credits Required

V. CERTIFICATION COURSES (42/43 credits)	RC	CR	GR	CAC
1. Professional Courses 3 S.H.				
ELU 212 Teaching Diverse Learners at Mid.Level ♦	#			
ITC 321 Technology in Education. Instruction ♦	#			
EDU 326 Intro. To Middle level Educ. ♦	3			
2. Natural Sciences 18 S.H.				
a. BIO 010/011	#			
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3			
c. Choose two of the following not taken in 2.b. (for 6 S.H.)				
AST 020/021 Introductory Astronomy (lab)	3			
CHM 020/021 Introduction to Chemistry (lab)	3			
GEL 020/021 Introduction to Geology (lab)	3			
PHY 020/021 Introduction to Physics (lab)	3			
CHM 051 Introduction to Forensic Science	3			
BIO/MAR 050/051 Window to the Ocean (lab)	3			
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3			
d. Choose 3 additional courses from science list (not taken in 2.b. or 2.c.)				
1.	3			
2.	3			
3.	3			
3. Mathematics 15/17 S.H.				
a. MAT 103 Fundamentals of Math I ♦	#			
b. MAT 104 Fundamentals of Math II ♦	#			
c. MAT 040 Geometry	3			
d. Choose all classes in Group A or all in Group B				
Group A				
Group B				
MAT 105 (prereq. for 122)	MAT 115	3		
MAT 106	MAT 140	3		
MAT 122 – 3 S.H.	MAT 181 – 4 S.H.	3/4		
MAT 140 – 3 S.H.	MAT 182 – 4 S.H.	3/4		
4. English/Language Arts & Reading 0 S.H.				
a. ENG 010 (or other lit course) ♦	#			
b. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*			
c. SPU 317 Intensive Reading, Writing and Mathematics ♦ (Taken in Specialization Block)	*			

Science List (V.3.d)

BIO/MAR 050/051	Window to the Oceans (lecture and lab)
BIO 130	Env. Issues: Global Perspective
BIO 140	Biology and Society
AST 020/021	Intro Astronomy (lecture & lab)
AST 030/031	Mission to the Planet (lecture & lab)
CHM 020/021	Intro to Chemistry (lecture & lab)
CHM 051	Intro to Forensic Science
GEG 204/205	Meteorology (lecture & lab)
GEL 020/021	Intro to Geology (lecture & lab)
PHY 020/021	Intro to Physics (lecture & lab)

	RC	CR	GR	CAC
5. Social Studies - Choose 2 of the following - 6 S.H. (Only one from each line) (Excluding the 2 taken as required Gen Ed. courses)				
a. American History – HIS 025 or HIS 026	#			
b. Sociology/Anthropology/Philosophy- PHI 015	#			
c. Geography – GEG 010, GEG 020, or GEG 101	3			
d. World History – HIS 014 or HIS 015	3			
e. Political Science – POL 010 or POL 020	3			
f. Economics – ECO 010, ECO 011 or ECO 012	3			

VI. SPECIALIZATION COURSES (15 credits)	RC	CR	GR	CAC
1. Special Education 15 S.H.				
SPU 101 Early Intervention & Transition Disabilities ♦	#			
SPU 201 Cognitive Dev. Diverse Learners ♦	#			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
SPU 316 Literacy Dev. Core & Intervention ♦	#			
^SPU 317 Intensive Reading, Writing and Mathematics ♦	3			
SPU 318 Assessment and Instructional Methods ♦	3			
^SPU 320 Special Education Processes and IEP Dev. ♦	3			
^SPU 322 Teaching Stud. w/ High Incidence Disabilities ♦	3			
SPU 328 Positive Behavioral Intervention & Supports (Course is taken during Professional Semester.) ♦	*			
SPU 330 Teaching Stud. w/ Low Incidence Disabilities ♦	3			

^SPU 317, SPU 320 and SPU 322 must be taken as a block.

VII. CLINICAL COMPONENT (24 credits)	RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 12 S.H. Courses scheduled in a block Fall or Spring _____				
ELU 342 Teaching Writing at the Mid. Level ♦	3			
ELU 346 Middle Level Cognitive Development ♦	3			
ELU 348 Teaching Math & Sci to Mid. Level Learners ♦	3			
SPU 328 Positive Behavioral Intervention & Supports ♦	3			
B. Clinical Experience 12 S.H. – Candidacy Required Fall or Spring _____				
SPU 392/393 Clinical Experience MPH I & II ♦	6			
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners ♦	6			

*- Student is receiving credit for course as a Specialization requirement.

♦ -These courses require a grade of "C" or better.

# - The following courses are required by your major, but can satisfy General Education requirements:	
BIO 010	HIS 025/026 (PreK-4)
ENG 010	MAT 103
ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.)	MAT 104
GEG 020 (PreK-4)	PSY 011 (PreK-4)

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Special Education PreK-8 – Elementary Education 4-8 Math & Social Studies

Program Code: UCOESPUMT
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE: COM 010 ♦ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 ♦ (suggested)	3		
D. Wellness: any 3-credit HEA course			
COURSE: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE: ENG LIT ♦ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: PHI 015 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
COURSE: SPU 201 Cognitive Development ♦	3			
COURSE: ITC 321 Instructional Technology in Ed. ♦	3			
COURSE: MAT 104 ♦ (suggested)	3			
12 Credits required by major but fulfilling General Education requirements (suggested courses below)				
COURSE: ELU 212 Teaching Diverse Learners ♦	3			
COURSE: SPU 101 Early Intervention & Transition ♦	3			
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3			
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3			

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Special Education PreK-8 - Elementary Education 4-8 Mathematics & Social Studies

Program Code UCOESPUMT Effective Date: August 26, 2013 129/131 Credits Required

V. CERTIFICATION COURSES (42/43 credits)	RC	CR	GR	CAC
1. Professional Courses 3 S.H.				
ELU 212 Teaching Diverse Learners at Mid.Level ♦	#			
ITC 321 Technology in Education Instruction ♦	#			
EDU 326 Intro. To Middle Level Educ. ♦	3			
2. Natural Sciences 9 S.H.				
a. BIO 010/011	#			
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3			
c. Choose <u>two</u> of the following not taken in 2.b. (for 6 S.H.)				
AST 020/021 Introductory Astronomy (lab)	3			
CHM 020/021 Introduction to Chemistry (lab)	3			
GEL 020/021 Introduction to Geology (lab)	3			
PHY 020/021 Introduction to Physics (lab)	3			
CHM 051 Introduction to Forensic Science	3			
BIO/MAR 050/051 Window to the Ocean (lab)	3			
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3			
3. Mathematics 15/17 S.H.				
a. MAT 103 Fundamentals of Math I ♦	#			
b. MAT 104 Fundamentals of Math II ♦	#			
c. MAT 040 Geometry	3			
d. Choose all classes in Group A or all in Group B				
1. MAT 105 (prereq. for 122) MAT 115	3			
2. MAT 106 MAT 140	3			
3. MAT 122 – 3 S.H. MAT 181 – 4 S.H.	3/4			
4. MAT 140 – 3 S.H. MAT 182 – 4 S.H.	3/4			
4. English/Language Arts & Reading 0 S.H.				
a. ENG 010 (or other lit course) ♦	#			
b. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*			
c. SPU 317 Intensive Reading, Writing & Mathematics ♦	*			
5. a. Social Studies - Choose 2 of the following - 15 S.H. . (Only one from each line) (Excluding the 2 taken as required Gen Ed. courses)				
American History – HIS 025 or HIS 026	#			
Sociology/Anthropology/Philosophy - PHI 015	#			
Geography – GEG 010, GEG 020, or GEG 101	3			
World History – HIS 014 or HIS 015	3			
Political Science – POL 010 or POL 020	3			
Economics – ECO 010, ECO 011 or ECO 012	3			
5. b. Choose 3 other courses from social studies list not taken in 5.a.				
1.	3			
2.	3			
3.	3			

VI. SPECIALIZATION COURSES (15 credits)	RC	CR	GR	CAC
1. Special Education 15 S.H.				
SPU 101 Early Intervention & Transition Disabilities ♦	#			
SPU 201 Cognitive Dev. Diverse Learners ♦	#			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
SPU 316 Literacy Dev. Core & Intervention ♦	#			
^SPU 317 Intensive Reading, Writing and Mathematics ♦	3			
SPU 318 Assessment and Instructional Methods ♦	3			
^SPU 320 Special Education Processes and IEP Dev. ♦	3			
^SPU 322 Teaching Stud. w/ High Incidence Disabilities ♦	3			
SPU 328 Positive Behavioral Intervention & Supports (Course is taken during Professional Semester.) ♦	*			
SPU 330 Teaching Stud. w/ Low Incidence Disabilities ♦	3			

^SPU 317, SPU 320 and SPU 322 must be taken as a block.

VII. CLINICAL COMPONENT (24 credits)	RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 12 S.H. Courses scheduled in a block Fall or Spring _____				
ELU 342 Teaching Writing at the Mid. Level ♦	3			
ELU 346 Middle Level Cognitive Development ♦	3			
ELU 348 Teaching Math & Sci. to Mid. Level Learners ♦	3			
SPU 328 Positive Behavioral Intervention & Supports ♦	3			
B. Clinical Experience (Candidacy Required) 12 S.H. Fall or Spring _____				
SPU 392/393 Clinical Experience MPH I & II ♦	6			
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners ♦	6			

Social Studies List (V.6.b)

ANT 010; ECO 011 or ECO 012

HIS 014 or HIS 015; HIS 025 or HIS 026; HIS 120

GEG 010 or GEG 020 or GEG 101

POL 010 or POL 020; SOC 010

* - Student is receiving credit for course as a Specialization requirement.

♦ -These courses require a grade of "C" or better.

# - The following courses are required by your major, but can satisfy General Education requirements:	
BIO 010	HIS 025/026 (PreK-4)
ENG 010	MAT 103
ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.)	MAT 104
GEG 020 (PreK-4)	PSY 011 (PreK-4)

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Special Education PreK-8 – Elementary Education 4-8 Science & Eng./Lang. Arts & Rdg.

Program Code: UCOESPUSC
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE: COM 010 ♦ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 ♦ (suggested)	3		
D. Wellness: any 3-credit HEA course			
COURSE: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE: ENG LIT ♦ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: ENG 100 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
COURSE: SPU 201 Cognitive Development ♦	3			
COURSE: ITC 321 Instructional Technology in Ed. ♦	3			
COURSE: MAT 104 ♦ (suggested)	3			
12 Credits required by major but fulfilling General Education requirements (suggested courses below)				
COURSE: ELU 212 Teaching Diverse Learners ♦	3			
COURSE: SPU 101 Early Intervention & Transition ♦	3			
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3			
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3			

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Special Education PreK-8 – Elementary Education 4-8 Science & Eng./Lang. Arts & Rdg.

Program Code UCOESPUSC Effective Date: August 26, 2013 126 Credits Required

V. CERTIFICATION COURSES (39 credits)		RC	CR	GR	CAC
1. Professional Courses 3 S.H.					
ELU 212 Teaching Diverse Learners at Mid.Level ♦	#				
ITC 321 Technology in Education. Instruction ♦	#				
EDU 326 Intro. To Middle level Educ. ♦	3				
2. Natural Sciences 18 S.H.					
a. BIO 010/011	#				
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3				
c. Choose <u>two</u> of the following not taken in 2.b. (for 6 S.H.)					
AST 020/021 Introductory Astronomy (lab)	3				
CHM 020/021 Introduction to Chemistry (lab)	3				
GEL 020/021 Introduction to Geology (lab)	3				
PHY 020/021 Introduction to Physics (lab)	3				
CHM 051 Introduction to Forensic Science	3				
BIO/MAR 050/051 Window to the Ocean (lab)	3				
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3				
d. Choose <u>3 additional</u> courses from science list (not taken in 2.b. or 2.c.)					
1.	3				
2.	3				
3.	3				
3. Mathematics 6 S.H.					
a. MAT 103 Fundamentals of Math I ♦	#				
b. MAT 104 Fundamentals of Math II ♦	#				
c. MAT 040 Geometry	3				
d. MAT 105 or MAT 115	3				
4. English/Language Arts & Reading 3 S.H.					
a. ENG 010 (or other lit course) ♦	#				
b. ENG 100 Principles of Literacy Analysis	#				
c. SPU 316 Literacy Dev. Core & Intervention ♦ (Taken in Specialization Block)	*				
d. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*				
e. SPU 317 Intensive Reading, Writing and Mathematics ♦ (Taken in Specialization Block)	*				
f. ENG Elective	3				

5. Social Studies - Choose 3 of the following - 9 S.H. (Only one from each line) (Excluding the 1 taken as a required Gen. Ed. course)					
a. American History – HIS 025 or HIS 026	#				
b. Geography – GEG 010, GEG 020, or GEG 101	3				
c. World History – HIS 014 or HIS 015	3				
d. Political Science – POL 010 or POL 020	3				
e. Economics – ECO 010, ECO 011 or ECO 012	3				
f. Sociology/Anthropology/Philosophy- SOC 010 or ANT 010 or PHI 015	3				

VI. SPECIALIZATION COURSES (15 credits)		RC	CR	GR	CAC
1. Special Education 15 S.H.					
SPU 101 Early Intervention & Transition Disabilities ♦	#				
SPU 201 Cognitive Dev. Diverse Learners ♦	#				
SPU 314 Effective Inst. Strat. Disabilities ♦	#				
SPU 316 Literacy Dev. Core & Intervention ♦	#				
^SPU 317 Intensive Reading, Writing and Mathematics ♦	3				
SPU 318 Assessment and Instructional Methods ♦	3				
^SPU 320 Special Education Processes and IEP Dev. ♦	3				
^SPU 322 Teaching Stud. w/ High Incidence Disabilities ♦	3				
SPU 328 Positive Behavioral Intervention & Supports (Course is taken during Professional Semester.) ♦	*				
SPU 330 Teaching Stud. w/ Low Incidence Disabilities ♦	3				

^SPU 317, SPU 320 and SPU 322 must be taken as a block.

VII. CLINICAL COMPONENT (24 credits)		RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 12 S.H. Courses scheduled in a block Fall or Spring _____					
ELU 342 Teaching Writing at the Mid. Level ♦	3				
ELU 346 Middle Level Cognitive Development ♦	3				
ELU 348 Teaching Math & Sci to Mid. Level Learners ♦	3				
SPU 328 Positive Behavioral Intervention & Supports ♦	3				
B. Clinical Experience (Candidacy Required) 12 S.H. Fall or Spring _____					
SPU 392/393 Clinical Experience MPH I & II ♦	6				
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners ♦	6				

Science List (V.3.d)

BIO/MAR 050/051 Window to the Oceans (lecture and lab)
BIO 130 Env. Issues: Global Perspective
BIO 140 Biology and Society
AST 020/021 Intro Astronomy (lecture & lab)
AST 030/031 Mission to the Planet (lecture & lab)
CHM 020/021 Intro to Chemistry (lecture & lab)
CHM 051 Intro to Forensic Science
GEG 204/205 Meteorology (lecture & lab)
GEL 020/021 Intro to Geology (lecture & lab)
PHY 020/021 Intro to Physics (lecture & lab)

*- Student is receiving credit for course as a Specialization requirement.

♦-These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010	HIS 025/026 (PreK-4)
ENG 010	MAT 103
ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.)	MAT 104
GEG 020 (PreK-4)	PSY 011 (PreK-4)

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Special Education PreK-8 – Elementary Education 4-8 Science & Social Studies

Program Code: UCOESPUSI
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) RC CR GR

A. Oral Communication: COM 010 or above			
COURSE: COM 010 ♦ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 ♦ (suggested)	3		
D. Wellness: any 3-credit HEA course			
COURSE: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits) RC CR GR CAC

A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE: ENG LIT ♦ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: PHI 015 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM RC CR GR CAC

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits) RC CR GR CAC

COURSE: SPU 201 Cognitive Development ♦	3			
COURSE: ITC 321 Instructional Technology in Ed. ♦	3			
COURSE: MAT 104 ♦ (suggested)	3			
12 Credits required by major but fulfilling General Education requirements (suggested courses below)				
COURSE: ELU 212 Teaching Diverse Learners ♦	3			
COURSE: SPU 101 Early Intervention & Transition ♦	3			
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3			
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3			

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Special Education PreK- 8 – Elementary Education 4-8 Science & Social Studies

Program Code UCOESPUSI Effective Date: August 26, 2013 129 Credits Required

V. CERTIFICATION COURSES (42 credits)		RC	CR	GR	CAC
1. Professional Courses 3 S.H.					
ELU 212 Teaching Diverse Learners at Mid. Level ♦	#				
ITC 321 Instructional Technology in Ed. ♦	#				
EDU 326 Intro. To Middle Level Educ. ♦	3				
2. Natural Sciences 18 S.H.					
a. BIO 010/011	#				
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3				
c. Choose <u>two</u> of the following not taken in 2.b. (for 6 S.H.)					
AST 020/021 Introductory Astronomy (lab)	3				
CHM 020/021 Introduction to Chemistry (lab)	3				
GEL 020/021 Introduction to Geology (lab)	3				
PHY 020/021 Introduction to Physics (lab)	3				
CHM 051 Introduction to Forensic Science	3				
BIO/MAR 050/051 Window to the Ocean (lab)	3				
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3				
d. Choose <u>3</u> additional courses from science list (not taken in 2.b. or 2.c.)					
1.	3				
2.	3				
3.	3				
3. Mathematics 6 S.H.					
a. MAT 103 Fundamentals of Math I ♦	#				
b. MAT 104 Fundamentals of Math II ♦	#				
c. MAT 040 Geometry	3				
d. MAT 105 OR MAT 115	3				
4. English/Language Arts & Reading 0 S.H.					
a. ENG 010 (or other lit course) ♦	#				
b. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*				
c. SPU 317 Intensive Reading, Writing & Mathematics ♦	*				
5. a. Social Studies - Choose 2 of the following - 15 S.H. (Only one from each line) (Excluding the 2 taken as required Gen Ed. courses)					
American History – HIS 025 or HIS 026	#				
Sociology/Anthropology/Philosophy- PHI 015	#				
Geography – GEG 010, GEG 020, or GEG 101	3				
World History – HIS 014 or HIS 015	3				
Political Science – POL 010 or POL 020	3				
Economics – ECO 010, ECO 011 or ECO 012	3				
5. b. Choose 3 other courses from social studies list not taken in 5.a.					
1.	3				
2.	3				
3.	3				

VI. SPECIALIZATION COURSES (15 credits)		RC	CR	GR	CAC
1. Special Education 15 S.H.					
SPU 101 Early Intervention & Transition Disabilities ♦	#				
SPU 201 Cognitive Dev. Diverse Learners ♦	#				
SPU 314 Effective Inst. Strat. Disabilities ♦	#				
SPU 316 Literacy Dev. Core & Intervention ♦	#				
^SPU 317 Intensive Reading, Writing and Mathematics ♦	3				
SPU 318 Assessment and Instructional Methods ♦	3				
^SPU 320 Special Education Processes and IEP Dev. ♦	3				
^SPU 322 Teaching Stud. w/ High Incidence Disabilities ♦	3				
SPU 328 Positive Behavioral Intervention & Supports (Course is taken during Professional Semester.) ♦	*				
SPU 330 Teaching Stud. w/ Low Incidence Disabilities ♦	3				

^SPU 317, SPU 320 and SPU 322 must be taken as a block.

VII. CLINICAL COMPONENT (24 credits)		RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 12 S.H. Courses scheduled in a block Fall or Spring _____					
ELU 342 Teaching Writing at the Mid Level ♦	3				
ELU 346 Middle Level Cognitive Development ♦	3				
ELU 348 Teaching Math & Sci. to Mid. Level Learners ♦	3				
SPU 328 Positive Behavioral Intervention & Supports ♦	3				
B. Clinical Experience (Candidacy Required) 12 S.H. Fall or Spring _____					
SPU 392/393 Clinical Experience MPH I & II ♦	6				
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners ♦	6				

Science List (V.3.d)

BIO/MAR 050/051 Window to the Oceans (lecture and lab)

BIO 130 Env. Issues: Global Perspective

BIO 140 Biology and Society

AST 020/021 Intro Astronomy (lecture & lab)

AST 030/031 Mission to the Planet (lecture & lab)

CHM 020/021 Intro to Chemistry (lecture & lab)

CHM 051 Intro to Forensic Science

GEG 204/205 Meteorology (lecture & lab)

GEL 020/021 Intro to Geology (lecture & lab)

PHY 020/021 Intro to Physics (lecture & lab)

Social Studies List (V.6.b)

ANT 010; ECO 011 or ECO 012

HIS 014 or HIS 015; HIS 025 or HIS 026; HIS 120

GEG 010 or GEG 020 or GEG 101

POL 010 or POL 020; SOC 010

*- Student is receiving credit for course as a Specialization requirement.

♦ -These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010 **HIS 025/026 (PreK-4)**

ENG 010 **MAT 103**

ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.) **MAT 104**

GEG 020 (PreK-4) **PSY 011 (PreK-4)**

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Visual Impairment Birth-21 – Elementary Education PreK-4

Program Code: UCOESPUVE
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)		RC	CR	GR
A. Oral Communication: COM 010 or above				
COURSE: COM 010 ♦ (suggested)	3			
B. Written Communication: ENG 023, 024 or 025				
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3			
C. Mathematics: MAT 017 or above				
COURSE: MAT 103 ♦ (suggested)	3			
D. Wellness: any 3-credit HEA course				
COURSE: HEA 102 (suggested)	3			

II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)					
COURSE: BIO 010/011 (suggested)	3				
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK					
COURSE: PSY 011 (suggested)	3				
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language					
COURSE: ENG LIT ♦ (suggested)	3				
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE					
COURSE:	3				
E. Free Elective: Any course carrying university credit					
COURSE: GEG or ECO (suggested)	3				

III. COMPETENCIES ACROSS THE CURRICULUM		RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)					
COURSE:	3				WI
COURSE:	3				WI
COURSE:	3				WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)					
COURSE:	3				
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)					
COURSE:	3				
D. Cultural Diversity (CD) (3 credits)					
COURSE:	3				CD
E. Critical Thinking (CT) (3 credits)					
COURSE:	3				CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)		RC	CR	GR	CAC
COURSE: SPU 201 Cognitive Development ♦	3				
COURSE: ITC 321 Instructional Technology in Ed. ♦	3				
COURSE: MAT 104 ♦ (suggested)	3				
12 Credits required by major but fulfilling General Education Requirements (suggested courses below)					
COURSE: PSY 110 Child Psychology	3				
COURSE: Diversity - See other side for eligible courses	3				
COURSE: Physical science with/wo lab – any course with prefix AST, CHM, ENV, GEL, MAR, PHY or GEG 204, 323, 324	3				
COURSE: HIS 025 or HIS 026 American History	3				

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Visual Impairment Birth-21 – Elementary Education – PreK-4

Program Code UCOESPUVE Effective Date: August 26, 2013 120 Credits Required

V. CERTIFICATION COURSES (18 credits)

	RC	CR	GR	CAC
1. Professional Courses 18 S.H.				
ITC 321 Instructional Technology in Education ♦	#			
ARU 236 The Arts and PreK-4 Education ♦	3			
EEU 130 Early Child Dev.: Theories and Practice ♦	3			
EEU 205 Teaching Science in Early Childhood ♦	3			
EEU 209 Math Foundations for PreK-1 ♦	3			
EEU 211 Family Collaboration and Diversity ♦	3			
EEU 300 Early Literacy Dev. & Acquisition PreK-1 ♦	3			

Diversity Course Requirement Listing:

ANT 010 ANT 130 ANT 215 ANT 226 ANT 290

COM 213

CRJ 230 CRJ 231

HIS 150

INT 010

POL 030

PSY 215 PSY 240

SOC 010 SOC 110 SOC 120 SOC 140 SOC 230

COM 213

(Please note: ANT 130, ANT 290, PSY 215, PSY 240 and SOC 110 have pre-requisites.)

VI. SPECIALIZATION (27 credits)

	RC	CR	GR	CAC
1. Visual Impairment 27 S.H.				
SPU 201 Cognitive Dev. Diverse Learners ♦	#			
SPU 101 Early Intervention & Transition Disabilities ♦	3			
SPU 314 Effective Inst. Strat. Disabilities ♦	3			
SPU 316 Literacy Dev. Core & Intervention ♦	3			
SPU 200 Reading, Writing & Tchg. Library Braille ♦	3			
SPU 202 Orient. & Mobility for Tchrs. of Stu. with VI ♦	3			
SPU 204 Anat./Eye & Related Assess. Students w/ VI ♦	3			
SPU 221 Assessment for Stud. w/ Visual Impairments ♦	3			
SPU 300 Reading, Writing & Tchg. Literary Braille ♦	3			
SPU 302 Adapting Materials & Methods of Instr. & Eval. ♦	3			

VII. CLINICAL COMPONENT (27 credits)

	RC	CR	GR	CAC
A. Professional Semester 15 S.H. - Candidacy Required Courses scheduled in a block Fall or Spring				
EEU 301 Teaching Literacy in Grades 2-4 ♦	3			
EEU 303 Language Development in Early Childhood ♦	3			
EEU 304 Teaching Social Studies in PreK-4 ♦	3			
EEU 306 Integrating Principles of Learning in PreK-4♦	3			
EEU 309 Teaching Math in Grades 2-4 ♦	3			
B. Clinical Experience 12 S.H. – Candidacy Required Fall or Spring _____				
SPU 390/391 Clinical Experience VI I & II ♦	6			
EEU 390/391 Clinical Experience Pre-K-4 I & II ♦	6			

♦ -These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010

MAT 103

ENG 010

MAT 104

GEG 020

PSY 011

HIS 025/026

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Visual Impairment Birth-21 – Elementary Education 4-8 Math & Eng./Lang. Arts & Rdg.

Program Code: UCOESPUEM

Effective Date: August 26, 2013

Version Number: 2138 – Fall 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)

RC CR GR

	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE: COM 010 ♦ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 ♦ (suggested)	3		
D. Wellness: any 3-credit HEA course			
COURSE: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits)

RC CR GR CAC

	RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE: ENG LIT ♦ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: ENG 100 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM

RC CR GR CAC

	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)

RC CR GR CAC

	RC	CR	GR	CAC
COURSE: SPU 201 Cognitive Development ♦	3			
COURSE: ITC 321 Instructional Technology in Ed. ♦	3			
COURSE: MAT 104 ♦ (suggested)	3			
12 Credits required by major but fulfilling General Education requirements (suggested courses below)				
COURSE: ELU 212 Teaching Diverse Learners ♦	3			
COURSE: SPU 101 Early Intervention & Transition ♦	3			
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3			
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3			

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Visual Impairment Birth-21 – Elementary Education 4-8 Math & Eng./Lang. Arts & Rdg.

Program Code UCOESPUEM Effective Date: August 26, 2013 129/131 Credits Required

V. CERTIFICATION COURSES (42/43 credits)	RC	CR	GR	CAC
1. Professional Courses 3 S.H.				
ELU 212 Teaching Diverse Learners at Mid.Level ♦	#			
ITC 321 Technology in Education. Instruction ♦	#			
EDU 326 Intro. To Middle level Educ. ♦	3			
2. Natural Sciences 9 S.H.				
a. BIO 010/011	#			
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3			
c. Choose <u>two</u> of the following not taken in 2.b. (for 6 S.H.)				
AST 020/021 Introductory Astronomy (lab)	3			
CHM 020/021 Introduction to Chemistry (lab)	3			
GEL 020/021 Introduction to Geology (lab)	3			
PHY 020/021 Introduction to Physics (lab)	3			
CHM 051 Introduction to Forensic Science	3			
BIO/MAR 050/051 Window to the Ocean (lab)	3			
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3			
3. Mathematics 15/17 S.H.				
a. MAT 103 Fundamentals of Math I ♦	#			
b. MAT 104 Fundamentals of Math II ♦	#			
c. MAT 040 Geometry	3			
d. Choose all classes in Group A or all in Group B				
1.. MAT 105 (prereq. for 122) MAT 115	3			
2. MAT 106 MAT 140	3			
3. MAT 122 – 3 S.H. MAT 181 – 4 S.H.	3/4			
4. MAT 140 – 3 S.H. MAT 182 – 4 S.H.	3/4			
4. English/Language Arts & Reading 6 S.H.				
a. ENG 010 (or other lit course) ♦	#			
b. ENG 100 Principles of Literacy Analysis	#			
c. SPU 316 Literacy Dev. Core & Intervention ♦ (Taken in Specialization Block)	*			
d. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*			
e. ELU 221 Lit. for Upper Elem. & Mid. Level Learners ♦	3			
f. ENG Elective	3			
5. Social Studies - Choose 3 of the following - 9 S.H. (Only one from each line) (Excluding the 1 taken as a required Gen. Ed. course)				
a. American History – HIS 025 or HIS 026	#			
b. Geography – GEG 010, GEG 020, or GEG 101	3			
c. World History – HIS 014 or HIS 015	3			
d. Political Science – POL 010 or POL 020	3			
e. Economics – ECO 010, ECO 011 or ECO 012	3			
f. Soc/Anthro/Philosophy- SOC 010/ANT 010/PHI 015	3			

VI. SPECIALIZATION (18 credits)	RC	CR	GR	CAC
1. Visual Impairment 18 S.H. SPU 101 Early Intervention & Transition Disabilities ♦				
SPU 101 Early Intervention & Transition Disabilities ♦	#			
SPU 201 Cognitive Dev. Diverse Learners ♦	#			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
SPU 316 Literacy Dev. Core & Intervention ♦	#			
SPU 200 Reading, Writing & Tchg. Library Braille ♦	3			
SPU 202 Orient. & Mobility for Tchrs. of Stu. with VI ♦	3			
SPU 204 Anat./Eye & Related Assess. Students w/ VI ♦	3			
SPU 221 Assessment for Stud. w/ Visual Impairments ♦	3			
SPU 300 Reading, Writing & Tchg. Literary Braille ♦	3			
SPU 302 Adapting Materials & Methods of Instr. & Eval. ♦	3			

VII. CLINICAL COMPONENT (21 credits)	RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 9 S.H. Courses scheduled in a block Fall or Spring _____				
ELU 342 Teaching Writing at the Mid. Level ♦	3			
ELU 346 Middle Level Cognitive Development ♦	3			
ELU 348 Teaching Math & Sci to Mid. Level Learners ♦	3			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
B. Clinical Experience (Candidacy Required) 12 S.H. Fall or Spring _____				
SPU 390/391 Clinical Experience VI I & II ♦	6			
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners ♦	6			

* - Student is receiving credit for course as a Specialization requirement.

♦ -These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010	HIS 025/026 (PreK-4)
ENG 010	MAT 103
ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.)	MAT 104
GEG 020 (PreK-4)	PSY 011 (PreK-4)

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Visual Impairment Birth-21 – Elementary Education 4-8 Mathematics & Science

Program Code: UCOESPUES
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE: COM 010 ♦ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 ♦ (suggested)	3		
D. Wellness: any 3-credit HEA course			
COURSE: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE: ENG LIT ♦ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: PHI 015 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
COURSE: SPU 201 Cognitive Development ♦	3			
COURSE: ITC 321 Instructional Technology in Ed. ♦	3			
COURSE: MAT 104 ♦ (suggested)	3			
12 Credits required by major but fulfilling General Education requirements (suggested courses below)				
COURSE: ELU 212 Teaching Diverse Learners ♦	3			
COURSE: SPU 101 Early Intervention & Transition ♦	3			
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3			
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3			

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Visual Impairment Birth-21 – Elementary Education 4-8 Mathematics & Science

Program Code UCOESPUES Effective Date: August 26, 2013 132/134 Credits Required

V. CERTIFICATION COURSES (45/46 credits)	RC	CR	GR	CAC
1. Professional Courses 3 S.H.				
ELU 212 Teaching Diverse Learners at Mid.Level ♦	#			
ITC 321 Technology in Education. Instruction ♦	#			
EDU 326 Intro. To Middle level Educ. ♦	3			
2. Natural Sciences 18 S.H.				
a. BIO 010/011	#			
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3			
c. Choose <u>two</u> of the following not taken in 2.b. (for 6 S.H.)				
AST 020/021 Introductory Astronomy (lab)	3			
CHM 020/021 Introduction to Chemistry (lab)	3			
GEL 020/021 Introduction to Geology (lab)	3			
PHY 020/021 Introduction to Physics (lab)	3			
CHM 051 Introduction to Forensic Science	3			
BIO/MAR 050/051 Window to the Ocean (lab)	3			
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3			
d. Choose <u>3 additional</u> courses from science list (not taken in 2.b. or 2.c.)				
1.	3			
2.	3			
3.	3			
3. Mathematics 15/17 S.H.				
a. MAT 103 Fundamentals of Math I ♦	#			
b. MAT 104 Fundamentals of Math II ♦	#			
c. MAT 040 Geometry	3			
d. Choose all classes in Group A or all in Group B				
Group A				
Group B				
MAT 105 (prereq. for 122)	MAT 115	3		
MAT 106	MAT 140	3		
MAT 122 – 3 S.H.	MAT 181 – 4 S.H.	3/4		
MAT 140 – 3 S.H.	MAT 182 – 4 S.H.	3/4		
4. English/Language Arts & Reading 3 S.H.				
a. ENG 010 (or other lit course) ♦	#			
b. ELU 221 Lit. for Upper Elem. & Mid. Level Learners ♦	3			
c. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*			

Science List (V.3.d)

BIO/MAR 050/051	Window to the Oceans (lecture and lab)
BIO 130	Env. Issues: Global Perspective
BIO 140	Biology and Society
AST 020/021	Intro Astronomy (lecture & lab)
AST 030/031	Mission to the Planet (lecture & lab)
CHM 020/021	Intro to Chemistry (lecture & lab)
CHM 051	Intro to Forensic Science
GEG 204/205	Meteorology (lecture & lab)
GEL 020/021	Intro to Geology (lecture & lab)
PHY 020/021	Intro to Physics (lecture & lab)

	RC	CR	GR	CAC
5. Social Studies - Choose 2 of the following - 6 S.H. (Only one from each line) (Excluding the 2 taken as required Gen Ed. courses)				
a. American History – HIS 025 or HIS 026	#			
b. Sociology/Anthropology/Philosophy- PHI 015	#			
c. Geography – GEG 010, GEG 020, or GEG 101	3			
d. World History – HIS 014 or HIS 015	3			
e. Political Science – POL 010 or POL 020	3			
f. Economics – ECO 010, ECO 011 or ECO 012	3			

VI. SPECIALIZATION (18 credits)	RC	CR	GR	CAC
1. Visual Impairment 18 S.H. SPU 101 Early Intervention & Transition Disabilities ♦				
SPU 101 Early Intervention & Transition Disabilities ♦	#			
SPU 201 Cognitive Dev. Diverse Learners ♦	#			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
SPU 316 Literacy Dev. Core & Intervention ♦	#			
SPU 200 Reading, Writing & Tchg. Library Braille ♦	3			
SPU 202 Orient. & Mobility for Tchrs. of Stu. with VI ♦	3			
SPU 204 Anat./Eye & Related Assess. Students w/ VI ♦	3			
SPU 221 Assessment for Stud. w/ Visual Impairments ♦	3			
SPU 300 Reading, Writing & Tchg. Literary Braille ♦	3			
SPU 302 Adapting Materials & Methods of Instr. & Eval. ♦	3			

VII. CLINICAL COMPONENT (21 credits)	RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 9 S.H. Courses scheduled in a block Fall or Spring _____				
ELU 342 Teaching Writing at the Mid. Level ♦	3			
ELU 346 Middle Level Cognitive Development ♦	3			
ELU 348 Teaching Math & Sci to Mid. Level Learners ♦	3			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
B. Clinical Experience (Candidacy Required) 12 S.H. Fall or Spring _____				
SPU 390/391 Clinical Experience VI I & II ♦	6			
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners ♦	6			

*- Student is receiving credit for course as a Specialization requirement.

♦ -These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010	HIS 025/026
ENG 010	MAT 103
ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.)	MAT 104
GEG 020	PSY 011

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Visual Impairment Birth-21 – Elementary Education 4-8 Math & Social Studies

Program Code: UCOESPUMS
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)		RC	CR	GR
A. Oral Communication: COM 010 or above				
COURSE: COM 010 ♦ (suggested)	3			
B. Written Communication: ENG 023, 024 or 025				
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3			
C. Mathematics: MAT 017 or above				
COURSE: MAT 103 ♦ (suggested)	3			
D. Wellness: any 3-credit HEA course				
COURSE: HEA 102 (suggested)	3			

II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)					
COURSE: BIO 010/011 (suggested)	3				
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK					
COURSE: HIS 025 or HIS 026 (suggested)	3				
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language					
COURSE: ENG LIT ♦ (suggested)	3				
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE					
COURSE:	3				
E. Free Elective: Any course carrying university credit					
COURSE: PHI 015 (suggested)	3				

III. COMPETENCIES ACROSS THE CURRICULUM		RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)					
COURSE:	3				WI
COURSE:	3				WI
COURSE:	3				WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)					
COURSE:	3				
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)					
COURSE:	3				
D. Cultural Diversity (CD) (3 credits)					
COURSE:	3				CD
E. Critical Thinking (CT) (3 credits)					
COURSE:	3				CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)		RC	CR	GR	CAC
COURSE: SPU 201 Cognitive Development ♦	3				
COURSE: ITC 321 Instructional Technology in Ed. ♦	3				
COURSE: MAT 104 ♦ (suggested)	3				
12 Credits required by major but fulfilling General Education requirements (suggested courses below)					
COURSE: ELU 212 Teaching Diverse Learners ♦	3				
COURSE: SPU 101 Early Intervention & Transition ♦	3				
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3				
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3				

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Visual Impairment Birth-21 - Elementary Education 4-8 Mathematics & Social Studies

Program Code UCOESPUMS Effective Date: August 26, 2013 132/134 Credits Required

V. CERTIFICATION COURSES (45/46 credits)	RC	CR	GR	CAC
1. Professional Courses 3 S.H.				
ELU 212 Teaching Diverse Learners at Mid.Level ♦	#			
ITC 321 Technology in Education. Instruction ♦	#			
EDU 326 Intro. To Middle level Educ. ♦	3			
2. Natural Sciences 9 S.H.				
a. BIO 010/011	#			
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3			
c. Choose two of the following not taken in 2.b. (for 6 S.H.)				
AST 020/021 Introductory Astronomy (lab)	3			
CHM 020/021 Introduction to Chemistry (lab)	3			
GEL 020/021 Introduction to Geology (lab)	3			
PHY 020/021 Introduction to Physics (lab)	3			
CHM 051 Introduction to Forensic Science	3			
BIO/MAR 050/051 Window to the Ocean (lab)	3			
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3			
3. Mathematics 15/17 S.H.				
a. MAT 103 Fundamentals of Math I ♦	#			
b. MAT 104 Fundamentals of Math II ♦	#			
c. MAT 040 Geometry	3			
d. Choose all classes in Group A or all in Group B				
1.. MAT 105 (prereq. for 122) MAT 115	3			
2. MAT 106 MAT 140	3			
3. MAT 122 – 3 S.H. MAT 181 – 4 S.H.	3/4			
4. MAT 140 – 3 S.H. MAT 182 – 4 S.H.	3/4			
4. English/Language Arts & Reading 3 S.H.				
a. ENG 010 (or other lit course) ♦	#			
b. ELU 221 Lit. for Upper Elem. & Mid. Level Learners ♦	3			
c. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*			
5. a. Social Studies - Choose 2 of the following - 15 S.H. (Only one from each line) (Excluding the 2 taken as required Gen Ed. courses)				
American History – HIS 025 or HIS 026	#			
Sociology/Anthropology/Philosophy- PHI 015	#			
Geography – GEG 010, GEG 020, or GEG 101	3			
World History – HIS 014 or HIS 015	3			
Political Science – POL 010 or POL 020	3			
Economics – ECO 010, ECO 011 or ECO 012	3			
5. b. Choose 3 other courses from social studies list not taken in 5.a.				
1.	3			
2.	3			
3.	3			

VI. SPECIALIZATION (18 credits)	RC	CR	GR	CAC
1. Visual Impairment 18 S.H. SPU 101 Early Intervention & Transition Disabilities ♦				
SPU 101 Early Intervention & Transition Disabilities ♦	#			
SPU 201 Cognitive Dev. Diverse Learners ♦	#			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
SPU 316 Literacy Dev. Core & Intervention ♦	#			
SPU 200 Reading, Writing & Tchg. Library Braille ♦	3			
SPU 202 Orient. & Mobility for Tchrs. of Stu. with VI ♦	3			
SPU 204 Anat./Eye & Related Assess. Students w/ VI ♦	3			
SPU 221 Assessment for Stud. w/ Visual Impairments ♦	3			
SPU 300 Reading, Writing & Tchg. Literary Braille ♦	3			
SPU 302 Adapting Materials & Methods of Instr. & Eval. ♦	3			

VII. CLINICAL COMPONENT (21 credits)	RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 9 S.H. Courses scheduled in a block Fall or Spring _____				
ELU 342 Teaching Writing at the Mid. Level ♦	3			
ELU 346 Middle Level Cognitive Development ♦	3			
ELU 348 Teaching Math & Sci to Mid. Level Learners ♦	3			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
B. Clinical Experience (Candidacy Required) 12 S.H. Fall or Spring _____				
SPU 390/391 Clinical Experience VI I & II ♦	6			
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners♦	6			

Social Studies List (V.6.b)

ANT 010; ECO 011 or ECO 012
HIS 014 or HIS 015; HIS 025 or HIS 026; HIS 120
GEG 010 or GEG 020 or GEG 101
POL 010 or POL 020; SOC 010

*- Student is receiving credit for course as a Specialization requirement.

♦ -These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010	HIS 025/026 (PreK-4)
ENG 010	MAT 103
ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.)	MAT 104
GEG 020 (PreK-4)	PSY 011 (PreK-4)

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Visual Impairment Birth-21– Elementary Education 4-8 Science & Eng./Lang. Arts & Rdg.

Program Code: UCOESPUSE
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)		RC	CR	GR
A. Oral Communication: COM 010 or above				
COURSE: COM 010 ♦ (suggested)	3			
B. Written Communication: ENG 023, 024 or 025				
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3			
C. Mathematics: MAT 017 or above				
COURSE: MAT 103 ♦ (suggested)	3			
D. Wellness: any 3-credit HEA course				
COURSE: HEA 102 ♦ (suggested)	3			

II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)					
COURSE: BIO 010/011 (suggested)	3				
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK					
COURSE: HIS 025 or HIS 026 (suggested)	3				
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language					
COURSE: ENG LIT ♦ (suggested)	3				
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE					
COURSE:	3				
E. Free Elective: Any course carrying university credit					
COURSE: ENG 100 (suggested)	3				

III. COMPETENCIES ACROSS THE CURRICULUM		RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)					
COURSE:	3				WI
COURSE:	3				WI
COURSE:	3				WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)					
COURSE:	3				
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)					
COURSE:	3				
D. Cultural Diversity (CD) (3 credits)					
COURSE:	3				CD
E. Critical Thinking (CT) (3 credits)					
COURSE:	3				CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)		RC	CR	GR	CAC
COURSE: SPU 201 Cognitive Development ♦	3				
COURSE: ITC 321 Instructional Technology in Ed. ♦	3				
COURSE: MAT 104 ♦ (suggested)	3				
12 Credits required by major but fulfilling General Education requirements (suggested courses below)					
COURSE: ELU 212 Teaching Diverse Learners ♦	3				
COURSE: SPU 101 Early Intervention & Transition ♦	3				
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3				
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3				

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Visual Impairment – Elementary Education 4-8 Science & Eng./Lang. Arts & Rdg.

Program Code UCOESPUMS Effective Date: August 26, 2013 129 Credits Required

V. CERTIFICATION COURSES (42 credits)		RC	CR	GR	CAC
1. Professional Courses 3 S.H.					
ELU 212 Teaching Diverse Learners at Mid.Level ♦	#				
ITC 321 Technology in Education. Instruction ♦	#				
EDU 326 Intro. To Middle level Educ. ♦	3				
2. Natural Sciences 18 S.H.					
a. BIO 010/011	#				
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3				
c. Choose two of the following not taken in 2.b. (for 6 S.H.)					
AST 020/021 Introductory Astronomy (lab)	3				
CHM 020/021 Introduction to Chemistry (lab)	3				
GEL 020/021 Introduction to Geology (lab)	3				
PHY 020/021 Introduction to Physics (lab)	3				
CHM 051 Introduction to Forensic Science	3				
BIO/MAR 050/051 Window to the Ocean (lab)	3				
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3				
d. Choose 3 additional courses from science list (not taken in 2.b. or 2.c.)					
1.	3				
2.	3				
3.	3				
3. Mathematics 6 S.H.					
a. MAT 103 Fundamentals of Math I ♦	#				
b. MAT 104 Fundamentals of Math II ♦	#				
c. MAT 040 Geometry	3				
d. MAT 105 or MAT 115	3				
4. English/Language Arts & Reading 6 S.H.					
a. ENG 010 (or other lit course) ♦	#				
b. ENG 100 Principles of Literacy Analysis	#				
c. SPU 316 Literacy Dev. Core & Intervention ♦ (Taken in Specialization Block)	*				
d. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*				
e. ELU 221 Lit. for Upper Elem. & Mid. Level Learners ♦	3				
f. ENG Elective	3				
5. Social Studies - Choose 3 of the following - 9 S.H. (Only one from each line) (Excluding the 1 taken as a required Gen. Ed. course)					
a. American History – HIS 025 or HIS 026	#				
b. Geography – GEG 010, GEG 020, or GEG 101	3				
c. World History – HIS 014 or HIS 015	3				
d. Political Science – POL 010 or POL 020	3				
e. Economics – ECO 010, ECO 011 or ECO 012	3				
f. Sociology/Anthropology/Philosophy- SOC 010 or ANT 010 or PHI 015	3				

VI. SPECIALIZATION (18 credits)		RC	CR	GR	CAC
1. Visual Impairment 18 S.H. SPU 101 Early Intervention & Transition Disabilities ♦					
SPU 101 Early Intervention & Transition Disabilities ♦	#				
SPU 201 Cognitive Dev. Diverse Learners ♦	#				
SPU 314 Effective Inst. Strat. Disabilities ♦	#				
SPU 316 Literacy Dev. Core & Intervention ♦	#				
SPU 200 Reading, Writing & Tchg. Library Braille ♦	3				
SPU 202 Orient. & Mobility for Tchrs. of Stu. with VI ♦	3				
SPU 204 Anat./Eye & Related Assess. Students w/ VI ♦	3				
SPU 221 Assessment for Stud. w/ Visual Impairments ♦	3				
SPU 300 Reading, Writing & Tchg. Literary Braille ♦	3				
SPU 302 Adapting Materials & Methods of Instr. & Eval. ♦	3				

VII. CLINICAL COMPONENT (21 credits)		RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 9 S.H. Courses scheduled in a block Fall or Spring _____					
ELU 342 Teaching Writing at the Mid. Level ♦	3				
ELU 346 Middle Level Cognitive Development ♦	3				
ELU 348 Teaching Math & Sci to Mid. Level Learners ♦	3				
SPU 314 Effective Inst. Strat. Disabilities ♦	#				
B. Clinical Experience (Candidacy Required) 12 S.H. Fall or Spring _____					
SPU 390/391 Clinical Experience VI I & II ♦	6				
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners ♦	6				

Science List (V.3.d)

- BIO/MAR 050/051 Window to the Oceans (lecture and lab)**
BIO 130 Env. Issues: Global Perspective
BIO 140 Biology and Society
AST 020/021 Intro Astronomy (lecture & lab)
AST 030/031 Mission to the Planet (lecture & lab)
CHM 020/021 Intro to Chemistry (lecture & lab)
CHM 051 Intro to Forensic Science
GEG 204/205 Meteorology (lecture & lab)
GEL 020/021 Intro to Geology (lecture & lab)
PHY 020/021 Intro to Physics (lecture & lab)

*- Student is receiving credit for course as a Specialization requirement.

♦ -These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010	HIS 025/026 (PreK-4)
ENG 010	MAT 103
ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.)	MAT 104
GEG 020 (PreK-4)	PSY 011 (PreK-4)

- Student is receiving credit for course as a General Education requirement.



College of Education

B.S. in Visual Impairment Birth-21 – Elementary Education 4-8 Science & Social Studies

Program Code: UCOESPUSS
Version Number: 2138 – Fall 2013

Effective Date: August 26, 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) RC CR GR

A. Oral Communication: COM 010 or above			
COURSE: COM 010 ♦ (suggested)	3		
B. Written Communication: ENG 023, 024 or 025			
COURSE: ENG 023, 024 or 025 ♦ (suggested)	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 ♦ (suggested)	3		
D. Wellness: any 3-credit HEA course			
COURSE: HEA 102 (suggested)	3		

II. UNIVERSITY DISTRIBUTION (15 credits) RC CR GR CAC

A. Natural Science: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 010/011 (suggested)	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE or SWK				
COURSE: HIS 025 or HIS 026 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE: ENG LIT ♦ (suggested)	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: PHI 015 (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM RC CR GR CAC

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits) RC CR GR CAC

COURSE: SPU 201 Cognitive Development ♦	3			
COURSE: ITC 321 Instructional Technology in Ed. ♦	3			
COURSE: MAT 104 ♦ (suggested)	3			
12 Credits required by major but fulfilling General Education requirements (suggested courses below)				
COURSE: ELU 212 Teaching Diverse Learners ♦	3			
COURSE: SPU 101 Early Intervention & Transition ♦	3			
COURSE: SPU 314 Effective Inst. Strat. Disabilities ♦	3			
COURSE: SPU 316 Literacy Dev. Core & Intervent. ♦	3			

♦ -These courses require a grade of “C” or better.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessments
- Required Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of **program specific** observation hours

B.S. in Visual Impairment Birth-21 – Elementary Education 4-8 Science & Social Studies

Program Code UCOESPUSS Effective Date: August 26, 2013 132 Credits Required

V. CERTIFICATION COURSES (45 credits)	RC	CR	GR	CAC
1. Professional Courses 3 S.H.				
ELU 212 Teaching Diverse Learners at Mid. Level ♦	#			
ITC 321 Instructional Technology in Ed. ♦	#			
EDU 326 Intro. To Middle Level Educ. ♦	3			
2. Natural Sciences 18 S.H.				
a. BIO 010/011	#			
b. AST 020/021 or CHM 020/021 OR GEL 020/021 or PHY 020/021.	3			
c. Choose <u>two</u> of the following not taken in 2.b. (for 6 S.H.)				
AST 020/021 Introductory Astronomy (lab)	3			
CHM 020/021 Introduction to Chemistry (lab)	3			
GEL 020/021 Introduction to Geology (lab)	3			
PHY 020/021 Introduction to Physics (lab)	3			
CHM 051 Introduction to Forensic Science	3			
BIO/MAR 050/051 Window to the Ocean (lab)	3			
BIO 130 Envir. Issues OR BIO 140 Bio and Society	3			
d. Choose 3 additional courses from science list (not taken in 2.b. or 2.c.)				
1.	3			
2.	3			
3.	3			
3. Mathematics 6 S.H.				
a. MAT 103 Fundamentals of Math I ♦	#			
b. MAT 104 Fundamentals of Math II ♦	#			
c. MAT 040 Geometry	3			
d. MAT 105 OR MAT 115	3			
4. English/Language Arts & Reading 3 S.H.				
a. ENG 010 (or other lit course) ♦	#			
b. ELU 221 Lit. for Upper Elem. & Mid. Level Learners ♦	3			
c. ELU 342 Teaching Writing at the Mid Level- (Course is taken during Professional Semester.) ♦	*			
5. a. Social Studies - Choose 2 of the following - 15 S.H. (Only one from each line) (Excluding the 2 taken as required Gen Ed. courses)				
American History – HIS 025 or HIS 026	#			
Sociology/Anthropology/Philosophy- PHI 015	#			
Geography – GEG 010, GEG 020, or GEG 101	3			
World History – HIS 014 or HIS 015	3			
Political Science – POL 010 or POL 020	3			
Economics – ECO 010, ECO 011 or ECO 012	3			
5. b. Choose 3 other courses from social studies list not taken in 5.a.				
1.	3			
2.	3			
3.	3			

VI. SPECIALIZATION (18 credits)	RC	CR	GR	CAC
1. Visual Impairment 18 S.H. SPU 101 Early Intervention & Transition Disabilities ♦				
SPU 101 Early Intervention & Transition Disabilities ♦	#			
SPU 201 Cognitive Dev. Diverse Learners ♦	#			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
SPU 316 Literacy Dev. Core & Intervention ♦	#			
SPU 200 Reading, Writing & Tchg. Library Braille ♦	3			
SPU 202 Orient. & Mobility for Tchrs. of Stu. with VI ♦	3			
SPU 204 Anat./Eye & Related Assess. Students w/ VI ♦	3			
SPU 221 Assessment for Stud. w/ Visual Impairments ♦	3			
SPU 300 Reading, Writing & Tchg. Literary Braille ♦	3			
SPU 302 Adapting Materials & Methods of Instr. & Eval. ♦	3			

VII. CLINICAL COMPONENT (21 credits)	RC	CR	GR	CAC
A. Professional Semester (Candidacy Required) 9 S.H. Courses scheduled in a block Fall or Spring _____				
ELU 342 Teaching Writing at the Mid Level ♦	3			
ELU 346 Middle Level Cognitive Development ♦	3			
ELU 348 Teaching Math & Sci. to Mid. Level Learners ♦	3			
SPU 314 Effective Inst. Strat. Disabilities ♦	#			
B. Clinical Experience (Candidacy Required) 12 S.H. Fall or Spring _____				
SPU 390/391 Clinical Experience VI I & II ♦	6			
ELU 392/393 Clinical Experience I & II with Mid. Lev. Learners ♦	6			

Science List (V.3.d)

BIO/MAR 050/051 Window to the Oceans (lecture and lab)

BIO 130	Env. Issues: Global Perspective
BIO 140	Biology and Society
AST 020/021	Intro Astronomy (lecture & lab)
AST 030/031	Mission to the Planet (lecture & lab)
CHM 020/021	Intro to Chemistry (lecture & lab)
CHM 051	Intro to Forensic Science
GEG 204/205	Meteorology (lecture & lab)
GEL 020/021	Intro to Geology (lecture & lab)
PHY 020/021	Intro to Physics (lecture & lab)

Social Studies List (V.6.b)

ANT 010; ECO 011 or ECO 012
 HIS 014 or HIS 015; HIS 025 or HIS 026; HIS 120
 GEG 010 or GEG 020 or GEG 101
 POL 010 or POL 020; SOC 010

*- Student is receiving credit for course as a Specialization requirement.

♦ -These courses require a grade of "C" or better.

- The following courses are required by your major, but can satisfy General Education requirements:

BIO 010	HIS 025/026 (PreK-4)
ENG 010	MAT 103
ENG 100 (4-8 Engl.) / PHI 015 (4-8 non-Engl.)	MAT 104
GEG 020 (PreK-4)	PSY 011 (PreK-4)

- Student is receiving credit for course as a General Education requirement.



COLLEGE OF EDUCATION • BSED • LIBRARY SCIENCE

Program Number: UCOELIBSE

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	
A. Oral Communication: COM 010 or above				
COURSE:	3			
B. Written Communication: ENG 023, 024 or 025 ♦				
COURSE:	3			
C. Mathematics: MAT 017 or above ♦				
COURSE:	3			
D. Wellness: Any 3-credit HEA course				
COURSE:	3			

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: PSY 11 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGA, or Modern Language				
COURSE: ENG Lit (suggested) ♦	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OTI Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OTI Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

GENERAL EDUCATION

A Competency across the Curriculum (CAC) course is not a separate course, but rather an overlay that is “double counted” as fulfilling both the CAC requirement and another requirement

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204,

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
A. MAT				
COURSE: MAT 017 or higher ♦ (suggested)	3			
B. LLT 321 Technologies for 21 st Century Educator ♦	3			
C. SPU 201 (suggested) ♦	3			
D. 12 credits required by major but fulfilling General Education Requirements				
COURSE:	3			

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Passing scores on Basic Skills Assessments
- 3.0 or higher Grade Point Average
- C or better in ENG 023, 024 or 025
- C or better in any ENG literature course
- C or better in two mathematics courses
- Completion of program specific observation hours

V. CERTIFICATION COURSES (30 credits)

RC CR GR CAC

Required Courses:				
LLT 200 Foundations of Information Science ♦	3			
LLT 310 Information Resources and Services ♦	3			
LLT 320 Resources for Children and Young Adults ♦	3			
LLT 324 Librarian’s Role in Reading Strategies ♦	3			
LLT 330 Makerspaces and Technology Enhanced Programming ♦	3			
EDU 100 Perspectives on American Education ♦	3			
EDU 150 Meeting the Instructional Needs of English Language Learners+	3			
SPU 314 Effective Instructional Strategies ♦	3			
SPU 316 Literacy Development and Instruction in Core and Intervention Areas ♦	3			
PSY 110 Child Psychology	3			

VI. ELECTIVES: (15 credits) With their advisor’s guidance, students are encouraged to select an appropriate minor requiring 18 credits

Course:	3			

VII. CLINICAL COMPONENT – Professional Semester (15 credits)

LLT 340 Management of Information and Technology Centers ♦	3			
LLT 350 Collecting and Curating Print and Digital Resources ♦	3			
LLT 360 Organization of Information, Metadata, and Library Technologies ♦	3			
LLT 370 Educational Program of the Library ♦	3			
LLT 385 Digital Portfolios ♦	3			

CLINICAL COMPONENT – Clinical Experience (12 credits)

LLT 398 Clinical Experience and Practicum I ♦	6			
LLT 399 Clinical Experience and Practicum II ♦	6			

♦ These courses require a grade of “C” or better



College of Education
Educational Studies Track - B.S. Ed. Special Education

Program: UCOESPUEDS

Effective Date: August 25, 2014

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
Course:	3		
B. Written Communication: ENG 023, 024 or 025			
Course:	3		
C. Mathematics: MAT 017 or above			
Course:	3		
D. Wellness: any 3-credit HEA course			
Course:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
COURSE: SPU 201 (suggested) ♦	3			
COURSE: ITC 321 or higher (suggested) ♦	3			
COURSE: MAT 017 or higher (suggested) ♦	3			
12 Credits				
COURSE:	3			

College of Education
Educational Studies Track - B.S. Ed. Special Education

Program: UCOESPUEDS

Effective Date: August 24, 2015

V. Requirements 42/45 S.H.

Required courses 42/45 S.H.	
SPU 101 Early Intervention & Transition Disabilities	3
SPU 201 Cognitive Development Diverse Learners	#
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3
SPU 316 Literacy Development Core & Intervention	3
SPU 318 Assessment and Instructional Methods for Students with Disabilities	3
SPU 330 Teaching Students with Low Incidence Disabilities	3
EEU 211 Family Collaboration and Diversity	3
PSY 110 Child Psychology	3
PSY 120 Adolescent Psychology	3
COM 130 Interpersonal Communications	3
CRJ 010 Introduction to Criminal Justice	3
SOC 010 Principles of Sociology	3
SWK 100 Introduction to Social Work	3
WRI 207 Writing for the Workplace OR PHI 15 Critical Thinking	3
SPU 381 Internship	3/6

Diversity Course Elective Listing:

ANT 010 ANT 130 ANT 215 ANT 226 ANT 290
 COM 213
 CRJ 230 CRJ 231
 HIS 150
 INT 010
 POL 030
 PSY 215 PSY 240
 SOC 010 SOC 110 SOC 120 SOC 140 SOC 230
 COM 213

(Please note: ANT 130, ANT 290, PSY 215, PSY 240 and SOC 110 have pre-requisites.)

VI. Electives 30 S.H.

Elective: Diversity Course	3
Elective	3

VI. Electives listing

Child Care/Early Childhood Concentration

EEU 130 Early Childhood Development: Theories and Practices
 EEU 202 Dispositions towards Advocacy, Collaboration, and Cooperation
 EEU 205 Teaching Science in Early Childhood
 EEU 209 Math Foundations for Pre-K 1
 EEU 220 Children's Literature for Pre-K 4

Human Behavior Concentration (Choice of 18 credits)

PSY 011 General Psychology
 Three PSY courses at the 200 level or above
 Two PSY courses not taken from above PSY courses
 Three SOC courses at the 200 level or above
 Two SOC courses not taken from above SOC courses
 SWK 130 Poverty and Social Welfare
 SWK 160 Human Behavior and Social Environment
 SWK 200 The Professional Context of Social Work Practice
 SWK 255 Social Welfare Policy
 SWK 320



College of Education
Educational Studies Track - B.S. Ed. Visually Impaired

Program: UCOESPUVIS

Effective Date: August 25, 2014

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)

RC CR GR

A. Oral Communication: COM 010 or above			
Course:	3		
B. Written Communication: ENG 023, 024 or 025			
Course:	3		
C. Mathematics: MAT 017 or above			
Course:	3		
D. Wellness: any 3-credit HEA course			
Course:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)

RC CR GR CAC

A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Science: Any course with prefix ANT, CRJ, ECO, GEG (see note at right), HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM

RC CR GR CAC

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirements and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits

CR = Credits earned (fill in number of credits)

GR = Grade earned (fill in letter grade)

CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may **NOT** be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)

RC CR GR CAC

COURSE: SPU 201 (suggested) ♦	3			
COURSE: ITC 321 or higher (suggested) ♦	3			
COURSE: MAT 017 or higher (suggested) ♦	3			
12 Credits				
COURSE:	3			

College of Education
Educational Studies Track - B.S. Ed. Visually Impaired

Program: UCOESPUVIS

Effective Date: August 24, 2015

V. Requirements 42/45 S.H.

Required courses 42/45 S.H.	
SPU 101 Early Intervention & Transition Disabilities	3
SPU 201 Cognitive Development Diverse Learners	#
SPU 202 Orientation and Mobility for students with visual impairment and deaf-blindness	3
SPU 200 Reading, Writing, and Teaching Literary Braille	3
SPU 204 Anatomy of the Eye	3
SPU 330 Teaching Students with Low Incidence Disabilities	3
EEU 211 Family Collaboration and Diversity	3
PSY 110 Child Psychology	3
PSY 120 Adolescent Psychology	3
COM 130 Interpersonal Communications	3
CRJ 010 Introduction to Criminal Justice	3
SOC 010 Principles of Sociology	3
SWK 100 Introduction to Social Work	3
WRI 207 Writing for the Workplace OR PHI 15 Critical Thinking	3
SPU 381 Internship	3/6

Diversity Course Elective Listing:

ANT 010 ANT 130 ANT 215 ANT 226 ANT 290
 COM 213
 CRJ 230 CRJ 231
 HIS 150
 INT 010
 POL 030
 PSY 215 PSY 240
 SOC 010 SOC 110 SOC 120 SOC 140 SOC 230
 COM 213

(Please note: ANT 130, ANT 290, PSY 215, PSY 240 and SOC 110 have pre-requisites.)

VI. Electives 30 S.H.

Elective: Diversity Course	3
Elective	3

VI. Electives listing

Child Care/Early Childhood Concentration

EEU 130 Early Childhood Development: Theories and Practices
 EEU 202 Dispositions towards Advocacy, Collaboration, and Cooperation
 EEU 205 Teaching Science in Early Childhood
 EEU 209 Math Foundations for Pre-K 1
 EEU 220 Children's Literature for Pre-K 4

Human Behavior Concentration (Choice of 18 credits)

PSY 011 General Psychology
 Three PSY courses at the 200 level or above
 Two PSY courses not taken from above PSY courses
 Three SOC courses at the 200 level or above
 Two SOC courses not taken from above SOC courses
 SWK 130 Poverty and Social Welfare
 SWK 160 Human Behavior and Social Environment
 SWK 200 The Professional Context of Social Work Practice
 SWK 255 Social Welfare Policy
 SWK 320

Department of Library and Learning Technologies Minor Program
18 semester hours
Effective Fall 2017
 Program UCOELIBS2

I. Required Courses 9 s.h.	Credits	Grade
LLT 200 Foundations of Information Science	3	
LLT 350 Collecting and Curating Print and Digital Resources	3	
LLT 390 Internship (120 hours) School, Public, Academic	3	
II. Elective Courses 9 s.h. Suggested electives include:		
LLT 320 WICD Resources for Children and Young Adults	3	
LL T 330 Makerspaces	3	
LL T 342 Public Librarianship	3	
LL T 360 Organization of Information, Metadata, and Library Technologies	3	
LL T 364 Preservation, Digitization and Archiving and Preservation	3	
LL T 370 Educational Program of the Library	3	
Any course with the prefix ANT, ARC, ART, CSC, HIS or LL T with approval of the Library Science Minor Advisor		

COLLEGE OF LIBERAL ARTS & SCIENCES

The mission of the College of Liberal Arts and Sciences is to prepare students to achieve their academic goals, to access and critically examine increasingly complex sources of information, to take an active role in their society and world, and to commit themselves to lifelong learning. This mission is accomplished through both curricular and co-curricular elements. The general education curriculum provides students with a foundation in the liberal arts and sciences that emphasizes the development of communication, computational, and analytical skills; of an understanding of the methods used in the natural and social sciences; and of an appreciation of the arts and humanities. The major program curriculum provides students with a depth of knowledge in a particular discipline that prepares them for their chosen careers or graduate or professional studies. Co-curricular opportunities such as internships, service learning, and international travel provide students with individualized growth experiences.

- Dr. David Beougher, Dean

Bachelor of Arts

B.A. Anthropology

B.A. English

B.A. English: Culture & Media

B.A. English: Paralegal

B.A. English: Professional Writing

B.A. English: Professional Writing/Culture & Media

B.A. General Studies

B.A. Geography: Applied

B.A. Geography: Environmental

B.A. Geography: General

B.A. Geography: Globalization

B.A. Geography: Planning

B.A. German Studies: Communication and Culture
B.A. German: Interdisciplinary
B.A. German Studies: Pennsylvania German Culture in America
B.A. History
B.A. History: Paralegal Studies
B.A. Philosophy
B.A. Philosophy: Religious Studies
B.A. Political Science
B.A. Political Science: Paralegal Studies
B.A. Sociology
B.A. Sociology: Diversity & Inequality
B.A. Sociology: Family
B.A. Sociology: Social Order & Deviant Behavior
B.A. Spanish

Bachelor of Science

B.S. Biochemistry
B.S. Biology: Allied Health
B.S. Biology: Molecular/Micro/Cell
B.S. Biology: Organismal/Ecology
B.S. Biology: Pre-Med & Other Health Careers
B.S. Chemistry
B.S. Computer Science: Information Technology

B.S. Computer Science: Software Development

B.S. Criminal Justice

B.S. Criminal Justice: Paralegal Studies

B.S. Environmental Science: Biology

B.S. Environmental Science: Chemistry

B.S. Environmental Science: Geography

B.S. Environmental Science: Geology

B.S. General Studies

B.S. General Studies: Professional Studies

B.S. Geology

B.S. Information Technology

B.S. Marine Science: Biology

B.S. Marine Science: Oceanography

B.S. Mathematics

B.S. Physics

B.S. Physics: Astronomy

B.S. Physics: Engineering Physics

B.S. Psychology: Clinical/Counseling

B.S. Psychology: General

B.S. Psychology: Industrial/Organizational

B.S. Psychology: Paralegal Studies

B.S. Public Administration

B.S. Public Administration: Paralegal Studies

Bachelor of Social Work

Minors

Actuarial Science

Anthropology

Astronomy

Biochemistry

Bioethics

Biology

Chemistry

Computer Science

Criminal Justice

Environmental Geography

Forensic Studies

Geography

Geology

German Communication and Culture

History

Homeland Security

Information Technology

Literature

Marine Science

Mathematics
Pennsylvania German Studies
Philosophy
Physics
Planning Geography
Political Science
Professional Writing
Psychology
Public Administration
Social Work
Sociology
Software Development
Spanish
Spanish for Modern Business



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • ANTHROPOLOGY

Program Code: ULASANT

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) CM				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) CM				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

BA Anthropology

Department of Anthropology & Sociology

Program
 Program Effective:
 Review Date:

ULASANT
 Spring2014
 April 25, 2013UCC

B. MAJOR PROGRAM: 39 SH*

1. REQUIRED COURSES: 24 SH		
ANT 010CD Cultural Anthropology		3
ANT 020 Physical Anthropology		3
ANT 030CD Intro to Archaeology		3
ANT 04CD Language and Culture		3
ANT 201 Archaeol. Theory & Technique or ANT 202CTQL Research Methds in Phys Anthro		3
ANT 320 Archaeology Field Methods or ANT 335CTWI Ethnographic Research Methods		3
ANT 360CMWI History and Theory/ Anthro.		3
ANT 380CTWI Senior Seminar		3

2. AREA STUDIES 6 SH

Select From ANT 100 through ANT 199		
		3
		3

3. Topics in Anthropology 9 SH

Select From ANT 200 through ANT 399 or ANT 880 through ANT 899 *		
		3
		3
		3

C. ELECTIVE COURSES: 21 SH GR SH

Electives can be selected from any department or program. 12 SH must be at the 100 level or above.

* A minimum QPA of 2.00 is required to declare this major. ANT 201, 202, 320, 335 cannot be used as Topics (3) if used as Required (1).

Degree Requirements

1. Semester Hours:		SH
a. General Education	60	SH
b. Major Program	39	SH
c. Elective Courses	21	SH
Total minimum credit hours: 120 minimum		
2. QPA: Overall (2.00 minimum)	Y	N
Major (2.00 minimum)	Y	N
3. Passed Comprehensive Exam or Portfolio	Y	N
4. Cleared for Graduation (term/ vr.):		



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • ENGLISH

Program Code: **ULASENG**

Version Number: 2118-Fall 2011

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

C. Humanities (6 credits): Choose one course in each subcategory.	RC	CR	GR	CAC
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • ENGLISH

Program Code: ULASENG

Version Number: 2152-Spring 2015

Effective Date: January 20, 2015

MAJOR PROGRAM: 42 CREDITS

I. REQUIRED COURSES (15 credits)	RC	CR	GR	CAC
A. ENG 100: Principles of Literary Analysis*	3			
B. ENG 105: Experiences in American Lit or ENG 137: Experiences in African Am Lit				
COURSE:	3			
C. ENG 106: Experiences in British Lit	3			
D. ENG 379: Literary Theory	3			
E. ENG 380: Senior Seminar	3			

II. ENGLISH ELECTIVES (27 credits)	RC	CR	GR	CAC	C/R/L Y/N
A. British Literature or Rhetoric before 1800:					
COURSE:	3				
B. British Literature or Rhetoric after 1800:					
COURSE:	3				
C. American Literature or Rhetoric:					
COURSE:	3				
D. World Literature or Rhetoric:					
COURSE:	3				
E. Genre:					
COURSE:	3				
F. Diverse Literature or Rhetoric:					
COURSE:	3				
G. ENG/ENU: At the 200 level or above					
COURSE:	3				
H. ENG/ENU: At the 300 or 400 level					
COURSE:	3				
I. ENG/ENU:					
COURSE:	3				

A minimum of one of the above categories must be fulfilled with a Composition, Rhetoric, or Literacy course taken at the 100 level or above.

III. CONCOMITANTS (9 credits)	RC	CR	GR	CAC
A.				
COURSE:	3			
B.				
COURSE:	3			
C.				
COURSE:	3			

Concomitant and LAS Elective courses may be used to minor in another field, concentrate in one or two different academic fields according to the student's career interests, or pursue some other plan of study. Courses selected should relate to the major program. All above options must be worked out in consultation with the advisor. All credits must be at the 100 level or above.

IV. LAS ELECTIVES (9 credits)	RC	CR	GR	CAC
A.				
COURSE:	3			
B.				
COURSE:	3			
C.				
COURSE:	3			

V. CLUSTER REQUIREMENTS:	RC	CR	GR	Y/N
A. Cluster 1 Title: (9 credits)				
1. ENG:				
COURSE:	3			
2. ENG:				
COURSE:	3			
3. Concomitant/Elective:				
COURSE:	3			
B. Cluster 2 Title: (9 credits)				
1. ENG:				
COURSE:	3			
2. ENG:				
COURSE:	3			
3. Concomitant/Elective:				
COURSE:	3			

These are not additional credits but groupings of courses above. (6 credits ENG and 3 credits Concomitants /Electives each.)

Notes:

- Any ENG courses below the 100 level taken under Gen Ed will not count towards the 42 credits in the major.
- No English courses can be used as concomitants or electives in the major.
- Twenty-four credits must be at the 200 level or above.
- ENG 100 must be taken before taking ENG 379.
- For Section II, the "Rhetoric" options include any composition, rhetoric, or literacy studies course at the 100 level or above offered by the English department.
- Clusters are identified in the advising guidelines and in consultation with the Major advisor. The three related courses do not need to be taken in the same semester, though this would be ideal. ENG 105 Experiences in American Lit and ENG 106 Experiences in British Lit are not to be used for clusters.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • ENGLISH / CULTURE AND MEDIA

Program Code: ULASENGCM

Version Number: 2118-Fall 2011

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • ENGLISH / CULTURE AND MEDIA

Program Code: ULASENGCM

Version Number: 2118-Fall 2011

Effective Date: August 29, 2011

MAJOR PROGRAM: 42 CREDITS

I. REQUIRED COURSES (15 credits)	RC	CR	GR	CAC
A. ENG 100: Principles of Literary Analysis*	3			
B. ENG 105: Experiences in American Lit or ENG 137: Experiences in African Am Lit				
COURSE:	3			
C. ENG 106: Experiences in British Lit	3			
D. ENG 379: Literary Theory	3			
E. ENG 380: Senior Seminar	3			

II. ENGLISH ELECTIVES (27 credits)	RC	CR	GR	CAC	C/R/L Y/N
A. British Literature or Rhetoric before 1800:					
COURSE:	3				
B. British Literature or Rhetoric after 1800:					
COURSE:	3				
C. American Literature or Rhetoric:					
COURSE:	3				
D. World Literature or Rhetoric:					
COURSE:	3				
E. Genre:					
COURSE:	3				
F. Diverse Literature or Rhetoric:					
COURSE:	3				
G. ENG/ENU: At the 200 level or above					
COURSE:	3				
H. ENG/ENU: At the 300 or 400 level					
COURSE:	3				
I. ENG/ENU:					
COURSE:	3				

A minimum of one of the above categories must be fulfilled with a Composition, Rhetoric, or Literacy course taken at the 100 level or above.

III. CONCOMITANTS: (9 credits*)	RC	CR	GR
A.	3		
B.	3		
C.	3		

IV. LAS ELECTIVES: (9 credits)	RC	CR	GR
A.	3		
B.	3		
C.	3		

*Courses must be at the 100 level or above. Electives may be taken in any discipline in which courses are acceptable as electives in the college of Liberal Arts & Sciences

V. CLUSTER REQUIREMENTS: (9 credits)	RC	CR	GR
A. Cluster I Title:			
1. ENG:	3		
2. ENG:	3		
3. Concomitant:	3		
B. Cluster II Title:			
1. ENG:	3		
2. ENG:	3		
3. Concomitant:	3		

These are not additional credits but groupings of courses above. (6 credits ENG and 3 credits Concomitants /Electives each.)

VI. Concentration in Cultural & Media Studies: (18 credits)	RC	CR	GR
Required Courses: (6 credits)			
WRI 212: Intro to Mass Communication	3		
ENG 219: Culture & Media	3		
Media Analysis: (3 credits)			
<i>Select 1 course from the following:</i> ENG 119, ENG 141, ENG 242, ENG 244, ENG 246, ENG 316			
COURSE:	3		
Electives: (9 credits)			
<i>Select any 3 courses not already taken from any of the following: ENG 119, ENG 141, ENG 242, ENG 244, ENG 246, ENG 274, ENG 316, ENG 370, ENG 371, ENG 430, *WRI 304, §WRI 314, ^WRI 340, WRI 370, WRI 371, †WRI 390, *WRI 410, §HUM 390</i>			
COURSE:	3		
COURSE:	3		
COURSE:	3		

Notes:

- Any ENG courses below the 100 level taken under Gen Ed will not count towards the 42 credits in the major.
- No English courses can be used as Concomitants or LAS Electives. However, the following English courses can be used when appropriate for the Concentration: ENG 141, ENG 119, ENG 219, ENG 242, ENG 244, ENG 246, ENG 274. Each course can only be used once. WRI courses that satisfy the Concentration should be taken as Concomitants or LAS Electives.
- Twenty-four credits must be at the 200 level or above.
- ENG 100 must be taken before taking ENG 379.
- For Section II, the "Rhetoric" options include any composition, rhetoric, or literacy studies course at the 100 level or above offered by the English department.
- Clusters are identified in the advising guidelines and in consultation with the Major advisor. The three related courses do not need to be taken in the same semester, though this would be ideal. ENG 105 Experiences in American Lit and ENG 106 Experiences in British Lit are not to be used for clusters.

* Prerequisite: WRI 211

^ Prerequisite: WRI 208

§ Prerequisite: WRI 211 or WRI 214

† Internships must be concentration related.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • ENGLISH / PARALEGAL

Program Code: ULASENGPL

Version Number: 2118-Fall 2011

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) CP				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) CM				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • ENGLISH / PARALEGAL

Program Code: ULASENGPL

Version Number: 2118-Fall 2011

Effective Date: August 29, 2011

MAJOR PROGRAM: 42 CREDITS

I. REQUIRED COURSES: (15 credits)

	RC	CR	GR	CAC
A. ENG 100: Principles of Literary Analysis	3			
B. ENG 105: Experiences in American Lit or ENG 137: Experiences in African Am Lit				
COURSE:	3			
C. ENG 106: Experiences in British Lit	3			
D. ENG 379: Literary Theory	3			
E. ENG 380: Senior Seminar	3			

Note: Must be taken before ENG 379.

II. ENGLISH ELECTIVES: (27 credits)

	RC	CR	GR	CAC	C/R/L Y/N
A. British Literature or Rhetoric before 1800:					
COURSE:	3				
B. British Literature or Rhetoric after 1800:					
COURSE:	3				
C. American Literature or Rhetoric:					
COURSE:	3				
D. World Literature or Rhetoric:					
COURSE:	3				
E. Genre:					
COURSE:	3				
F. Diverse Literature or Rhetoric:					
COURSE:	3				
G. ENG/ENU: At the 200 level or above					
COURSE:	3				
H. ENG/ENU: At the 300 or 400 level					
COURSE:	3				
I. ENG/ENU:					
COURSE:	3				

III. CLUSTER REQUIREMENTS:

Two Clusters of 6 credits and 3 credits at the 100 level or above from the Paralegal Studies Program and/or from the electives in Categories II, III, IV, V of General Education.

Taken
Y/N

A. Cluster I Title:				
1. ENG:				
2. ENG:				
3. PLG/EL:				
B. Cluster II Title:				
1. ENG:				
2. ENG:				
3. PLG/EL:				

IV. Required Courses: (18 Credits)

	RC	CR	GR
A. PLG 120: Intro to Paralegal Studies	3		
B. PLG 150: Torts & Personal Injury	3		
C. PLG 200: Civil Litigation	3		
D. PLG 215: Law Office Management	3		
E. PLG 220: Contract Law & Business Organization	3		
F. PLG 245: Legal Research & Writing	3		
Elective: (3 credits)			
A. PLG 125: Worker's Comp. Practice	3		
B. PLG 130: Social Security Disability Practice	2		
C. PLG 135: Interviewing for Paralegals	1		
D. PLG 230: Estates and Trusts	3		
E. PLG 235: Family Law	3		
F. PLG 240: Bankruptcy Law	3		
G. PLG 250: Legal Internship	3		
H. PLG 255: Legal Writing	3		

Non-Three (3) credit PLG courses must be taken together in the same semester to total 3 credits.

Notes:

- Any ENG courses below the 100 level taken under Gen Ed will not count towards the 42 credits in the major.
- No English courses can be used as concomitants or electives in the major.
- Twenty-four credits must be at the 200 level or above.
- ENG 100 must be taken before taking ENG 379.
- For Section II, the "Rhetoric" options include any composition, rhetoric, or literacy studies course at the 100 level or above offered by the English department.
- Clusters are identified in the advising guidelines and in consultation with the Major advisor. The three related courses do not need to be taken in the same semester, though this would be ideal. ENG 105 Experiences in American Lit and ENG 106 Experiences in British Lit are not to be used for clusters.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • ENGLISH / PROFESSIONAL WRITING

Program Code: ULASENGPW

Version Number: 2118-Fall 2011

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • ENGLISH / PROFESSIONAL WRITING

Program Code: ULASENGPW

Version Number: 2118-Fall 2011

Effective Date: August 29, 2011

MAJOR PROGRAM: 42 CREDITS

I. PREREQUISITES: (18 credits)

	RC	CR	GR
A. WRI 100: Contemporary Issues	3		
B. WRI 207: Writing for the Workplace	3		
C. WRI 208: Creative Writing: Forms	3		
D. WRI 211: Journalism I	3		
E. WRI 212: Intro to Mass Communications	3		
F. WRI 213: Copy & Line Editing	3		

Students must have a "B" or better in ENG 023 English Composition or ENG 025 Honors Composition before taking any course in Professional Writing.

Students must consult the course catalog to determine whether they have met course prerequisites.

At least two Major Electives must be at the 300 level or above (300*).

The total number of WRI semester hours in the Major Electives and Professional Semester must total 24. The number of credits earned through internship(s) will determine whether students can take additional WRI courses at part of the minimum 120 credits required for graduation.

No more than 44 credits of WRI courses may count toward graduation.

II. MAJOR ELECTIVES: (12-18 credits)

	RC	CR	GR
A. WRI 300*			
COURSE:	3		
B. WRI 300*			
COURSE:	3		
C. WRI			
COURSE:	3		
D. WRI			
COURSE:	3		
E. WRI (if needed)			
COURSE:	3		
F. WRI (if needed)			
COURSE:	3		

III. PROFESSIONAL SEMESTER: (6-12 credits)

	RC	CR	GR
A. WRI 380 Professional Seminar	3		
B. WRI 390 Internship (3-9 credits)	3		

Students must have a 3.0 or better in the 18-credit core, at least two WRI courses at the 300 level or above in the major Electives, and a "C" or better in the ENG 230 Advanced Composition. (Concomitant below), to register for their Professional Semester.

Students may take one or two internships; the internships may not total more than 9 credits, the first 3 credits of which must be taken concurrently with WRI 380, Professional Semester.

IV. CONCOMITANTS : (6 credits)

	RC	CR	GR
A. ENG 230: Advanced Composition	3		
B. ENG:			
COURSE:	3		
Courses must be at the 100 level or above.			

V. LAS ELECTIVES/CONCOMITANTS: (12 credits)

	RC	CR	GR
A.			
COURSE:	3		
B.			
COURSE:	3		
C.			
COURSE:	3		
D.			
COURSE:	3		



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • PROFESSIONAL WRITING / CULTURE & MEDIA

Program Code: ULASENGPC

Version Number: 2118-Fall 2011

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • PROFESSIONAL WRITING / CULTURE & MEDIA

Program Code: ULASENGPC

Version Number: 2118-Fall 2011

Effective Date: August 29, 2011

MAJOR PROGRAM: 42 CREDITS

I. Required Courses: (18 credits)	RC	CR	GR
A. WRI 100: Contemporary Issues	3		
B. WRI 207: Writing for the Workplace	3		
C. WRI 208: Creative Writing: Forms	3		
D. WRI 211: Journalism I	3		
E. WRI 212: Intro to Mass Communications	3		
F. WRI 213: Copy & Line Editing	3		

Students must have a "B" or better in ENG 023 English Composition or ENG 025 Honors Composition before taking any course in Professional Writing.

Students must consult the course catalog to determine whether they have met course prerequisites.

At least two Major Electives must be at the 300 level or above (300*).

The total number of WRI semester hours in the Major Electives and Professional Semester must total 24. The number of credits earned through internship(s) will determine whether students can take additional WRI courses at part of the minimum 120 credits required for graduation.

No more than 44 credits of WRI courses may count toward graduation.

II. PW ELECTIVES: (12-18 credits)	RC	CR	GR
A. WRI: 3__/4__*			
COURSE:	3		
B. WRI: 3__/4__*			
COURSE:	3		
C. WRI:			
COURSE:	3		
D. WRI:			
COURSE:	3		
E. WRI: (if needed)			
COURSE:	3		
F. WRI: (if needed)			
COURSE:	3		

III. PROFESSIONAL SEMESTER: (6-12 credits)	RC	CR	GR
A. WRI 380: Professional Seminar	3		
B. WRI 390: Internship (3-9 credits)	3		

Students must have a 3.0 or better in the 18-credits of required courses, at least two WRI courses at the 300 level or above in the major Electives, and a "C" or better in the ENG 230 Advanced Composition (Concomitant below), to register for Professional Semester.

Students may take one or two internships; the internships may not total more than 9 credits, the first 3 credits of which *must* be taken concurrently with WRI 380, Professional Semester.

IV. CONCOMITANTS: (6 credits)	RC	CR	GR
A. ENG 230: Advanced Composition	3		
B. ENG:			
COURSE:	3		

All courses at the 100 level or above.

V. LAS ELECTIVES/CONMITANTS: (12 credits)	RC	CR	GR
A.			
COURSE:	3		
B.			
COURSE:	3		
C.			
COURSE:	3		
D.			
COURSE:	3		

All courses at the 100 level or above in the College of LAS and in the College of Business count. Students may use a course below the 100 level if it is required for a minor or they have received permission from the LAS Dean.

VI. Concentration in Cultural & Media Studies: (18 credits)	RC	CR	GR
Required Courses: (6 credits)			
WRI 212: Intro to Mass Communication	3		
ENG 219: Culture & Media	3		
Media Analysis: (3 credits)			
<i>Select 1 course from the following:</i> ENG 119, ENG 141, ENG 242, ENG 244, ENG 246, ENG 316			
COURSE:	3		
Electives: (9 credits)			
<i>Select any 3 courses not already taken from any of the following:</i> ENG 119, ENG 141, ENG 242, ENG 244, ENG 246, ENG 274, ENG 316, ENG 370, ENG 371, ENG 430, *WRI 304, §WRI 314, ^WRI 340, WRI 370, WRI 371, †WRI 390, *WRI 410, §HUM 390			
COURSE:	3		
COURSE:	3		
COURSE:	3		

* Prerequisite: WRI 211

^ Prerequisite: WRI 208

§ Prerequisite: WRI 211 or WRI 214

† Internships must be concentration related.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • MAJOR

Program Code

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) CM Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) CM Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • GEOGRAPHY / APPLIED TRACK

Academic Plan: **ULASGEOAP**

GENERAL EDUCATION

Effective Date: **08/24/2015 (Ver. 2158)**

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit Wellness course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE: GEG 380 CTWI Senior Seminar[†]	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE: GEG 274 CPQL Intro. to GIS[†]	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE: GEG 330 CPVL Cartography[†]	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE: GEG 020 CD Cultural Geography[†]	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE: GEG 380 CTWI Senior Seminar[†]	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor. [†]Suggested placement of required thematic course.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, MAR, or PHY; or GEG (see note at right)				
COURSE:	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEL, MAR, MAT, NSE, PHY; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: ANT, GEG (see note at right), HIS, or POL				
COURSE:	3			
2. Elective: CRJ, PSY, SOC, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: ENG, HUM, PAG*, or WRI				
COURSE:	3			
2. Elective: (ARA, CHI, FRE, GER, MLS, SPA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits) (103 or above)				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, MAR, PHY, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses. Contact the Modern Language Studies Dept. for clarification.

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Check sheet revised: 8/21/2015

B.A. GEOGRAPHY / APPLIED TRACK (Academic Plan: ULASGEOAP)

MAJOR PROGRAM: 42 S.H.		
1. Core Requirements: 18 S.H.	<u>SH</u>	<u>GR</u>
a. GEG 010 Elements of Physical Geog.		
b. GEG 020CD Elements of Cultural Geog.		
c. GEG 274CPQL Introduction to GIS		
d. GEG 330CPVL Cartography		
e. GEG 375 Research Methods in Geog.*		
f. GEG 380CTWI Sr. Seminar in Geog.†		
†Core courses a. through e. must be completed prior to enrolling in GEG 380CTWI Senior Seminar.		

2. Category Requirements: 6 S.H. One course from 2 of the following categories:		
a. GEG (Cultural or Regional)		
b. GEG (Economic)		
c. GEG (Physical)		
d. GEG (Techniques)		

CULTURAL GEOGRAPHY:

GEG 210	Environmental Conservation
GEG 225CMCT	Spaces of Globalization
GEG 264	Medical Geography
GEG 335	Political Geography
GEG 338	Geography of Population

ECONOMIC GEOGRAPHY:

GEG 220	Economic Geography
GEG 223	Intro. to Transportation Geography
GEG 225CMCT	Spaces of Globalization
GEG 310WI	Urban Geography

GEOGRAPHIC TECHNIQUES:

GEG 230	Map Reading and Interpretation
GEG 232	Field Methods in Geography
GEG 274CPQL	Introduction to GIS Lecture / Lab
GEG 330CPVL	Cartography
GEG 333	Advanced GIS
GEG 341	Environmental Planning
GEG 343	Land Use Planning
GEG 347	Remote Sensing Lecture / Lab
GEG 375	Research Methods in Geography

MAJOR PROGRAM (continued)		
3. Applied Track: 18 S.H. Select 5 of the following and GEG 394:	<u>SH</u>	<u>GR</u>
a. GEG 230 Map Reading and Interpretation		
b. GEG 232 Field Methods in Geography		
c. GEG 304/305 Weather Analysis Lecture/Lab		
d. GEG 333 Advanced GIS		
e. GEG 341 Environmental Planning		
f. GEG 343 Land Use Planning		
g. GEG 347/348 Remote Sensing Lecture/Lab		
h. GEG 394 Internship in Geography (required)†		
†Requires 2.5 GPA or better in Geography.		

ELECTIVES or MINOR: 18 S.H.	<u>SH</u>	<u>GR</u>
a.		
b.		
c.		
d.		
e.		
f.		

*Statistics Requirement Verification

Statistics is a prerequisite to GEG 375. Geography students must take a statistics course: MAT 140 or 150, or POL/PSY/SOC200. MAT 105 is a prerequisite for MAT 140. PSY 011 and MAT 017 or higher (excluding 040 and 045) are prerequisites for PSY 200.

PHYSICAL GEOGRAPHY:

GEG 040	Descriptive Oceanography
GEG 204	Meteorology Lecture / Lab
GEG 212	Geography of Natural Hazards
GEG 304	Weather Analysis Lecture / Lab
GEG 322	Climatology
GEG 323	Global Warming & Science of Climate Change
GEG 324	Geomorphology Lecture / Lab

REGIONAL GEOGRAPHY:

GEG 101	World Regional Geography
GEG 110	Geography of United States and Canada
GEG 112	Geography of Pennsylvania
GEG 120	Geography of Sub-Saharan Africa
GEG 140	Geography of Europe



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • GEOGRAPHY / ENVIRONMENTAL TRACK

Academic Plan: **ULASGEOEN**

GENERAL EDUCATION

Effective Date: **08/24/2015 (Version: 2158)**

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit Wellness course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE: GEG 380 CTWI Senior Seminar[†]	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE: GEG 274 CPQL Intro. to GIS[†]	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE: GEG 330 CPVL Cartography[†]	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE: GEG 020 CD Cultural Geography[†]	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE: GEG 380 CTWI Senior Seminar[†]	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor. [†]Suggested placement of required thematic course.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, MAR, or PHY; or GEG (see note at right)				
COURSE:	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEL, MAR, MAT, NSE, PHY; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: ANT, GEG (see note at right), HIS, or POL				
COURSE:	3			
2. Elective: CRJ, PSY, SOC, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			

C. Humanities (6 credits): Choose one course in each subcategory.	RC	CR	GR	CAC
1. Elective: ENG, HUM, PAG*, or WRI				
COURSE:	3			
2. Elective: (ARA, CHI, FRE, GER, MLS, SPA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits) (103 or above)				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, MAR, PHY, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses. Contact the Modern Language Studies Dept. for clarification.

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Check sheet revised: 08/21/2015

B.A. GEOGRAPHY / ENVIRONMENTAL TRACK (Academic Plan: ULASGEOEN)

MAJOR PROGRAM: 42 S.H.		
1. Core Requirements: 18 S.H.	<u>SH</u>	<u>GR</u>
a. GEG 010 Elements of Physical Geog.		
b. GEG 020CD Elements of Cultural Geog.		
c. GEG 274CPQL Introduction to GIS		
d. GEG 330CPVL Cartography		
e. GEG 375 Research Methods in Geog.*		
f. GEG 380CTWI Sr. Seminar in Geog.‡		
‡Core courses a. through e. must be completed prior to enrolling in GEG 380, Senior Seminar.		

2. Category Requirements: 6 S.H.		
One course from 2 of the following categories:		
a. GEG (Cultural or Regional)		
b. GEG (Economic)		
c. GEG (Physical)		
d. GEG (Techniques)		

CULTURAL GEOGRAPHY:

GEG 210	Environmental Conservation
GEG 225CMCT	Spaces of Globalization
GEG 264	Medical Geography
GEG 335	Political Geography
GEG 338	Geography of Population

ECONOMIC GEOGRAPHY:

GEG 220	Economic Geography
GEG 223	Intro. to Transportation Geography
GEG 225CMCT	Spaces of Globalization
GEG 310WI	Urban Geography

GEOGRAPHIC TECHNIQUES:

GEG 230	Map Reading and Interpretation
GEG 232	Field Methods in Geography
GEG 274CPQL	Introduction to GIS Lecture / Lab
GEG 330CPVL	Cartography
GEG 333	Advanced GIS
GEG 341	Environmental Planning
GEG 343	Land Use Planning
GEG 347	Remote Sensing Lecture / Lab
GEG 375	Research Methods in Geography

MAJOR PROGRAM (continued)		
3. Environmental Track: 18 S.H.	<u>SH</u>	<u>GR</u>
Select 5 of the following and GEG 394:		
a. GEG 204/205 Meteorology/Lab		
b. GEG 210 Environmental Conservation		
c. GEG 232 Field Methods in Geography		
d. GEG 304/305 Weather Analysis Lecture/Lab		
e. GEG 322 Climatology		
f. GEG 323 Global Warming...		
g. GEG 324/325 Geomorphology/Lab		
h. GEG 341 Environmental Planning		
i. GEG 343 Land Use Planning		
j. GEG 347/348 Remote Sensing of the Env./Lab		
k. GEG 394 Internship in Geography (required)†		
†Requires 2.5 GPA or better in Geography.		

ELECTIVES or MINOR: 18 S.H.		
a.		
b.		
c.		
d.		
e.		
f.		

***Statistics Requirement Verification**

Statistics is a prerequisite to GEG 375. Geography students must take a statistics course: MAT 140 or 150, or POL/PSY/SOC200. MAT 105 is a prerequisite for MAT 140. PSY 011 and MAT 017 or higher (excluding 040 and 045) are prerequisites for PSY 200.

PHYSICAL GEOGRAPHY:

GEG 040	Descriptive Oceanography
GEG 204	Meteorology Lecture / Lab
GEG 212	Geography of Natural Hazards
GEG 304	Weather Analysis Lecture / Lab
GEG 322	Climatology
GEG 323	Global Warming & Science of Climate Change
GEG 324	Geomorphology Lecture / Lab

REGIONAL GEOGRAPHY:

GEG 101	World Regional Geography
GEG 110	Geography of United States and Canada
GEG 112	Geography of Pennsylvania
GEG 120	Geography of Sub-Saharan Africa
GEG 140	Geography of Europe



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • GEOGRAPHY / GENERAL TRACK

Academic Plan: **ULASGEOGE**

GENERAL EDUCATION

Effective Date: **08/24/2015 (Version: 2158)**

I. UNIVERSITY CORE (12 credits)		RC	CR	GR
A. Oral Communication: COM 10 or above				
COURSE:		3		
B. Written Communication: ENG 23, 24, or 25				
COURSE:		3		
C. Mathematics: MAT 17 or above				
COURSE:		3		
D. Wellness: Any 3-credit Wellness course				
COURSE:		3		

II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)					
COURSE:		3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)					
COURSE:		3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language					
COURSE:		3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS, MUP, MUS, or THE					
COURSE:		3			
E. Free Elective: Any course carrying university credit					
COURSE:		3			

III. COMPETENCIES ACROSS THE CURRICULUM		RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)					
COURSE:		3			WI
COURSE:		3			WI
COURSE:	GEG 380 CTWI Senior Seminar [†]	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)					
COURSE:	GEG 274 CPQL Intro. to GIS [†]	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)					
COURSE:	GEG 330 CPVL Cartography [†]	3			
D. Cultural Diversity (CD) (3 credits)					
COURSE:	GEG 020 CD Cultural Geography [†]	3			CD
E. Critical Thinking (CT) (3 credits)					
COURSE:	GEG 380 CTWI Senior Seminar [†]	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor. [†]Suggested placement of required thematic course.

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)		RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science [#] (6 credits): Choose one course in each subcategory.					
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, MAR, or PHY; or GEG (see note at right)					
COURSE:		3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEL, MAR, MAT, NSE, PHY; or GEG (see note at right)					
COURSE:		3			
B. Social Science (9 credits): Choose one course in each subcategory.					
1. Elective: ANT, GEG (see note at right), HIS, or POL					
COURSE:		3			
2. Elective: CRJ, PSY, SOC, or SWK					
COURSE:		3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK					
COURSE:		3			

		RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.					
1. Elective: ENG, HUM, PAG*, or WRI					
COURSE:		3			
2. Elective: (ARA, CHI, FRE, GER, MLS, SPA)* or PHI					
COURSE:		3			
D. Modern Languages (6 credits) (103 or above)					
COURSE:		3			
COURSE:		3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.					
COURSE:		3			
COURSE:		3			
COURSE:					
COURSE:					

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, MAR, PHY, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses. Contact the Modern Language Studies Dept. for clarification.

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Check sheet revised: 08/21/2015

B.A. GEOGRAPHY / GENERAL TRACK (Academic Plan: ULASGEOGE)

MAJOR PROGRAM: 42 S.H.		
1. Core Requirements: 18 S.H.	SH	GR
a. GEG 010 Elements of Physical Geog.		
b. GEG 020CD Elements of Cultural Geog.		
c. GEG 274CPQL Introduction to GIS		
d. GEG 330CPVL Cartography		
e. GEG 375 Research Methods in Geog.*		
f. GEG 380CTWI Sr. Seminar in Geog.‡		
‡Core courses a. through e. must be completed prior to enrolling in GEG 380CTWI, Senior Seminar.		

2. Category Requirements: 6 S.H.		
One course each from 2 of the following categories:		
a. GEG (Cultural or Regional)		
b. GEG (Economic)		
c. GEG (Physical)		

CULTURAL GEOGRAPHY:

GEG 210	Environmental Conservation
GEG 225CMCT	Spaces of Globalization
GEG 264	Medical Geography
GEG 335	Political Geography
GEG 338	Geography of Population

ECONOMIC GEOGRAPHY:

GEG 220	Economic Geography
GEG 223	Intro. to Transportation Geography
GEG 225CMCT	Spaces of Globalization
GEG 310WI	Urban Geography

GEOGRAPHIC TECHNIQUES:

GEG 230	Map Reading and Interpretation
GEG 232	Field Methods in Geography
GEG 274CPQL	Introduction to GIS Lecture / Lab
GEG 330CPVL	Cartography
GEG 333	Advanced GIS
GEG 341	Environmental Planning
GEG 343	Land Use Planning
GEG 347	Remote Sensing Lecture / Lab
GEG 375	Research Methods in Geography

MAJOR PROGRAM (continued)		
3. General Track: 18 S.H.	SH	GR
a. GEG		
b. GEG		
c. GEG		
d. GEG		
e. GEG		
f. GEG		

ELECTIVES or MINOR: 18 S.H.		
	SH	GR
a.		
b.		
c.		
d.		
e.		
f.		

*Statistics Requirement Verification

Statistics is a prerequisite to GEG 375. Geography students must take a statistics course: MAT 140 or 150, or POL/PSY/SOC200. MAT 105 is a prerequisite for MAT 140. PSY 011 and MAT 017 or higher (excluding 040 and 045) are prerequisites for PSY 200.

PHYSICAL GEOGRAPHY:

GEG 040	Descriptive Oceanography
GEG 204	Meteorology Lecture / Lab
GEG 212	Geography of Natural Hazards
GEG 304	Weather Analysis Lecture / Lab
GEG 322	Climatology
GEG 323	Global Warming & Science of Climate Change
GEG 324	Geomorphology Lecture / Lab

REGIONAL GEOGRAPHY:

GEG 101	World Regional Geography
GEG 110	Geography of United States and Canada
GEG 112	Geography of Pennsylvania
GEG 120	Geography of Sub-Saharan Africa
GEG 140	Geography of Europe



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • GEOGRAPHY / GLOBALIZATION TRACK

Academic Plan: **ULASGEOGL**

GENERAL EDUCATION

Effective Date: **08/24/2015 (Version: 2158)**

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit Wellness course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE: GEG 380 CTWI Senior Seminar [†]	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE: GEG 274 CPQL Intro. to GIS [†]	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE: GEG 330 CPVL Cartography [†]	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE: GEG 020 CD Cultural Geography [†]	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE: GEG 380 CTWI Senior Seminar [†]	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor. [†]Suggested placement of required thematic course.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science [#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, MAR, or PHY; or GEG (see note at right)				
COURSE:	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEL, MAR, MAT, NSE, PHY; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: ANT, GEG (see note at right), HIS, or POL				
COURSE:	3			
2. Elective: CRJ, PSY, SOC, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: ENG, HUM, PAG*, or WRI				
COURSE:	3			
2. Elective: (ARA, CHI, FRE, GER, MLS, SPA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits) (103 or above)				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, MAR, PHY, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses. Contact the Modern Language Studies Dept. for clarification.

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Check sheet revised: 08/21/2015

B.A. GEOGRAPHY / GLOBALIZATION TRACK (Academic Plan: ULASGEOGL)

MAJOR PROGRAM: 42 S.H.		
1. Core Requirements: 18 S.H.	SH	GR
a. GEG 010 Elements of Physical Geog.		
b. GEG 020CD Elements of Cultural Geog.		
c. GEG 274CPQL Introduction to GIS		
d. GEG 330CPVL Cartography		
e. GEG 375 Research Methods in Geog.*		
f. GEG 380CTWI Sr. Seminar in Geog.‡		
‡Core courses a. through e. must be completed prior to enrolling in GEG 380, Senior Seminar.		

ELECTIVES or MINOR: 18 S.H.		
	SH	GR
a.		
b.		
c.		
d.		
e.		
f.		

MAJOR PROGRAM (continued)		
2. Globalization Track: 24 S.H. (2 required courses + 4 from letters c – g, & 2 for h)	SH	GR
a. GEG 101 World Regional Geography (required)		
b. GEG 225CMCT Spaces of Globalization (required)		
c. GEG 220 Economic Geography		
d. GEG 310WI Urban Geography		
e. GEG 335 Political Geography		
f. GEG 338 Population Geography		
g. INT 111 International Environmental Issues		
h. GEG Two Regional Courses (other than GEG 110 and 112)		
i		
ii		

*Statistics Requirement Verification

Statistics is a prerequisite to GEG 375. Geography students must take a statistics course: MAT 140 or 150, or POL/PSY/SOC200. MAT 105 is a prerequisite for MAT 140. PSY 011 and MAT 017 or higher (excluding 040 and 045) are prerequisites for PSY 200.

CULTURAL GEOGRAPHY:

GEG 210	Environmental Conservation
GEG 225CMCT	Spaces of Globalization
GEG 264	Medical Geography
GEG 335	Political Geography
GEG 338	Geography of Population

ECONOMIC GEOGRAPHY:

GEG 220	Economic Geography
GEG 223	Intro. to Transportation Geography
GEG 225CMCT	Spaces of Globalization
GEG 310WI	Urban Geography

GEOGRAPHIC TECHNIQUES:

GEG 230	Map Reading and Interpretation
GEG 232	Field Methods in Geography
GEG 274CPQL	Introduction to GIS Lecture / Lab
GEG 330CPVL	Cartography
GEG 333	Advanced GIS
GEG 341	Environmental Planning
GEG 343	Land Use Planning
GEG 347	Remote Sensing Lecture / Lab
GEG 375	Research Methods in Geography

PHYSICAL GEOGRAPHY:

GEG 040	Descriptive Oceanography
GEG 204	Meteorology Lecture / Lab
GEG 212	Geography of Natural Hazards
GEG 304	Weather Analysis Lecture / Lab
GEG 322	Climatology
GEG 323	Global Warming & Science of Climate Change
GEG 324	Geomorphology Lecture / Lab

REGIONAL GEOGRAPHY:

GEG 101	World Regional Geography
GEG 110	Geography of United States and Canada
GEG 112	Geography of Pennsylvania
GEG 120	Geography of Sub-Saharan Africa
GEG 140	Geography of Europe



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • GEOGRAPHY / PLANNING TRACK

Academic Plan: **ULASGEOPL**

GENERAL EDUCATION

Effective Date: **08/24/2015 (Version: 2158)**

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit Wellness course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE: GEG 380 CTWI Senior Seminar [†]	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE: GEG 274 CPQL Intro. to GIS [†]	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE: GEG 330 CPVL Cartography [†]	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE: GEG 020 CD Cultural Geography [†]	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE: GEG 380 CTWI Senior Seminar [†]	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor. [†]Suggested placement of required thematic course.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, MAR, or PHY; or GEG (see note at right)				
COURSE:	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEL, MAR, MAT, NSE, PHY; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: ANT, GEG (see note at right), HIS, or POL				
COURSE:	3			
2. Elective: CRJ, PSY, SOC, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: ENG, HUM, PAG*, or WRI				
COURSE:	3			
2. Elective: (ARA, CHI, FRE, GER, MLS, SPA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits) (103 or above)				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, MAR, PHY, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses. Contact the Modern Language Studies Dept. for clarification.

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Check sheet revised: 08/21/2015

B.A. GEOGRAPHY / PLANNING TRACK (Academic Plan: ULASGEOPL)

MAJOR PROGRAM: 42 S.H.		
1. Core Requirements: 18 S.H.	SH	GR
a. GEG 010 Elements of Physical Geog.		
b. GEG 020CD Elements of Cultural Geog.		
c. GEG 274CPQL Introduction to GIS		
d. GEG 330CPVL Cartography		
e. GEG 375 Research Methods in Geog.*		
f. GEG 380CTWI Sr. Seminar in Geog.‡		
‡Core courses a. through e. must be completed prior to enrolling in GEG 380, Senior Seminar.		

2. Category Requirements: 6 S.H.		
One course from 2 categories:		
a. GEG (Cultural)		
b. GEG (Physical)		
c. GEG (Regional)		

CULTURAL GEOGRAPHY:

GEG 210	Environmental Conservation
GEG 225CMCT	Spaces of Globalization
GEG 264	Medical Geography
GEG 335	Political Geography
GEG 338	Geography of Population

ECONOMIC GEOGRAPHY:

GEG 220	Economic Geography
GEG 223	Intro. to Transportation Geography
GEG 225CMCT	Spaces of Globalization
GEG 310WI	Urban Geography

GEOGRAPHIC TECHNIQUES:

GEG 230	Map Reading and Interpretation
GEG 232	Field Methods in Geography
GEG 274CPQL	Introduction to GIS Lecture / Lab
GEG 330CPVL	Cartography
GEG 333	Advanced GIS
GEG 341	Environmental Planning
GEG 343	Land Use Planning
GEG 347	Remote Sensing Lecture / Lab
GEG 375	Research Methods in Geography

MAJOR PROGRAM (continued)		
3. Planning Track: 18 S.H. Select 2 in addition to the required courses:	SH	GR
a. GEG 212 Geography of Natural Hazards		
b. GEG 220 Economic Geography		
c. GEG 335 Political Geography		
d. INT 111 International Environmental Issues		
e. GEG 310WI Urban Geography (required)		
f. GEG 341 Environmental Planning (required)		
g. GEG 343 Land Use Planning (required)		
h. GEG 394 Internship in Geography (required)†		
†Requires 2.5 GPA or better in Geography.		

ELECTIVES or MINOR: 18 S.H. (Optional Minor in Poli. Sci., or Pub. Admin. shown)	SH	GR
a. POL 010 American Government		
b. POL 050 State & Local Government		
c. POL 115 Public Administration		
d. POL 135 Urban Politics		
e. POL 225 Planning and Decision-Making Theory		
f. POL 314 Administration of U.S. Env. Law		
g. POL 346 Public Budgeting & Fiscal Management		
h. POL 425 Public Policy Making		
Students are strongly encouraged to register for a Poli. Sci. or Pub. Admin. minor. Bolded courses are required of either minor.		

*Statistics Requirement Verification

Statistics is a prerequisite to GEG 375. Geography students must take a statistics course: MAT 140 or 150, or POL/PSY/SOC200. MAT 105 is a prerequisite for MAT 140. PSY 011 and MAT 017 or higher (excluding 040 and 045) are prerequisites for PSY 200.

PHYSICAL GEOGRAPHY:

GEG 040	Descriptive Oceanography
GEG 204	Meteorology Lecture / Lab
GEG 212	Geography of Natural Hazards
GEG 304	Weather Analysis Lecture / Lab
GEG 322	Climatology
GEG 323	Global Warming & Science of Climate Change
GEG 324	Geomorphology Lecture / Lab

REGIONAL GEOGRAPHY:

GEG 101	World Regional Geography
GEG 110	Geography of United States and Canada
GEG 112	Geography of Pennsylvania
GEG 120	Geography of Sub-Saharan Africa
GEG 140	Geography of Europe



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • GERMAN STUDIES COMMUNICATION & CULTURE

Program Code: **ULASGERCO**

GENERAL EDUCATION

Effective Date: **08/29/2011**

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: HEA 110 + activity; or 3-credit Wellness course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WST, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

BA GERMAN STUDIES: COMMUNICATION AND CULTURE TRACK

Program #	23702
Version #	20123
Program Effective:	Fall 2011
Check Sheet Reviewed	2/11

B. MAJOR PROGRAM: 39 Semester Hours.		
1. Pre-Major Courses (0 S.H.)	Gr.	S.H.
GER 011 Elementary German I		
GER 012 Elementary German II		
2. Core Courses: 18 s.h.	Gr.	S.H.
GER 103 Intermediate German III		
GER 104 Intermediate German IV		
GER 211 German Composition & Conv I		
GER 212 German Composition & Conv II		
GER 340 German Cult & Civil		
GER 380 Senior Seminar		
3. Electives: 21 S.H.		
GER 213 Business German		
GER 220 Applied Linguistics German		
GER 230 The German Fairy Tale		
GER 301 Survey German Literature I		
GER 302 Survey German Literature II		
GER 304 German Culture through Film		
GER 311 German Lit/18 th Century		
GER 312 German Lit/19 th Century		
GER 313 German Lit/20 th Century		
GER 320 German Short Story		
GER 325 Advanced Syntax & Stylistics I		
GER 326 Advanced Syntax & Stylistics II		
GER 355 Reading & Perform. German Drama		
GER 360 Study Abroad Experience		
GER 370 Selected Topics in German		
GER 390 International Internship in German		
GER 495 Independent Study		
GER 410 Phonetics of the German Lang.		
GER 420 Professional Translation Skills in German		
GER 470 Selected Topics in German		

D. A&S ELECTIVES: 9 Sem Hrs. Any of the disciplines under Liberal Arts & Sciences.		
	Gr.	S.H.
1.		
2.		
3.		
Total Semester Hours		

C. CONCOMITANT COURSES: 12 Semester hours.		
German majors must complete 12 S.H. of concomitant coursework in the Liberal Arts and Sciences at the 100 level of above or <u>any</u> level language course not in German.. Courses selected should relate to the major program and must have the approval of the advisor.		
	Gr.	S.H.
1.		
2.		
3.		
4.		



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • GERMAN INTERDISCIPLINARY MAJOR

Program Code: **ULASGERIN**

GENERAL EDUCATION

Effective Date: **08/29/2011**

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: HEA 110 + activity; or 3-credit Wellness course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WST, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

BACHELOR OF ARTS: GERMAN INTERDISCIPLINARY MAJOR

Program #	23703
Version #	20123
Program Effective:	Fall 2011
Check Sheet Reviewed	April 2011

B. MAJOR PROGRAM: 39 Semester Hours.		
1. Pre-Major Courses (0 S.H.)	Gr.	S.H.
GER 011 Elementary German I		
GER 012 Elementary German II		
2. Core Courses: 18 s.h	Gr.	S.H.
GER 103 Intermediate German III		
GER 104 Intermediate German IV		
GER 211 German Composition & Conv. I		
GER 212 German Composition & Conv. II		
GER 340 German Culture & Civilization		
GER 380 Senior Seminar		

C. CONCOMITANT COURSES: 12 Semester hours.		
German majors must complete 12 S.H. of concomitant course-work in the Liberal Arts and Sciences at the 100 level of above or <u>any</u> level language course not in German. Courses selected should relate to the major program and must have the approval of the advisor.		
	Gr.	S.H.
1.		
2.		
3.		
4.		

ADVANCED COURSES:	Gr.	S.H.
3. Interdisciplinary Track: 21 S.H.+		
No more than 3 courses in any one department prefix.		
ANT 135 PA German Cultural Traditions		
ARH 306 Art of Northern Europe: 1350-1580		
ARH 338 Modernism		
ECO 270 Comparative Economic Systems		
GEG 140 Geography of Europe		
Any GER course at the 200 level or above with the approval of advisor.		
GER		
GER		
GER		
HIS 112 19 th Century Europe		
HIS 227 History of Holocaust		
HIS 235 Europe of the World Wars		
HIS 462 Germany in 20 th Century		
POL 305 Western European Government		
PHI 136 Kant to Hegel		
INT 101 International Communication		
INT 111 International Environmental Issues		
INT 210 Selected Topics*		
INT 310 European Union Simulation		
MUS 212 Music from 1825 to the Present		
Total Semester Hours		

D. A&S ELECTIVES: 9 Sem Hrs. Any of the disciplines under Liberal Arts & Sciences.	
	Gr.
1.	
2.	
3.	
Total Semester Hours	



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • PA GERMAN STUDIES IN AMERICAN TRACK

Program Code: ULASGERPA

GENERAL EDUCATION

Effective Date: 08/29/2011

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: HEA 110 + activity; or 3-credit Wellness course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WST, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) 201 Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) 201 Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG ⁺ , ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA) [*] or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

^{*} Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

BA GERMAN STUDIES:

Pennsylvania German Culture in America Track

Program #	23704
Version #	20123
Program Effective:	Fall 2011
Check Sheet Reviewed	2/11

B. MAJOR PROGRAM: 39 Semester Hours.		
1. Pre-Major Courses (0 S.H.)	Gr.	S.H.
GER 011 Elementary German I		3
GER 012 Elementary German II		3
2. Core Courses: 18 S.H.	Gr.	S.H.
GER 103 Intermediate German III		
GER 104 Intermediate German IV		
GER 211 German Composition & Conv. I		
GER 212 German Composition & Conv. II		
GER 340 German Cult & Civil		
GER 380 Senior Seminar		
3. Required Courses: 9 S.H.		
PAG 010 Intro to Pennsylvania German Studies		
PAG 011 Intro to the PA German Lang. I		
PAG 390 Internship in PA Ger. Studies		
4. Electives – 12 S.H.		
ANT 135 PA German Cultural Traditions		
ANT 190 Hum Diversitv & Adaptations in PA		
ANT 320 Archeological Field Methods		
ARH 306 Art of Northern Europe		
ARH 339 Ind. Studies in the History of Art		
ARH 385 Selected Topics in the History of Art		
ART 315 Vernacular Architecture		
ART 317 Historic Preservation Studies		
CFT 377 Independent Study in Craft		
CFT 378 Independent Study in Craft		
ENG 124 Cur. Themes in Amer. Lit: Folklore		
ENG 234 Ethnic American Literature		
GEG 112 Geography of Pennsylvania		
GER 301 Survey of German Literature I		
GER 302 Survey of German Literature II		
GER 230 The German Fairy Tale		
GER 360 Study Abroad Experience*		
GER 370 Selected Topics		
GER 390 International Internship in German**		
GER 495 Independent Study		
HIS 120 History of Pennsylvania		
HIS 257 Public History		
HIS 238 Europe the Reformation		
PAG 012 Intro to the PA German Lang II		
PAG 251 PA German Lit in Translation		
PAG 301 PA German Literature		
PAG 360 Study Abroad		
PAG 370 Readings in PA German Life		
PAG/ARC 311 The PA German Landscape		

C. CONCOMITANT COURSES: 12 Semester hours.		
German majors must complete 12 S.H. of concomitant course work in the Liberal Arts and Sciences at the 100 level of above or <u>any</u> level language course not in German. Courses selected should relate to the major program and must have the approval of the advisor.		
	Gr.	S.H.
1.		
2.		
3.		
4.		

D. A&S ELECTIVES: 9 Sem Hrs. Any of the disciplines under Liberal Arts & Sciences.		
	Gr.	S.H.
1.		
2.		
3.		
Total Semester Hours		

- * Repeatable up to 3 credit hours
- ** Repeatable up to 6 credit hours



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • HISTORY

Program Code: **ULASHIS**

Version Number: 2118-Fall 2011

Effective Date: **August 29, 2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

C. Humanities (6 credits): Choose one course in each subcategory.	RC	CR	GR	CAC
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • HISTORY

Program Code: ULASHIS

Version Number: 2158-Fall 2015

Effective Date: August 24, 2015

MAJOR PROGRAM

B. Major Program: Credit Requirements 42 S.H.

- I. Introductory Courses (12 S.H.)**
 - II. Research Methods: HIS 378 (3 S.H.)**
 - III. Depth of Knowledge: 8 courses, at least 5 at 200 level or above, excluding HIS 378 & 380 (24 S.H.)**
 Geographic Distribution: Two courses for each region:
 (A) United States
 (B) Europe
 (C) Africa, Asia, Latin America, and Mid-East.
 - IV. Senior Seminar: HIS 380 (3 S.H.)**
- Notes:**
 Internal transfers must have a minimum QPA of 2.0.
 Maximum of 45 History credits may count toward graduation.

Course Name	GR	S.H.
I. Introductory: (HIS 014, 015, 025, 026)		12.0
1)		
2)		
3)		
4)		
II. Research Methods (HIS 378)		3.0
5)		
III. Depth: Courses numbered above 100		24.0
6)		
7)		
8)		
9)		
10)		
11)		
12)		
13)		
IV. HIS 380 Senior Seminar		3.0
14)		
Grand Total Major Program		42.0

C. Elective Courses 18 S.H.

Electives Courses may be selected from any department or program. 12. S.H. must be at the 100-level or above.

Course Name	GR	S.H.
1)		
2)		
3)		
4)		
5)		
6)		

Geographic Distributions

Course Name	GR	S.H.
A. United States		
1.		#
2.		#
B. Europe		
1.		#
2.		#
C. Asia/Middle East/Africa/Latin America		
1.		#
2.		#

120 credits are required to graduate



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • HISTORY W/ PARALEGAL STUDIES

Program Number: 24005

Version Number: 20123

Effective Date: Fall 2013

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)		RC	CR	GR	
A. Oral Communication: COM 10 or above					
COURSE:		3			
B. Written Communication: ENG 23, 24, or 25					
COURSE:		3			
C. Mathematics: MAT 17 or above					
COURSE:		3			
D. Wellness: HEA 110 + activity; or 3-credit Wellness course					
COURSE:		3			
II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, or PHY, or certain GEG courses (see note at right)					
COURSE:		3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, or SWK, or certain GEG courses (see note at right)					
COURSE:		3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WST, or Modern Language					
COURSE:		3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE					
COURSE:		3			
E. Free Elective: Any course carrying university credit					
COURSE:		3			

III. COMPETENCIES ACROSS THE CURRICULUM		RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)					
COURSE:		3			WI
COURSE:		3			WI
COURSE:		3			WI
B. Quantitative Literacy (QL) (3 credits) ATI Computer-Intensive (CP) (3 credits)					
COURSE:		3			
C. Visual Literacy (VL) (3 credits) ATI Communication-Intensive (CM) (3 credits)					
COURSE:		3			
D. Cultural Diversity (CD) (3 credits)					
COURSE:		3			CD
E. Critical Thinking (CT) (3 credits)					
COURSE:		3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)		RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science* (6 credits): Choose one course in each subcategory.					
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)					
COURSE:		3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)					
COURSE:		3			
B. Social Science (9 credits): Choose one course in each subcategory.					
1. Elective: HIS, ANT, GEG (see note at right), or POL					
COURSE:		3			
2. Elective: PSY, SOC, CRJ, or SWK					
COURSE:		3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK					
COURSE:		3			

		RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.					
1. Elective: PAG*, ENG, WRI, or HUM					
COURSE:		3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI					
COURSE:		3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher					
COURSE:		3			
COURSE:		3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.					
COURSE:		3			
COURSE:	PLG**	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

**Any 3 credit course for PLG studies program may also be counted on this line.

BACHELOR OF ARTS: HISTORY w/PARALEGAL STUDIES

Program #24005-- Version 20123

I. Major Program: Credit Requirements: 42 S.H. *			
A. Survey Courses—12 S.H.	Gr.	S.H.	
HIS 014-History of Civilization A			
HIS 015-History of Civilization B			
HIS 025-History of the U. S.			
HIS 026-History of the U. S.			
B. Electives—24 S.H.			
1. History of the United States—6 S.H.			
2. History of Europe—6 S.H.			
3. History of Asia/Middle East/Africa/ Latin America—6 S.H.			
4. Other History Electives—6 S.H.			
C. HIS 378 : Junior Seminar in Historical Methodology—3 S.H			
D. HIS 380: Senior Seminar—3 S.H.			
Grand Total Major Program **			

II. Paralegal Studies: 21 S.H. * * *	Gr.	S.H.
PLG 120—Introduction to Paralegal Studies		
PLG 150—Torts and Personal Injury		
PLG-200—Civil Litigation & Procedure		
PLG 215—Law Office Management		
PLG-220—Contract Law and Business Organizations		
PLG 245—Legal Research & Writing		
Select three credits from the following courses:		
PLG 125—Workers' Comp. Practice (3)*		3
PLG 130—Social Security Disability Practice (2)*		
PLG 135—Interviewing for Paralegals (1)*		
PLG-230—Estates and Trusts (3)		
PLG 235—Family Law (3)		
PLG 240—Bankruptcy Law (3)		
PLG 250—Legal Internship (3)		
PLG 255—Legal Writing (3)		
*Non-(3) credit PLG courses must be taken together in the same semester to total 3 credits		
Grand Total Paralegal Studies		

Notes

* At least six History courses besides the Senior Seminar must be at the 200 or above level.

** A maximum of 45 s.h. in History may be counted toward graduation.

*** All paralegal studies courses are taken through Lehigh-Carbon Community College as part of a cooperative program of study. Paralegal (PLG) prefix courses may only be transferred to KU by students who complete this special KU-LCCC program.

123 credits are required to graduate.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • PHILOSOPHY

Program Code: ULASPHI

Version Number: 2118-Fall 2011

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) <u>011</u> Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) <u>011</u> Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

B.A. Philosophy

Department of Philosophy

Program Code	ULASPHI
Version #	2118
Program Effective	Fall 2011
Check Sheet Reviewed	2/2011

B. MAJOR PROGRAM: 33 SH	GR	SH
1. Required Courses: 6 SH		
PHI 140 Symbolic Logic		
PHI 380 Sr. Seminar in Philosophy		
2. Restricted Electives: 9 SH		
Select three of the following four courses:		
PHI 105 Medieval Philosophy		
PHI 116 Ancient Philosophy		
PHI 121 Modern Philosophy		
PHI 136 Kant to Hegel		
3. Open Electives: 18 SH		
Two courses (6 SH) must be at the 100 level or above. Three courses (9 SH) must be at the 300 level or above.		
PHI 015 Critical Thinking		
PHI 020 Introduction to Logic		
PHI 030 Introduction to Philosophy		
PHI 040 Introduction to Ethics		
PHI 060 Intro. to Religious Studies		
PHI 080 Business Ethics		
PHI 105 Medieval Philosophy		
PHI 110 Comp. Study of Religion		
PHI 113 Environmental Philosophy		
PHI 116 Ancient Philosophy		
PHI 121 Modern Philosophy		
PHI 125 Aspects of Death and Dying		
PHI 130 Asian Philosophy		
PHI 136 Kant to Hegel		
PHI 150 History of Scientific Ideas		
PHI 160 Philosophy of Sport		
PHI 170 Philosophy of Religion		
PHI 202 Honors: Two Philosophers		
PHI 210 Medical Ethics		
PHI 215 Persons, Life, and Death		
PHI 225 Metalogic		
PHI 230 Philosophy of History		
PHI 235 Topics in Moral Theory		
PHI 240 Philosophy of Social Sciences		
PHI 241 Philosophy of Mind		
PHI 245 Human Love and Sexual Morality		
PHI 249 Interpretations of the Quran		
PHI 260 Philosophy of Art		
PHI 265 Social and Political Philosophy		
PHI 270 Interpret. of Religious Texts		
PHI 280 American Philosophy		
PHI 310 Theory of Knowledge		
PHI 330 Philosophy of Science		
PHI 345 Metaphysics		
PHI 350-354 Sel. Topics in Philosophy		
PHI 355 Existentialism & Phenomenology		
PHI 375 Philosophy of Language		

PHI 379 Independent Study		
PHI 470 Selected Topics in Philosophy		
C. CONCOMITANT COURSES: 15 SH	GR	SH
Selected courses from the College of Liberal Arts & Sciences, with the approval of the faculty advisor.		

D. A&S ELECTIVES: 12 SH	GR	SH
Select Courses at the 100 level or above from the College of Liberal Arts and Sciences. Electives may include courses toward a minor, with the approval of the faculty advisor.		

NOTE: Philosophy courses taken under General Education apply toward the 33 SH minimum in the major program, but these SH should not be counted twice in computing the Total SH credits for the degree. (No more than 45 SH in Philosophy may apply toward the 120 SH required for graduation.)



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • PHILOSOPHY/RELIGIOUS STUDIES

Program Code: ULASPHIR

Version Number: 2118-Fall 2011

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) QT Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) VT Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science* (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

* Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

B.A. Philosophy/Religious Studies

Department of Philosophy

Program # ULASPHIR
 Version # 2152
 Program Effective Fall 2015
 Check Sheet Reviewed 2/15

B. MAJOR PROGRAM : 33 SH		GR	SH
1. Required Courses: 12 SH			
PHI 60CDCT	Introduction to Religious Studies		
PHI 140CTQL	Symbolic Logic		
PHI 170WICT	Philosophy of Religion		
PHI 381CTWI	Sr Sem in Phi/Religious Studies		
2. Restricted Electives I: 6 SH			
Select two of the following four courses:			
PHI 105CDWI	Medieval Philosophy		
PHI 116CTWI	Ancient Philosophy		
PHI 121CTWI	Modern Philosophy		
PHI 136WI	Kant to Hegel		
3. Restricted electives II: 3 SH			
Select one of the following four courses:			
PHI 110WICD	Comp. Study of Religion		
PHI 130CDWI	Asian Philosophy		
PHI 249CDWI	Interpretations of the Quran		
PHI 270CDWI	Interpretation of Religious Texts		
4. Open Electives: 12 SH			
Two courses (6 SH) must be at the 300+ level			
PHI 15CT	Critical Thinking		
PHI 20CT	Introduction to Logic		
PHI 30CT	Introduction to Philosophy		
PHI 40CDCT	Introduction to Ethics		
PHI 80CDCT	Business Ethics		
PHI 105CDWI	Medieval Philosophy		
PHI 110WICD	Comp. Study of Religion		
PHI 113WI	Environmental Philosophy		
PHI 116CTWI	Ancient Philosophy		
PHI 121CTWI	Modern Philosophy		
PHI 125CDWI	Aspects of Death and Dying		
PHI 130CDWI	Asian Philosophy		
PHI 136WI	Kant to Hegel		
PHI 150CDWI	History of Scientific Ideas		
PHI 160CTWI	Philosophy of Sport		
PHI 202CTWI	Honors: Two Philosophers		
PHI 210WICT	Medical Ethics		
PHI 215CDWI	Persons, Life, and Death		
PHI 225CT	Metalogic		
PHI 230CTWJ	Philosophy of History		
PHI 235CDWI	Topics in Moral Theory		
PHI 240CDWI	Philosophy of Social Sciences		
PHI 241CTWI	Philosophy of Mind		
PHI 245CDWI	Human Love/Sexual Morality		
PHI 249CDWI	Interpretations of the Quran		
PHI 260CTWI	Philosophy of Art		
PHI 265WICD	Social and Political Philosophy		
PHI 270CDWI	Interpretation of Religious Texts		
PHI 280CTWI	American Philosophy		
PHI 310CTWI	Theory of Knowledge		
PHI 330CTWI	Philosophy of Science		
PHI 345WICT	Metaphysics		

PHI 350-354	Selected Topics in Philosophy		
PHI 355CTWI	Existentialism & Phenomenology		
PHI 375CTWI	Philosophy of Language		
PHI 379	Independent Study		
PHI 470	Selected Topics in Philosophy		
C. CONCOMITANT COURSES: 9 SH			
From CLAS with approval of faculty advisor.			
Include at least two of the following courses:			
ANT 165CD	The Muslim Middle East		
ANT/SOC 212CDWI	Shamans, Witches, and Magic/Sociology of Religion		
ANT/SOC 213CDWI	World Religions		
ANT 285	Millenarian Movements		
ARH 302	Early Christian & Byzantine Art		
ARH 305	Medieval Art		
ARH 311	English Cathedrals		
ARH 319	Arts of the Islamic World		
ENG 111	Bible as Story and Lit. Source		
ENG 251	Old Testament Literature		
ENG 252	New Testament Literature		
HIS 225	History of the Jewish People in Modern Times		
HIS 227	History of the Holocaust		
HIS 228	History of Religion in America		
HIS 238WI	Europe During the Reformation: 1500- 1600 CE		
HIS 325WI	The Middle Ages		
HIS 328WI	Europe During the Renaissance: 1300-1550 CE		
SOC/ ANT 246CDCT	Globalization and Development		
SWK 130CDCT	Poverty and Social Welfare		
*ARH 302, ARH 305, and ARH 311 are College of Visual and Performing Arts and count toward concomitant requirement.			
D. ELECTIVES : 18 SH		GH	SH
May include courses toward a minor, with advisor approval.			

NOTE: Philosophy courses taken under General Education apply toward the 33 SH minimum in the major program, but should not be counted twice in computing total SH credits for the degree. (No more than 45 SH in Philosophy may apply toward the 120 SH required for graduation.)

Graduation Clearance:	
General Education	60 SH
Major Program	33 SH
Concomitant Courses	9 SH
Free Electives	18 SH
Minimum Total for Graduation:	120 SH



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • POLITICAL SCIENCE

Program Code: ULASPOL

Version Number: 2128—Fall 2012

Effective Date: August 27, 2012

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) BI Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) BI Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in I.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science* (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

B.A. Political Science

Program Code: ULASPOL effective Fall 2012
General Education effective Fall 2011

Major Program

1. Required Courses (21 credit hours)	GR	CR
POL 10 American Government		3
POL 20 International Relations		3
POL 30 Introduction to Comparative Politics		3
POL 40 Introduction to Political Theory		3
POL 101 Soc. Sci. Res. Design & Writing		3
POL 201 Empirical Political Analysis		3
POL 380 Senior Seminar in Political Science		3
2. Restricted Electives (12 credit hours)		
Select one of the following courses in American Politics and Government (3 credit hours)		
POL 135 Urban Politics		
POL 211 Public Opinion & Propaganda		
POL 213 Judicial Process		
POL 214 American Political Parties		
POL 311 Constitutional Law I		
POL 312 Constitutional Law II		
POL 313 American Presidency		
POL 314 Adm. of U.S. Environmental Law		
POL 316 Law and Sex Based Discrimination		
POL 325 American Legislative Process		
Select one of the following courses in International Relations (3 credit hours)		
POL 120 Global Issues		
POL 222 International Pol. Economy		
POL 224 Politics of Development		
POL 227 International Conflict & Security		
POL 228 American Foreign Policy		
POL 321 International Law & Organization		
POL 322 International Relations Theory		
Select one of the following courses in Comparative Politics (3 credit hours)		
POL 132 Western European Government		
POL 133 Politics of Cuba and the Caribbean		
POL 134 Politics of the Middle East		
POL 224 Politics of Development		
POL 231 Social Movements and Revolutions		
POL 332 Politics of Latin America		

Select one of the following courses in Political Theory (3 credit hours)		
POL 140 Law and Society		
POL 141 Modern Western Political Thought		
POL 242 Democratic Theory		
POL 341 American Political Thought		
POL 441 Ethics and Leadership		
3. Open Electives (9 credit hours)		
Select any POL course from those not taken as a Required Course or as a Restricted Elective		

4. Concomitant Courses (6 credit hours)		
HIS (at 100 level or above)		3
ECO 011 Macroeconomics		3

5. A&S Electives (12 credit hours)		
Select courses in Arts & Sciences disciplines except POL courses		

Notes:

- ♦ Departmental permission is required to take POL 370 and/or POL 390. POL 370 may be taken twice for a total of 6 credit hours.
- ♦ Selected Topics courses (POL 371) may be taken more than once as long as the same topic is not repeated.
- ♦ Graduate courses at the 400 level are open to Juniors & Seniors who have a 2.9 GPA and have permission of the department.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • POLITICAL SCIENCE/PARALEGAL STUDIES

Program Code ULASPOLPL

Version Number: Fall 2011

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science* (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEG (see note at right), GEL, MAR, or PHY				
COURSE:	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEG (see note at right), GEL, MAR, MAT, NSE, or PHY				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: ANT, GEG (see note at right), HIS, or POL				
COURSE:	3			
2. Elective: CRJ, PSY, SOC, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: ENG, HUM, PAG*, or WRI				
COURSE:	3			
2. Elective: (ARA, CHI, FRE, GER, MLS, or SPA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the Intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

* Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

B.A. Political Science with Paralegal Studies
Program code: ULASPOLPL eff. Fall 2012
General Education (effective Fall 2011)

Major Program: 39 credits

1. Required Courses (21 credit hours)	GR	CR
POL 10 American Government		3
POL 20 International Relations		3
POL 30 Introduction to Comparative Politics		3
POL 40 Introduction to Political Theory		3
POL 101 Soc. Sci. Res. Design & Writing		3
POL 201 Empirical Political Analysis		3
POL 380 Senior Seminar in Political Science		3
2. Restricted Electives (12 Credit Hours)		
Select one of the following courses in American Politics and Government (3 credit hours)		
POL 135 Urban Politics		
POL 211 Public Opinion & Propaganda		
POL 213 Judicial Process		
POL 214 American Political Parties		
POL 311 Constitutional Law I		
POL 312 Constitutional Law II		
POL 313 American Presidency		
POL 314 Adm. of U.S. Environmental Law		
POL 316 Law and Sex Based Discrimination		
POL 325 American Legislative Process		
Select one of the following courses in International Relations (3 credit hours)		
POL 120 Global Issues		
POL 222 International Pol. Economy		
POL 224 Politics of Development		
POL 227 International Conflict & Security		
POL 228 American Foreign Policy		
POL 321 International Law & Organization		
POL 322 International Relations Theory		
Select one of the following courses in Comparative Politics (3 credit hours)		
POL 132 Western European Government		
POL 133 Politics of Cuba and the Caribbean		
POL 134 Politics of the Middle East		
POL 224 Politics of Development		
POL 231 Social Movements and Revolutions		
POL 332 Politics of Latin America		

Select one of the following courses in Political Theory (3 credit hours)		
POL 140 Law and Society		
POL 141 Modern Western Political Thought		
POL 242 Democratic Theory		
POL 341 American Political Thought		
POL 441 Ethics and Leadership		

3. Open Electives (6 credit hours)
Select any POL course from those not taken as a Required Course or as a Restricted Elective

B. Paralegal Studies: 21 credit hours	GR	CR.
PLG 120 Intro. to Paralegal Studies		3
PLG 150 Torts and Personal Injury		3
PLG 200 Civil Litigation and Procedure		3
PLG 215 Law Office Management		3
PLG 220 Contract Law & Bus. Org.		3
PLG 245 Legal Research & Writing		3
Select three credits from the following courses:		
PLG 125 Workers Comp. Practice (3)		
PLG 130 Social Security Disability Prac. (2)		
PLG 135 Interviewing for Paralegals (1)		
PLG 228 Immigration Law for Paralegals (3)		3
PLG 230 Estates & Trusts (3)		
PLG 235 Family Law (3)		
PLG 240 Bankruptcy Law (3)		
PLG 250 Legal Internship (3)		
PLG 255 Legal Writing (3)		

Note: Non-three (3) credit PLG courses must be taken together in the same semester to total 3 credits.

All Paralegal Studies courses are taken through Lehigh-Carbon Community College as part of a cooperative program of study.

Department permission is required to take POL 370 and/or POL 390. POL 370 may be taken twice for a total of 6 credit hours.

Selected Topics course (POL 371) may be taken more than once as long as the same topic is not repeated.

Graduate courses at the 400 level are open to Juniors & Seniors who have a 2.9 GPA and have permission of the department.



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • SOCIOLOGY

ULASSOC

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
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B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) CM				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) CM				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

BA Sociology

Department of Anthropology & Sociology

Program:
Program Effective:
Review Date

ULASSOC
Jan. 27, 2014
March 5, 2013

B. GENERAL SOCIOLOGY TRACK: 42 SH		GR	SH
1. Foundation Requirements: 9 SH			
SOC 010 Principles of Sociology			3
SOC 200 Statistics/ Soc. & Beh. Science or			3
SOC 201 Quantitative Analysis in Sociology			
SOC 260 Social Stratification			3

2. Select TWO Courses from the following: 6 SH			
SOC 120 Marriage and the Family			3
SOC 122 Intimate Relationships			3
SOC 217 LGBTQ Studies *			3
SOC 224 Immigration & Assimilation *			3
ANT/SOC 232 Marriage In Cross Cult. Perspectives			3
SOC 235 Sociology of Gender *			3
SOC 207 Families & Social Class			3
SOC 208 Childhood & Adolescence/Amer. Soc.			3
SOC 275 Social Found. of Human Behavior *			3
SOC 290 Soc. Geront. & Soc. Welf			3
SOC 370 Selected Topics			3

3. Select TWO Courses from the following: 6 SH			
SOC 217 LGBTQ Studies *			3
SOC 222 Rural Poverty			3
SOC 224 Immigration & Assimilation *			3
ANT/SOC 213 World Religions			3
SOC 230 Urban Sociology			3
SOC 235 Sociology of Gender *			3
ANT/SOC 241 Race & Ethnicity			3
ANT/SOC 246 Globalization & Development			3
SOC 240 Population Problems			3
ANT 262 Hate Across Cultures *			3
SOC 275 Social Found. Of Human Behavior *			3
SOC 280 Social Movements			3
SOC 371 Selected Topics			3

4. Select TWO Courses from the following: 6 SH			
SOC 128 Domestic Abuse			3
SOC 150 Law & Society			3
SOC 220 Juvenile Delinquency			3
SOC 245 Sociology of Deviance			3
SOC 247 Environmental Sociology			3
SOC 250 Criminology			3
ANT 262 Hate Across Cultures *			3
SOC 270 Sociology of Organizations			3
SOC 271 White Collar Crime			3
SOC 372 Selected Topics			3

5. Advanced Requirements: 9 SH			
SOC 310 Foundation of Social Theory			3
SOC 350 Methods of Social Research			3
SOC 380 Senior Seminar in Sociology			3

6. Sociology Electives: 6 SH		
Any 6 credits of SOC courses offered at KU or transferred from another institution, and not previously used for above requirements.		

C. CONCOMITANT COURSES: 18 SH		GR	SH
Concomitant courses may be used to minor in another field, concentrate in one or two different academic fields according to the student's career interests, or pursue some other general plan of study. All the above options, must be worked out in consultation with the advisor. (Please note that at least 6 S.H. must be at the 100 level or above any discipline under Liberal Arts & Sciences.)			

* Course to be used only once to fulfill major requirements.

A **minimum QPA of 2.00 is required to declare this major.

Degree Requirements		
1. Semester Hours:		SH
a. General Education	60 SH	
b. Major Program	42 SH	
c. Concomitant Courses	18 SH	
Total Semester Hours: 120 minimum		
2. QPA: Overall (2.00 minimum)	Y	N
Major (2.00 minimum)	Y	N
3. Passed Comprehensive Exam	Y	N
4. Cleared for Graduation (term/ yr.):		



COLLEGE OF LIBERAL ARTS & SCIENCES • BA SOCIOLOGY/ DIVERSITY & INEQUALITY

ULASSOCDI

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

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* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

BA Sociology

Department of Anthropology & Sociology

Program:

ULASSOC DI

Program Effective:

Jan. 27, 2014

Review Date

Mar. 5, 2013

A. DIVERSITY & INEQUALITY TRACK: 42 SH

	GR	SH
1. Foundation Requirements: 9 SH		
SOC 010 Principles of Sociology		3
SOC 200 Statistics/ Soc. & Beh. Science or		3
SOC 201 Quantitative Analysis in Sociology		
SOC 260 Social Stratification		3

2. Select FOUR Courses from the following: 12 SH

SOC 217 LGBTQ Studies *		3
SOC 222 Rural Poverty		3
SOC 224 Immigration & Assimilation *		3
ANT/SOC 213 World Religions		3
SOC 230 Urban Sociology		3
SOC 235 Sociology of Gender *		3
ANT/SOC 241 Race & Ethnicity		3
ANT/SOC 246 Globalization & Development		3
SOC 240 Population Problems		3
ANT 262 Hate Across Cultures *		3
SOC 275 Social Found. Of Human Behavior *		3
SOC 280 Social Movements		3
SOC 371 Selected Topics		3

3. Select ONE Course from the following: 3 SH

SOC 128 Domestic Abuse		3
SOC 150 Law & Society		3
SOC 220 Juvenile Delinquency		3
SOC 245 Sociology of Deviance		3
SOC 247 Environmental Sociology		3
SOC 250 Criminology		3
ANT 262 Hate Across Cultures *		3
SOC 270 Sociology of Organizations		3
SOC 271 White Collar Crime		3
SOC 372 Selected Topics		3

4. Select ONE Course from the following: 3 SH

SOC 120 Marriage and the Family		3
SOC 122 Intimate Relationships		3
SOC 217 LGBTQ Studies *		3
SOC 224 Immigration & Assimilation *		3
ANT/SOC 232 Marriage In Cross Cult. Perspectives		3
SOC 235 Sociology of Gender *		3
SOC 207 Families & Social Class		3
SOC 208 Childhood & Adolescence/Amer. Soc.		3
SOC 275 Social Found. of Human Behavior *		3
SOC 290 Soc. Geront. & Soc. Welf		3
SOC 370 Selected Topics		3

5. Advanced Requirements: 9 SH

SOC 310 Foundation of Social Theory		3
SOC 350 Methods of Social Research		3
SOC 380 Senior Seminar in Sociology		3

6. Sociology Electives: 6 SH

Any 6 credits of SOC courses offered at KU or transferred from another institution, and not previously used for above requirements.

C. CONCOMITANT COURSES: 18 SH

Concomitant courses may be used to minor in another field concentrate in one or two different academic fields according to the student's career interests, or pursue some other general plan of study. All the above options, must be worked out in consultation with the advisor. (Please note that at least 6 S.H. must be at the 100 level or above any discipline under Liberal Arts & Sciences.)

* Course to be used only once to fulfill major requirements.

**A minimum QPA of 2.00 is required to declare this major.

Degree Requirements

1. Semester Hours:	SH	
a. General Education	60 SH	
b. Major Program	42 SH	
c. Concomitant Courses	18 SH	
Total Semester Hours: 120 minimum		
2. QPA: Overall (2.00 minimum)	Y	N
Major (2.00 minimum)	Y	N
3. Passed Comprehensive Exam	Y	N
4. Cleared for Graduation (term/ yr.):		



COLLEGE OF LIBERAL ARTS & SCIENCES • BA SOCIOLOGY/ FAMILY

ULASSOCFA

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

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COLLEGE OF LIBERAL ARTS & SCIENCES • BA SOCIOLOGY/ SOCIAL ORDER/ DEVIANT BEHAVIOR

ULASSOCDB

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) CM				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) CM				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

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BA Sociology

Department of Anthropology & Sociology

Program:
Program Effective:
Review Date

ULASSOCDB
Jan 27, 2014
March 5, 2013

B. SOCIAL ORDER & DEVIANT BEHAVIOR TRACK: 42 SH GR SH

1. Foundation Requirements: 9 SH		
SOC 010 Principles of Sociology		3
SOC 200 Statistics/ Soc. & Beh. Science or		3
SOC 201 Quantitative Analysis in Sociology		
SOC 260 Social Stratification		3

2. Select FOUR Courses from the following: 12 SH

SOC 128 Domestic Abuse		3
SOC 150 Law & Society		3
SOC 220 Juvenile Delinquency		3
SOC 245 Sociology of Deviance		3
SOC 247 Environmental Sociology		3
SOC 250 Criminology		3
ANT 262 Hate Across Cultures *		3
SOC 270 Sociology of Organizations		3
SOC 271 White Collar Crime		3
SOC 372 Selected Topics		3

3. Select ONE Course from the following: 3 SH

SOC 217 LGBTQ Studies *		3
SOC 222 Rural Poverty		3
SOC 224 Immigration & Assimilation *		3
ANT/SOC 213 World Religions		3
SOC 230 Urban Sociology		3
SOC 235 Sociology of Gender *		3
ANT/SOC 241 Race & Ethnicity		3
ANT/SOC 246 Globalization & Development		3
SOC 240 Population Problems		3
ANT 262 Hate Across Cultures *		3
SOC 275 Social Found. Of Human Behavior *		3
SOC 280 Social Movements		3
SOC 371 Selected Topics		3

4. Select ONE Course from the following: 3 SH

SOC 120 Marriage and the Family		3
SOC 122 Intimate Relationships		3
SOC 217 LGBTQ Studies *		3
SOC 224 Immigration & Assimilation *		3
ANT/SOC 232 Marriage In Cross Cult. Perspectives		3
SOC 235 Sociology of Gender *		3
SOC 207 Families & Social Class		3
SOC 208 Childhood & Adolescence/Amer. Soc.		3
SOC 275 Social Found. of Human Behavior *		3
SOC 290 Soc. Geront. & Soc. Welf		3
SOC 370 Selected Topics		3

5. Advanced Requirements: 9 SH

SOC 310 Foundation of Social Theory		3
SOC 350 Methods of Social Research		3
SOC 380 Senior Seminar in Sociology		3

6. Sociology Electives: 6 SH

Any 6 credits of SOC courses offered at KU or transferred from another institution, and not previously used for above requirements.

C. CONCOMITANT COURSES: 18 SH GR SH

Concomitant courses may be used to minor in another field, concentrate in one or two different academic fields according to the student's career interests, or pursue some other general plan of study. All the above options, must be worked out in consultation with the advisor. (Please note that at least 6 S.H. must be at the 100 level or above any discipline under Liberal Arts & Sciences.)

* Course to be used only once to fulfill major requirements.

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Degree Requirements

1. Semester Hours:		SH
a. General Education	60 SH	
b. Major Program	42 SH	
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Total Semester Hours: 120 minimum		
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Major (2.00 minimum)	Y	N
3. Passed Comprehensive Exam	Y	N
4. Cleared for Graduation (term/ yr.):		



COLLEGE OF LIBERAL ARTS & SCIENCES • BA • SPANISH

Program Code: **ULASSPA**

GENERAL EDUCATION

Effective Date: **08/29/2011**

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: HEA 110 + activity; or 3-credit Wellness course			
COURSE:	3		

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COURSE:	3			
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COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) CM Computer-Intensive (CP) (3 credits)				
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C. Visual Literacy (VL) (3 credits) CM Communication-Intensive (CM) (3 credits)				
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D. Cultural Diversity (CD) (3 credits)				
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IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.

B.A. Spanish

Department of Modern Language Studies

Program # 28600

Version # 20123

Program Effective: Fall 2011

B. MAJOR PROGRAM:	39-42 S.H.	GR.	S.H.
1. Required Courses: 18 S.H.			
SPA 103 Intermediate Spanish III			3
SPA 104 Intermediate Spanish IV			3
SPA 212 Spanish Composition			3
SPA 213 Spanish Conversation			3
SPA 325 Advanced Syntax & Style			3
SPA 380 Senior Seminar			3
2. Elective Courses: 21-24 S.H.			
Minimum 2 courses out of these electives			
SPA 301 Survey of Spanish Lit. I			3
SPA 302 Survey of Spanish Lit. II			3
SPA 315 Rebels and Romantics			3
SPA 320 Contemp. Spanish Novel			3
SPA 330 Contemp. Spanish Drama			3
SPA 340 Spanish Culture & Civiliz.			3
SPA 341 Modn Spain 1898-Present			3
SPA 350 Span Drama/Golden Age			3
SPA 355 Spanish Lit./Golden Age			3
SPA 431 Modern Spain/Lit & Film			3
Minimum 2 courses out of these electives			
SPA 311 Spanish-Am. Lit. to 1910			3
SPA 312 Spanish-Am. Lit./20 th Cen.			3
SPA 345 Latin Am.Culture/19 th Cen.			3
SPA 346 Latin Am Cult/19 th C.-Pres.			3
SPA 348 Mexican Culture & Civ.			3
SPA 358 Voices of Central America			3
SPA 368 Caribbean: Race, Gender			3
SPA 413 Span-Amer Novelists			3
SPA 414 Span-Amer Short Story			3
SPA 415 Mexican Literature			3
SPA 435 Mod. Latin Amer. Drama			3
SPA 447 Mexican Culture & Civ.			3
Additional Electives			
SPA 220 Applied Linguistics in SPA			3
SPA 230 Cultural Issues thru Film			3
SPA 290 Commercial Spanish			3
SPA 343 Bilingualism			3
SPA 360 Study Abroad Experience			1-6
SPA 370 Selected Topics in Spanish			3
SPA 390 International Internship			3
SPA 425 Adv. Grammar & Comp.			3
SPA 460 Hispanic Lit. in USA			3
SPA 461 Span. for Urban Educators			3
SPA 495 Independent Study			3

C. CONCOMITANT COURSES: 12 SH	GR.	S.H.
Select four courses from the following: ANT 102; ENG 103-104; GEG 125; HIS 111, 131, 232, 233; foreign language courses other than Spanish; or other courses approved by the advisor.		

D. A&S ELECTIVES: 6-9 S.H.	GR.	S.H.
Select courses from any discipline under Liberal Arts and Sciences		

Notes:

- Oral and written proficiency in English is a program requirement.
- Native speakers must substitute any course from Section B.2 for SPA 213 with the advisor's approval.
- No more than 45 S.H. in Spanish may apply toward the 120 S.H. minimum total required for graduation.
- SPA courses taken in General Education apply towards the 39 S.H. minimum in the major discipline. However, the credit hours should not be counted twice.
- If courses listed in Section C. are to be taken under General Education, then do not count the credit hours twice. Semester hour deficits may be made up by increased credit hours under Section D.
- Students intending to CLEP Spanish courses should first consult with the departmental Chair. A CLEP test cannot be taken for a level of Spanish lower than the one for which the student receives credit.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • BIOCHEMISTRY

Program Code **ULASBIOCH**

Version Number: **Fall 2011**

Effective Date: **01/19/2015**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
BIOCHEMISTRY**

VI. MAJOR PROGRAM: 58 S.H.			
A. Required CHM: 34 S.H.		Gr.	S.H.
CHM 100 General Chemistry I			4
CHM 102 General Chemistry II			4
CHM 214VL Organic Chemistry I			4
CHM 216WI Organic Chemistry II			4
CHM 230QLWI Analytical Chemistry I			4
CHM 310 Biochemistry I			4
CHM 312 Biochemistry II			4
CHM 314 Physical Chemistry I			4
CHM 380 Senior Seminar in Chem.			2
B. Required BIO: 8 S.H.			
BIO 104 Principles of Biology			4
BIO 106 Intro. To Zoology OR BIO 108 Intro. To Botany			4
C. GENETICS/MOLEC: 3 S.H.			
BIO 216QL Genetics OR BIO 346 Molecular Biology			3
D. CELL Elective: 3 S.H.			
BIO 350 Cell Biology	Select one course from this block		3
BIO 354 Developmental Biology			3
BIO 356 Immunology			3
E. CHM Electives: 4/10 S.H. **			
CHM 300 Level Elective			3-4
CHM 300 Level Elective			3-4
CHM 300 Level Elective			3-4
CHM 37X Research in Chemistry *			1-4*
CHM 39X Chemistry Elective			1-4*
F. BIO Elective: 0/6 S.H. **			
Any course from VI.C or VI.D only if not used to satisfy VI.C or VI.D.			3
BIO 224 Appl. Env. Microbiology			3
BIO 228 Human Physiology			3
BIO 232 Plant Physiology			3
BIO 300 Comparative Animal Physiology			3
BIO 306 Food Microbiology			3
BIO 330 Histology			3
BIO 336 Medical Microbiology			3
BIO 370 Research in Biology *			1-3*
BIO 390 Internship in Biology			3-6*
BIO 460 Cancer Biology			3
VII. CONCOMITANT COURSES: 16 S.H.			
A. PHYSICS: 8 S.H.			
PHY 100 Physics I			4
PHY 102 Physics II			4
B. MATHEMATICS: 8 S.H.			
MAT 181 Calculus I			4
MAT 182 Calculus II			4
TOTAL SEMESTER HOURS			

NOTES

* The combined credit total toward the major program for CHM 370, CHM 371 CHM 372, CHM 373 & BIO 370 may not exceed 4 S.H.

**The combined credits between Section E and Section F should total 10 S.H. with a minimum of 4 S.H. from Section E.

A minimum of 120 s.h. are required for graduation.

Program Code: ULASBIOCH
Effective Date of Program: January 19, 2015
Reviewed: 3/14



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • BIO/ALLIED HEALTH

Program Code: ULASBIOAH

Version Number: Fall 2011

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE: ▲ MAT 106, 115, or 181	3	3/4	
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: ▲ BIO 216QL	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: ▲ PSY at the 100, 200, or 300 level but not PSY 200	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) [1]				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) [1]				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

▲ Indicates the suggested placement in General Education of a required major course.

RC = Minimum required number of credits

CR = Credits earned (fill in number of credits)

GR = Grade earned (fill in letter grade)

CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ BIO 224	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: ▲ BIO 270CTWI	3			
COURSE: ▲ MAT 140QL, PSY/SOC 200, or MAT 150	3	3/4		
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE BIOLOGY / ALLIED HEALTH

MAJOR PROGRAM: 60 S.H.			
V. MAJOR REQUIREMENTS: 40 S.H. (See Note 1)			
A. REQUIRED BIO: 14 S.H.			
Gr.	S.H.	CAC	
	BIO 104 Principles of Biology*	4	
	BIO 106 Intro. To Zoology	4	
	BIO 108 Intro. To Botany	4	
▲	BIO 216QL Genetics		
▲	BIO 224 Applied Env. Microbiology		
▲	BIO 270CT WI Research Methods		
	BIO 380 Senior Seminar	2	
B. Allied Health TRACK: 8 S.H.			
	BIO 120 Anatomv & Phvs. I	4	
	BIO 122 Anatomv & Phvs. II	4	
C. ELECTIVES: 18 S.H.			
	BIO 252 Cellular Phys. & Metab.	12	
	BIO 264 Comparative Anatomy		
	BIO 306 Food Microbiology		
	BIO 330 Histology		
	BIO 334 Medical Parasitology		
	BIO 336 Medical Microbiology		
	BIO 354 Developmental Biology		
	BIO 356 Immunology		
	BIO 370 Research in Biology OR BIO 390 Internship in Biology		
	CHM 216VL Organic Chemistry II		
	BIO 460 Cancer Biology	Select four courses from this block.	
	BIO Field Elective (See Note 3)		
	BIO 200 ,300 or 400 level Elective		
		3	
		3	
VI. CONCOMITANT COURSES: 20 S.H.			
A. REQUIRED CHM: 12 S.H.			
	CHM 100 General Chemistry I	4	
	CHM 102 General Chemistry II	4	
	CHM 204 Fund. of Organic Chem. OR CHM 214VL Organic Chemistry I	4	
B. REQUIRED PHY: 8 S.H.			
	PHY 040 Physics I & PHY 042 Physics II OR	4	
	PHY 100 Physics I & PHY 102 Physics II	4	
C. MATHEMATICS			
▲	MAT 106 Trigonometry OR MAT 115 Precalculus OR MAT 181 Calculus I		
▲	MAT 140QL Applied Statistics OR PSY/SOC 200 Statistics** OR MAT 150 Biostatistics OR		
D. PSYCHOLOGY: (See Note 6)			
▲	PSY at the 100 ,200, or 300 level		

NOTES
1. 5 BIO courses in Cat. V must be at the 300 or 400 level.
2. *Grade of C or better required for BIO 104 to be counted as a prerequisite.
3. Choose one course from among the following: BIO 218 Vertebrate Biology, BIO/ENV 222WI Env. Bio, BIO/MAR 226 Marine Biology, BIO 230 Plant Tax, BIO/ENV 244 Ecology, BIO 302 Entomology, BIO 308 Ornithology, BIO 314 Animal Behav., BIO 322 Pop & Comm Ecology, BIO 324 Plant Ecology, BIO 342 Herpetology, BIO 332WI Aquatic Ecology, BIO 358 Conservation Biology, Biology courses offered at Chincoteague Bay Field Station (200 level or above)
4. No single course can be used in more than one category.
5. ** PSY 011 and SOC 010 are prereq. for this course
6. PSY 200 cannot be used to fulfill this category

▲ Indicates courses required for the major, but used to satisfy requirements of General Education.
The units for these courses are counted only under General Education.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • BIOLOGY/MOLECULAR/MICRO/CELL

Program Code ULASBIOMM

Version Number: Fall 2011

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE: ▲ MAT 106, 115, or 181	3	3/4	
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: ▲ BIO 216QL	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ BIO 224	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ MAT 140QL, PSY/SOC 200, MAT 150, MAT 181, or MAT 182	3	3/4		
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) [11] Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) [11] Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.
▲ Indicates the suggested placement in General Education of a required major course.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: ▲ BIO 270CTWI	3			
COURSE: ▲ BIO 252 or CHM 312	3	3/4		
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE BIOLOGY / MOLECULAR / MICRO / CELL

VI. MAJOR PROGRAM: 123 S.H. (see Note 1)			
A. REQUIRED BIO: 23 S.H.	Gr.	S.H.	CAC
BIO 104 Principles of Biology*		4	
BIO 106 Intro. To Zoology		4	
BIO 108 Intro. To Botany		4	
BIO 216QL Genetics		3	
BIO 224 Applied Env. Microbiology		3	
BIO 270CT WI Research Methods		3	
BIO 380 Senior Seminar		2	
B. MOLEC/MICRO/CELL TRACK: 9/10 S.H. (see Note 4)			
BIO 252 Cell. Phys. & Metab. OR CHM 312 Biochemistry II		3/4	
BIO 346 Molecular Biology		3	
BIO 350 Cell Biology		3	
C. ELECTIVES: 12 S.H.			
BIO 122 Anatomy & Phys II OR BIO 228 Human Physiology BIO 232 Plant Physiology BIO 300 Comp. Animal Physiology BIO 306 Food Microbiology BIO 330 Histology BIO 334 Medical Parasitology BIO 336 Medical Microbiology BIO 354 Developmental Biology BIO 356 Immunology BIO 370 Research in Biology OR BIO 390 Internship in Biology BIO 460 Cancer Biology		6 Select two courses from this block.	
BIO Field Elective (see Note 3)		3	
BIO 200, 300, or 400 level elective		3	
VII. CONCURRENT COURSES: 34/36 S.H.			
A. REQUIRED CHM: 20 S.H.			
CHM 100 General Chemistry I		4	
CHM 102 General Chemistry II		4	
CHM 214VL Organic Chemistry I		4	
CHM 216WI Organic Chemistry II		4	
CHM 310 Biochemistry I		4	
B. REQUIRED PHY: 8 S.H.			
PHY 040 Physics I & PHY 042 Physics II OR PHY 100 Physics I & PHY 102 Physics II		4 4	
C. MATHEMATICS 6/8 S.H.			
MAT 106 Trigonometry OR MAT 115 Precalculus OR MAT 181 Calculus I		3/4	
MAT 140QL Applied Statistics OR PSY/SOC 200 Statistics OR MAT 150 Biostatistics OR MAT 181 Calculus I OR MAT 182 Calculus II		3/4	
MIN. REQ. SEMESTER HOURS		120	

NOTES
1. 5 courses in Cat. VI must be at the 300 or 400 level.
2. *Grade of C or better for BIO 104 to be counted as a prerequisite.
3. Choose one course from among the following: BIO 218 Vertebrate Biology, BIO/ENV 222WI Env. Bio, BIO/MAR 226 Marine Biology, BIO 230 Plant Tax, BIO/ENV 244 Ecology, BIO 302 Entomology, BIO 308 Ornithology, BIO 314 Animal Behavior, BIO 322 Pop & Comm. Ecology, BIO 324 Plant Ecology, BIO 342 Herpetology, BIO 332WI Aquatic Ecology, BIO 358 Conservation Biology, Biology courses offered at Chincoteague Bay Field Station (200 level or above).
4. No single course can be used in more than one category.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • BIOLOGY/ORGANISMAL/ECOLOGY

Program Code: ULASBIOOE

Version Number: Fall 2011

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE: MAT 106, 115, or 181 suggested	3/4		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 216 suggested	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: BIO 224 suggested	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: MAT 106, 115, or 181 suggested	3/4			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: Fulfilled with suggested course	3			
COURSE: Fulfilled with suggested course	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE BIOLOGY / ORGANISMAL / ECOLOGY

VI. MAJOR PROGRAM: 48/49 S.H. (see Note 1)			
A. REQUIRED BIO: 23 S.H.	Gr.	S.H.	CAC
BIO 104 Principles of Biology*		4	
BIO 106 Intro. To Zoology		4	
BIO 108 Intro. To Botany		4	
BIO 216QL Genetics		3	
BIO 224 Applied Env. Microbiology		3	
BIO 270CT WI Research Methods		3	
BIO 380 Senior Seminar		2	
B. ORGANISMAL/ECOLOGY TRACK: 12 S.H. (see Note 3)			
BIO 244 Ecology		4	
BIO 122 Anatomy & Phys II OR BIO 228 Human Phys OR BIO 232 Plant Physiology OR BIO 300 Comp. Animal Physiol. OR BIO 320 Phys. Ecology Animals		3/4	
BIO 218 Vertebrate Biology OR BIO 302 Entomology OR BIO 308 Ornithology OR BIO 316 Invertebrate Biology		3	
BIO 230 Taxonomy Vasc. Plants OR BIO 232 Plant Phys OR BIO 324 Plant Ecology		3	
C. ELECTIVES: 12 S.H. (see Note 4)			
BIO 218 Vertebrate Biology BIO 222WI Environmental Biology BIO 226 Marine Biology BIO 230 Taxonomy Vascular Plants BIO 232 Plant Physiology BIO 300 Comp. Animal Physiology BIO 302 Entomology BIO 308 Ornithology BIO 314 Animal Behavior BIO 316 Invert. Biology BIO 320 Physiological Ecology Animals BIO 322 Pop. & Community Ecology BIO 324 Plant Ecology BIO 326 Marine Ecology BIO 332WI Aquatic Ecology BIO 334 Medical Parasitology BIO 342 Herpetology BIO 346 Molecular Biology BIO 350 Cell Biology BIO 358 Conservation Biology BIO 370 Research OR BIO 390 Internship		9 select three courses from this block	
BIO MAR or ENV 200-400 level elective		3	
II. CONCOMITANT COURSES: 30/32 S.H.			
A. REQUIRED CHM: 16 S.H.	Gr.	S.H.	CAC
CHM 100 General Chemistry I		4	
CHM 102 General Chemistry II		4	
CHM 214VL Organic Chemistry I		4	
CHM 216WI Organic Chemistry II		4	
B. REQUIRED PHY: 8 S.H.			
PHY 040 Physics I & PHY 042 Physics II OR PHY 100 Physics I & PHY 102 Physics II		4 4	
C. MATHEMATICS 6/8 S.H.			
MAT 106 Trigonometry OR MAT 115 Precalculus OR MAT 181 Calculus I		3/4	
MAT 140QL Applied Statistics OR PSY/SOC 200 Statistics OR MAT 150 Biostatistics OR MAT 181 Calculus I OR MAT 182 Calculus II		3/4	
MIN. REQ. SEMESTER HOURS		120	

NOTES	
1.	5 courses in Cat. VI must be at the 300 or 400 level.
2.	*Grade of a C or better required for BIO 104 to count as a prerequisite.
3.	No single course can count toward more than one category.
4.	All students must take at least one 300 level Ecology course. (any BIO course with Ecology in the name or BIO 358 Conservation Biology).



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • BIO/PRE-MED & OTHER HEALTH CAREERS

Program Code: ULASBIOMH

Version Number: Fall 2011

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)

	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE: MAT 106, 115, or 181 suggested	3/4		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)

	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: BIO 216 suggested	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM

	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)

	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: BIO 224 suggested	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: MAT 106, 115, or 181 suggested	3/4			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: Fulfilled with suggested course	3			
COURSE: Fulfilled with suggested course	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE BIOLOGY / PRE-MEDICAL & OTHER HEALTH CAREERS

VI. MAJOR PROGRAM: 48 S.H. (see Note 1)			
A. REQUIRED BIO: 23 S.H.	Gr.	S.H.	CAC
BIO 104 Principles of Biology*		4	
BIO 106 Intro. To Zoology		4	
BIO 108 Intro. To Botany		4	
BIO 216QL Genetics		3	
BIO 224 Applied Env. Microbiology		3	
BIO 270CT WI Research Methods		3	
BIO 380 Senior Seminar		2	
B. PRE-MEDICAL TRACK: 10 S.H. (see Note 4)			
BIO 264 Comparative Anatomy		4	
BIO 346 Molecular Biology OR BIO 350 Cell Biology		3	
BIO 122 Anatomy & Phys II OR BIO 228 Human Physiology OR BIO 300 Comp. Animal Phys		3/4	
C. ELECTIVES: 15 S.H.			
BIO 252 Cellular Phys. & Metab. OR CHM 312 Biochem II		9 Select three courses from this block.	
BIO 306 Food Microbiology			
BIO 330 Histology			
BIO 334 Medical Parasitology			
BIO 336 Medical Microbiology			
BIO 354 Developmental Biology			
BIO 356 Immunology			
BIO 370 Research in Biology OR BIO 390 Internship in Biology			
CHM 310 Biochem I			
BIO 460 Cancer Biology			
BIO Field Elective (See Note 3)		3	
BIO 200, 300 or 400 level Elective		3	
VII. CONCOMITANT COURSES: 30/32 S.H.			
A. REQUIRED CHM: 16 S.H.			
CHM 100 General Chemistry I		4	
CHM 102 General Chemistry II		4	
CHM 214VL Organic Chemistry I		4	
CHM 216WI Organic Chemistry II		4	
B. REQUIRED PHY: 8 S.H.			
PHY 040 Physics I & PHY 042 Physics II OR PHY 100 Physics I & PHY 102 Physics II		4	
		4	
C. MATHEMATICS 6/8 S.H.			
MAT 106 Trigonometry OR MAT 115 Precalculus OR MAT 181 Calculus I		3/4	
MAT 140QL Applied Statistics OR PSY/SOC 200 Statistics OR MAT 150 Biostatistics OR MAT 181 Calculus I OR MAT 182 Calculus II		3/4	
MIN. REQ. SEMESTER HOURS		120	

NOTES
1. 5 courses in Cat. VI must be at the 300 or 400 level.
2. *Grade of C or better required for BIO 104 to be counted as a prerequisite.
3. Choose one course from among the following: BIO 218 Vertebrate Biology, BIO/ENV 222WI Env. Bio, BIO/MAR 226 Marine Biology, BIO 230 Plant Tax, BIO/ENV 244 Ecology, BIO 302 Entomology, BIO 308 Ornithology, BIO 314 Animal Behav., BIO 322 Pop & Comm Ecology, BIO 324 Plant Ecology, BIO 342 Herpetology, BIO 332WI Aquatic Ecology, BIO 358 Conservation Biology, Biology courses offered at Chincoteague Bay Field Station (200 level or above)
4. No single course can be used in more than one category.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • CHEMISTRY

Program Code **ULASCHES**

Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) RC CR GR

A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits) RC CR GR CAC

A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM RC CR GR CAC

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) CP Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) CM Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits) RC CR GR CAC

A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

C. Humanities (9 credits): Choose one course in each subcategory. RC CR GR CAC

1. Elective: PAG*, ENG, WRi, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRi, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
CHEMISTRY**

V. MAJOR PROGRAM: 45/46 S.H.		
A. REQUIRED: 38 S.H.	Gr.	S.H.
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
CHM 214VL Organic Chemistry I		4
CHM 216WI Organic Chemistry II		4
CHM 230QLWI Analytical Chemistry I		4
CHM 314 Physical Chemistry I		4
CHM 316 Physical Chemistry II		4
CHM 320 Adv. Inorganic Chemistry		4
CHM 340 Analytical Chemistry II		4
CHM 380 Senior Seminar in Chem.		2
B. ELECTIVE: 7/8 S.H.		
CHM 310 Biochemistry I		4*
CHM 312 Biochemistry II		4
CHM 318 Adv. Biochemistry		3
CHM 326 Adv. Organic Chemistry		3
CHM 327 Organometallic Chemistry		3
CHM 336 Adv. Physical Chemistry		3
CHM 351 Selected Topics		1-6
CHM 370 Research in Chemistry I		1-3**
CHM 371 Research in Chemistry II		1-3**
CHM 372 Research in Chemistry III		1-3**
CHM 373 Research in Chemistry IV		1-3**
CHM 390 Internship in Chemistry		1-4
TOTAL SEMESTER HOURS		
VI. CONCOMITANT COURSES: 24 S.H.		
A. PHYSICS: 8 S.H.		
PHY 100 Physics I		4
PHY 102 Physics II		4
B. MATHEMATICS: 12 S.H.		
MAT 181 Calculus I		4
MAT 182 Calculus II		4
MAT 283 Calculus III		4
C. BIOLOGY: 4 S.H.		
BIO 104 Principles of Biology		4

NOTES

* To receive an American Chemistry Society accredited degree, CHM 310 must be taken.

**The combined credit total toward the major program for CHM 370, CHM 371, CHM 372, & CHM 373 may not exceed 4 S.H. Any additional credit hours count toward free electives.

A minimum of 120 s.h. are required for graduation.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS/MS • COMPUTER SCIENCE: INFORMATION TECHNOLOGY

Program Code: ULASCSCIC

Version Number: 2118 - Fall 2011

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)		RC	CR	GR
A. Oral Communication: COM 10 or above				
COURSE:		3		
B. Written Communication: ENG 23, 24, or 25				
COURSE:		3		
C. Mathematics: MAT 17 or above				
COURSE: MAT 140		3		
D. Wellness: Any 3-credit HEA course				
COURSE:		3		

II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)					
COURSE:		3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)					
COURSE:		3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language					
COURSE:		3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE					
COURSE:		3			
E. Free Elective: Any course carrying university credit					
COURSE:		3			

III. COMPETENCIES ACROSS THE CURRICULUM		RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)					
COURSE:		3			WI
COURSE:		3			WI
COURSE:		3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)					
COURSE:		3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)					
COURSE:		3			
D. Cultural Diversity (CD) (3 credits)					
COURSE:		3			CD
E. Critical Thinking (CT) (3 credits)					
COURSE:		3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)		RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.					
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)					
COURSE:		3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEG (see note at right), GEL, MAR, MAT, NSE, or PHY					
COURSE:		3			
B. Social Science (9 credits): Choose one course in each subcategory.					
1. Elective: HIS, ANT, GEG (see note at right), or POL					
COURSE:		3			
2. Elective: PSY, SOC, CRJ, or SWK					
COURSE:		3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK					
COURSE:		3			

C. Humanities (9 credits): Choose one course in each subcategory.		RC	CR	GR	CAC
1. Elective: PAG*, ENG, WRI, or HUM					
COURSE: WRI 207WICT		3			
2. Elective: Modern Language (103 or above) or PHI					
COURSE: PHI 40 CDCT		3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI					
COURSE:		3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.					
COURSE:		3			
COURSE:		3			
COURSE:		3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

BS Computer Science: Information Technology (60 CR)

Program Code: ULASCSCIC

Version Number: 2162 - Spring 2016

Effective Date: January 19, 2016

Major Program: 57 credits		
1. Required Courses: 33 credits	CR	GR
CSC 125: Discrete Math for CS I		
CSC 130: IT Fundamentals		
CSC 135: Comp Sci I		
CSC 136: Comp Sci II		
CSC 242: Web Programming		
CSC 253: IT Systems		
CSC 311: Computer Networks		
CSC 341: Information Security		
CSC 356: Introduction to Database Sys		
CSC 354: Software Engineering I		
CSC 355: Software Engineering II		

Concomitant Courses: 3 credits		
1. Required Courses: 3 credits	CR	GR
MAT 105: College Algebra or above		
MAT 140: Applied Stat Methods*	X	X
WRI 207: Writing for Workplace*	X	X
PHI 040: Intro to Ethics*	X	X
*accounted for in general education		
2. Internship – optional (Gen Ed free elective)	CR	GR
CSC 280: Cooperative Internship I	1-6	
CSC 380: Cooperative Internship II	1-6	

2. CS Elective Courses: 24 credits of additional CSC courses, number 125 or above and not previously used for above requirements.	CR	GR

Recommendations
Consider taking a Minor in an Application Domain such as Math, Entrepreneurial Leadership, Business, Psychology, Sociology, Biology, or any Science.
Consider taking a second speech course in General Education II E
CSC-prefix courses below 125-level, CSC 280 and CSC 380 do not count toward the major requirements for a BS in Computer Science/Information Technology (they can count in general education).
Before taking any 300-level course a student must have completed 18 credit hours in CSC courses numbered 125 or above with a GPA of 2.25 in the CSC courses.

Internal Transfer: 2.25 GPA required
Graduation Requirement: 2.25 GPA Major

Degree Requirements		
1. Semester Hours (Total: 120)	Req	Earned
a. General Education	60	
b. Major Program	57	
c. Concomitant Courses	3	
2. GPA		
a. Overall	2.0	
b. Major	2.25	
3. Passed Comprehensive Exam	Semester:	



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • COMPUTER SCIENCE: SOFTWARE DEVELOPMENT

Program Number: ULASCSCSD

Version Number: 2118 - Fall 2011

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) RC CR GR

A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE: MAT 140 or 301	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits) RC CR GR CAC

A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM RC CR GR CAC

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits) RC CR GR CAC

A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEG (see note at right), GEL, MAR, MAT, NSE, or PHY				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			

RC CR GR CAC

C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE: WRI 205WI OR WRI207WICT	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE: PHI 40 CDCT	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

BS Computer Science: Software Development (60CR)

Program Code: ULASCSCSD

Version Number: 2162 - Spring 2016

Effective Date: January 19, 2016

Major Program: 51 credits		
1. Required Courses: 33 credits	CR	GR
CSC 125: Discrete Math for CS I		
CSC 225: Discrete Math for CS II		
CSC 135: Comp Sci I		
CSC 136: Comp Sci II		
CSC 235: Comp Org & Asm. Lng.		
CSC 237: Data Structures		
CSC 310: Prog. Languages		
CSC 328: Network Programming		
CSC 343: Operating Systems		
CSC 354: Software Engineering I		
CSC 355: Software Engineering II		

2. CS Elective Courses: 18 credits	CR	GR
a. CS Elective Courses: 0-6 credits of additional 200-level CSC courses, not previously used for above requirements.		
b. CS Elective Courses: 12-18 credits of additional CSC courses, number 300 or above and not previously used for above requirements.		

Concomitant Courses: 9 credits		
1. Required Courses: 9 credits	CR	GR
MAT 181: Calculus I		
MAT 260: Linear Algebra		
MAT (elective higher than 181, not 224)		
MAT 140 or 301: Applied Stat Methods*	X	X
WRI 205: Scientific Writing OR WRI 207: Writing for the Workplace*	X	X
PHI 040: Intro to Ethics*	X	X
*accounted for in general education		
2. Internship – optional (Gen Ed free elective)	CR	GR
CSC 280: Cooperative Internship I	1-6	
CSC 380: Cooperative Internship II	1-6	

Notes
Students minoring in Math should take MAT 301 (not MAT140).
Before taking any 300-level course a student must have completed 18 credit hours in CSC courses numbered 125 or above with a GPA of 2.25 in the CSC courses.
CSC-prefix courses below 125-level, CSC 130, CSC 280 and CSC 380 do not count toward the major requirements for a BS in Computer Science/Software Development (they can count in general education).

Degree Requirements		
1. Semester Hours (Total: 120)	Req	Earned
a. General Education	60	
b. Major Program	51	
c. Concomitant Courses	9	
2. GPA		
a. Overall	2.0	
b. Major	2.25	
3. Passed Comprehensive Exam	Semester:	

Internal Transfer: 2.25 GPA required
Graduation Requirement: 2.25 GPA Major

B. S. Criminal Justice

Academic Plan	ULASCRJ
Effective:	August 29, 2016
Check Sheet Reviewed:	Fall 2016

Department of Criminal Justice

120 S.H. (minimum)

B. MAJOR PROGRAM: 42 S.H.		
1. Required Courses: 18 S.H.*	GR.	S.H.
CRJ 010 Intro to Criminal Justice		3
CRJ 121 Introduction to Law		3
CRJ 175 CRJ Organizations & Systems		3
CRJ 250 Criminology		3
CRJ 362CPWI Research Methods		3
CRJ 380CTWI Senior Seminar		3
2. Major Electives: 24 S.H.		
CRJ 101 Introduction to Policing		3
CRJ 170 Intro to Security Management		3
CRJ 171 Loss Prevention/Asset Protection		3
CRJ 181 Criminal Law		3
CRJ 182 Criminal Procedure		3
CRJ 190 Federal Law Enforcement		3
CRJ 200CD Comp Crim Just Systems		3
CRJ 210 Development of Crim Just. Sys		3
CRJ 215 Intro to Crime Mapping/Analysis		3
CRJ 221CD Juvenile Justice		3
CRJ 232 Diversity in Criminal Justice		3
CRJ 270 Management of Offenders		3
CRJ 271 Substance Abuse & Crime		3
CRJ 272 Community Corrections		3
CRJ 273 Career Criminals/Criminal Careers		3
CRJ 274 Policy, Punishment & Society		3
CRJ 280 Ethics in Criminal Justice		3
CRJ 281CM Crime Prevention		3
CRJ 301 Investigation/Intelligence		3
CRJ 320 Evidence		3
CRJ 321 Contemporary Legal Issues		3
CRJ 322 National Security Law		3
CRJ 370 Selected Topics		3
CRJ 379 Independent Study		3
CRJ 390 Internship in CRJ I**		6
*A grade of "C" or better is required in all B. 1. Required Courses: 18 S.H.		
**Students who want to have an internship experience may take six CJ Electives in addition to CRJ 390, Internship in CRJ I (6 s.h.)		
NOTE: Transfer Students must complete half (21 credits) of their Criminal Justice requirements at Kutztown University		

C. CONCOMITANT COURSES: 12 S.H.	GR.	S.H.
Consult with major advisor before selecting from courses carrying the following prefixes: ACC, ANT, BIO, BUS, CHM, CSC, ECO, ENG, GEG, HIS, MAT, PHI, PHY, POL, PSY, SOC, SWK, WRI & courses offered by the Modern Language Studies Dept.		
		3
		3
		3
		3

D. ELECTIVES: 6 S.H.	GR.	S.H.
Select any 100 level or above credit courses offered or accepted by the University that counts toward graduation.		
		3
		3

TOTAL SEMESTER HOURS: Minimum 120		
2. GPA: Overall (2.00 minimum)	Y	N
Major (2.00 minimum)	Y	N
3. Cleared for Graduation (term/yr):		
a. Dept. Advisor (Initial/Date)		
b. Dept. Chair (Initial/Date)		



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • ENVIRONMENTAL SCIENCE/BIOLOGY

Program Code: ULASENVBI

Version Number: 2118

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	
A. Oral Communication: COM 10 or above				
COURSE:	3			
B. Written Communication: ENG 23, 24, or 25				
COURSE:	3			
C. Mathematics: MAT 17 or above				
COURSE: ▲ MAT106, 115, 181 (4 credits)	3			
D. Wellness: Any 3-credit HEA course				
COURSE:	3			
II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: ▲ ENV 100	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE ▲ GEL/ENV 210	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) [7]				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) [7]				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

▲ Indicates the suggested placement in General Education of a required major course. The units count only under General Education

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ BIO/ENV 222	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ CHM/ENV 220	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE: ▲ GEG 010	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

C. Humanities (9 credits):	RC	CR	GR	CAC
Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: ▲ BIO/ENV 224	3			
COURSE: ▲ MAT 140, PSY/SOC 200, MAT 150	3			
COURSE: ▲ GEG 274	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
ENVIRONMENTAL SCIENCE/BIOLOGY**

VI. MAJOR PROGRAM: 60 S.H.		
A. Core (12 SH)	Gr.	S.H.
BIO 104 Principles of Biology		4
CHM 100 General Chemistry I		4
▲ ENV 100 Intro. to Env. Science		
▲ GEG 010 Physical Geography		
GEL 100 Physical Geology		4
B. Common Courses (26 SH)		
BIO 106 Intro. To Zoology		4
BIO 108 Intro. To Botany		4
CHM 102 General Chemistry II		4
CHM 214 Organic Chemistry I OR CHM 204 Fund of Organic Chemistry		4
▲ ENV 210 Environmental Geology		
▲ ENV 220 Environmental Analysis		
▲ ENV 222 Environmental Biology		
ENV 380 Senior Seminar		2
▲ GEG 274 Introduction to GIS		
▲ MA1 106 Trigonometry OR ▲ MAT 115 Precalculus OR ▲ MAT 181 Calculus I AND ▲ MAT 140 Appl. Statistics OR ▲ MAT 150 Intro to Biostatistics OR ▲ PSY 200 Stat.So.&Be.Sci. (Note 1)		
PHY 040 General Physics I & PHY 042 General Physics II OR PHY 100 Physics I & PHY 102 Physics II		4 4
C. Environmental Biology Track (16 SH)		
BIO 230 Taxonomy of Vasc Plants OR BIO 232 Plant Physiology		3
▲ ENV 224 Applied Env Micro		
BIO 320 Physiol. Ecol. of Animals OR BIO 324 Plant Ecology OR BIO 326 Marine Ecology OR BIO 332 Limnology		3
BIO 302 Entomology OR BIO 316 Invertebrate Biology		3
BIO 244 Ecology		4
BIO/ENV 3XX BIO/ENV Elective (Note 2)		3
D. Restricted Electives (6 SH)		
(Note 3)	Gr.	S.H.
		3
		3

NOTES

1. PSY 011, & SOC 010, are prerequisites to all other courses in their respective disciplines.
2. BIO OR ENV3XX Research in Biology or Environmental Science OR Internship in Biology may be used for three credits only.
3. Choice of courses made with advisor from a list maintained by Env. Sci. Committee.

▲ Indicates courses required for the major, but used to satisfy requirements of General Education. The units for these courses are counted only under General Education.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • ENVIRONMENTAL SCIENCE/CHEMISTRY

Program Code: **ULASENVCH**

Version Number: **2118**

Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE: ▲MAT 140QL or MAT 150 (Note 1)	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, or PHY; or certain GEG courses (see note at right)				
COURSE: ▲ENV 100	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WST, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: ▲GEG 274CP	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE: ENV 220QLWI	3			WI
COURSE: ENV 222WI	3			WI
COURSE: CHM 216WI	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE: ENV 220QLWI	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE: CHM 214VL	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

▲ Indicates the suggested placement in General Education of a required major course.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ENV/BIO 222WI	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ENV/CHM 220QLWI	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE: ▲GEG 10	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE: ▲PSY 200QL (Note1)	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE: ▲Env. Sci. Restricted Elective (Note 2)	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE: ▲Env. Sci. Restricted Elective (Note 2)	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: ▲ENV 210	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 040, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE ENVIRONMENTAL SCIENCE/CHEMISTRY TRACK

V. MAJOR PROGRAM: 60 S.H.		
A. Core (12 SH)	Gr.	S.H.
BIO 104 Princ. of Biology (Note 3)		4
CHM 100 General Chemistry I		4
▲ ENV 100 Intro. to Env. Sci.		
▲ GEG 010 Physical Geography		
GEL 100 Physical Geology		4
B. Common Courses (26 SH)		
BIO 106 Intro. Zoology OR		4
BIO 108 Intro. Botany		
CHM 102 General Chemistry II		4
CHM 214VL Organic Chemistry I		4
▲ ENV 210 Environmental Geology		
▲ ENV 220QLWI Environmental Analysis		
▲ ENV 222WI Environmental Biology		
ENV 380 Senior Seminar		2
▲ GEG 274CP Introduction to GIS		
MAT 181 Calculus I		4
▲ (Note 1) MAT 140QL Appl. Statistics OR		
MAT 150 Intro. To Biostatistics OR		
PSY 200QL Stat. So. & Be. Sci. (Note 4)		
PHY 100 Physics I		4
PHY 102 Physics II		4
C. Environmental Chemistry Track (22 SH)		
CHM 216WI Organic Chemistry II		4
CHM 2XX or 3XX		4
CHM 3XX Chem Elective		4
CHM 3XX Chem Elective		3
CHM 3XX Chem Elective OR		
ENV 3XX Env Sci Elective		3
MAT 182 Calculus II		4
D. Restricted Electives (Note 5)		
▲		
▲		

▲ Indicates courses required for the major, but used to satisfy requirements of General Education. The units for these courses are counted only under General Education.

NOTES
1. Only one of these courses will be taken. Depending on the course prefix, it will count in either category I.C. or IV.B.2.
2. This elective course will be chosen from a list maintained by the Env. Sci. Committee and cross listed with Category V.D.
3. A grade of C or better for BIO 104 is required to be counted as a prerequisite.
4. PSY 11 is a prerequisite to PSY 200QL.
5. Choice of courses will be made with advisor from a list maintained by Env. Sci. Committee.
6. A minimum of 120 s.h. are required for graduation.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • ENVIRONMENTAL SCIENCE/CHEMISTRY

Program Code: **ULASENVCH**

Version Number: **2118**

Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE: ▲MAT 140QL or MAT 150 (Note 1)	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, or PHY; or certain GEG courses (see note at right)				
COURSE: ▲ENV 100	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WST, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: ▲GEG 274CP	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE: ENV 220QLWI	3			WI
COURSE: ENV 222WI	3			WI
COURSE: CHM 216WI	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE: ENV 220QLWI	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE: CHM 214VL	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

▲ Indicates the suggested placement in General Education of a required major course.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ENV/BIO 222WI	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ENV/CHM 220QLWI	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE: ▲GEG 10	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE: ▲PSY 200QL (Note1)	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE: ▲Env. Sci. Restricted Elective (Note 2)	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE: ▲Env. Sci. Restricted Elective (Note 2)	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: ▲ENV 210	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 040, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE ENVIRONMENTAL SCIENCE/CHEMISTRY TRACK

V. MAJOR PROGRAM: 60 S.H.		
A. Core (12 SH)	Gr.	S.H.
BIO 104 Princ. of Biology (Note 3)		4
CHM 100 General Chemistry I		4
▲ ENV 100 Intro. to Env. Sci.		
▲ GEG 010 Physical Geography		
GEL 100 Physical Geology		4
B. Common Courses (26 SH)		
BIO 106 Intro. Zoology OR		4
BIO 108 Intro. Botany		
CHM 102 General Chemistry II		4
CHM 214VL Organic Chemistry I		4
▲ ENV 210 Environmental Geology		
▲ ENV 220QLWI Environmental Analysis		
▲ ENV 222WI Environmental Biology		
ENV 380 Senior Seminar		2
▲ GEG 274CP Introduction to GIS		
MAT 181 Calculus I		4
▲ (Note 1) MAT 140QL Appl. Statistics OR		
MAT 150 Intro. To Biostatistics OR		
PSY 200QL Stat. So. & Be. Sci. (Note 4)		
PHY 100 Physics I		4
PHY 102 Physics II		4
C. Environmental Chemistry Track (22 SH)		
CHM 216WI Organic Chemistry II		4
CHM 2XX or 3XX		4
CHM 3XX Chem Elective		4
CHM 3XX Chem Elective		3
CHM 3XX Chem Elective OR		
ENV 3XX Env Sci Elective		3
MAT 182 Calculus II		4
D. Restricted Electives (Note 5)		
▲		
▲		

NOTES
1. Only one of these courses will be taken. Depending on the course prefix, it will count in either category I.C. or IV.B.2.
2. This elective course will be chosen from a list maintained by the Env. Sci. Committee and cross listed with Category V.D.
3. A grade of C or better for BIO 104 is required to be counted as a prerequisite.
4. PSY 11 is a prerequisite to PSY 200QL.
5. Choice of courses will be made with advisor from a list maintained by Env. Sci. Committee.
6. A minimum of 120 s.h. are required for graduation.

▲ Indicates courses required for the major, but used to satisfy requirements of General Education. The units for these courses are counted only under General Education.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • ENVIRONMENTAL SCIENCE / GEOGRAPHY

Academic Plan: **ULASENVGE**

GENERAL EDUCATION

Effective Date: **8/27/2012 (version 2128)**

I. UNIVERSITY CORE (12-13 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE: Met in Major	3		
D. Wellness: Any 3-credit Wellness course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, NSE, MAR, or PHY; or certain GEG courses (see note at right)				
COURSE: Met in Major	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: Met in Major	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: Met in Major	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE: ENV 220 QLWI Environmental Analysis [‡]	3			WI
COURSE: ENV 222 WI Environmental Biology [‡]	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE: GEG 274 CPQL Intro. to GIS [‡]	3			CP
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE: Suggest GEG 020 CD	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor. [‡]Suggested placement of required thematic course.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, MAR, or PHY; or GEG (see note at right)				
COURSE: Met in Major	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEL, MAR, MAT, NSE, or PHY; or GEG (see note at right)				
COURSE: Met in Major	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: ANT, GEG (see note at right), HIS, or POL				
COURSE:	3			
2. Elective: CRJ, PSY, SOC, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE: Met in Major	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: ENG, PAG*, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: ENG, HUM, PAG*, PHI, WRI, or Modern Language (103 or above)				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE: Met in Major	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. GEG 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012.

B.S. ENVIRONMENTAL SCIENCE / GEOGRAPHY TRACK

Academic Plan: ULASENVGE

IV. MAJOR PROGRAM: 85 S.H.			
A. Core Requirements: 18 S.H.			
Course #	Title	S.H.	Gr.
BIO 104	Principles of Biology	4	
CHM 100	General Chemistry	4	
ENV 100	Intro. Environmental Sci.	3	
GEG 010	Physical Geography	3	
GEL 100	Physical Geology	4	

B. Common Courses: 40 S.H.			
BIO 106	Intro. Zoology <i>or</i>	4	
BIO 108	Intro. Botany		
CHM 102	General Chemistry II	4	
CHM 204	Fund. Of Organic Chem. <i>or</i>	4	
CHM 214	Organic Chemistry I		
ENV 210	Environmental Geology	3	
ENV 220QLWI	Environmental Analysis	3	
ENV 222WI	Environmental Biology	3	
ENV 380	Senior Seminar	2	
GEG 274CPQL	Introduction to GIS	3	
MAT 106	Trigonometry <i>or</i>	3/4	
MAT 115	Precalculus <i>or</i>		
MAT 181	Calculus I (4 credits)		
MAT 140QL	Applied Statistics <i>or</i>	3	
MAT 150	Biostatistics <i>or</i>		
PSY 200QL ¹	Stats. Soc./Behav. Sci. ¹		
PHY 040	General Physics I	4	
PHY 042	General Physics II	4	

C. Geography Track: 27 S.H.			
(select GEG 375 & 394, and 7 additional courses)			
Course #	Title	S.H.	Gr.
GEG 204/205	Meteorology & lab	3	
GEG 210	Env. Conservation	3	
GEG 212	Geog. of Natural Hazards	3	
GEG 232	Field Methods	3	
GEG 304/305	Weather Analysis & lab	3	
GEG 322	Climatology	3	
GEG 323	Global Warming...	3	
GEG 324/325	Geomorphology & lab	3	
GEG 330CPVL	Cartography	3	
GEG 333	Advanced GIS	3	
GEG 341	Environmental Planning	3	
GEG 343	Land Use Planning	3	
GEG 347	Remote Sensing of Env.	3	
GEG 372	Selected Topics (relevant)	3	
GEG 375²	Research Methods²	3	
GEG 394	Internship in Geography	3	

Notes:

1. PSY/POL/SOC 200 Statistics for the Social and Behavioral Sciences requires PSY 011 and MAT 017 or higher as prerequisites. These prerequisites must be taken in General Education.
2. A statistics course is prerequisite to GEG 375 Research Methods. Students must register in the Geography Dept. office since a GEG credit override is required.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • ENVIRONMENTAL SCIENCE/GEOLOGY

Program Code: ULASENVGO

Version Number: 2118

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE: ▲ MAT 140 or 150 (Note 1)	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: ▲ ENV 100	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ BIO/ENV 222WI	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: ▲ GEL/ENV 210	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE: ▲ GEG 010	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE: ▲ PSY/SOC 200 (Note 1)	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) <input type="checkbox"/>				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) <input type="checkbox"/>				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.
 ▲ Indicates the suggested placement in General Education of a required major course.

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE: ▲ Env. Sci. Restricted Elective (Note 2)	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE: ▲ Env. Sci. Restricted Elective (Note 2)	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: ▲ ENV 220QLWI	3			
COURSE: ▲ GEL200VL	3			
COURSE: ▲ GEG 274CP	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE ENVIRONMENTAL
SCIENCE/GEOLOGY TRACK**

V. MAJOR PROGRAM: 57 - 60 S.H.		
A. CORE REQUIREMENTS (12 S.H.)	Gr.	S.H. CAC
BIO 104 Principles of Biology (Note 3)		4
CHM 100 General Chemistry I		4
▲ ENV 100 Intro. to Env. Sci.		
▲ GEG 010 Physical Geography		
GEL 100 Physical Geology		4
B. COMMON COURSES (25 - 26 S.H.)		
BIO 106 Intro. To Zoology OR BIO 108 Intro. To Botany		4
CHM 102 General Chemistry II		4
CHM 214VL Organic Chemistry I OR CHM 204 Fund of Organic Chemistry		4
▲ ENV 210 Environmental Geology		
▲ ENV 220QLWI Environmental Analysis		
▲ ENV 222WI Environmental Biology		
ENV 380 Senior Seminar		2
▲ GEG 274CP Introduction to GIS		
MAT 106 Trigonometry OR MAT 115 Precalculus OR MAT 181 Calculus I		3/4
▲ (Note 1) MAT 140QL Applied Statistics OR PSY/SOC 200 Statistics (Note 4) OR MAT 150 Biostatistics		
PHY 040 Physics I &		4
PHY 042 Physics II OR		4
PHY 100 Physics I & PHY 102 Physics II		
C. ENVIRONMENTAL GEOLOGY TRACK (20 - 22 S.H.)		
GEL 102 Historical Geology		4
▲ GEL 200VL Field Geology		
GEL 304CT Structural Geology		4
GEL 358CI Gen. Geophysics		3
GEL 362QL Hydrogeology		3
GEL 2XX or 3XX Geology Elective		3/4
GEL or ENV 2XX or 3XX Elective		3/4
D. RESTRICTED ELECTIVES (Note 5)		
▲		
▲		

NOTES
1. Only one of these three courses will be taken. Depending on the course prefix, it will count in either I.C. or IV.B.2.
2. This ENG, WRI, or PHI course will be chosen from a list maintained by the Env. Sci. Committee and cross listed with V.D.
3. Grade of C or better for BIO 104 to be counted as a prerequisite
4. PSY 011 is a prerequisite for PSY 200.
5. Choice of courses made with advisor from a list maintained by Env. Sci. Committee.
6. A minimum of 120 S.H. are required for graduation.

▲ Indicates courses required for the major, but used to satisfy requirements of General Education.
The units for these courses are counted only under General Education.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • MAJOR

Program Code

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) CTI Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) CTI Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).
 * Excludes PAG 011 and PAG 012



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • MAJOR

Program Code

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) CTI Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) CTI Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • GEOLOGY

Program Code **ULASGEOS**

Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRi, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRi, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
GEOLOGY**

VI. MAJOR PROGRAM: 44 s.h.		
A. REQUIRED COURSES: 38 S.H.	Gr.	S.H.
GEL 100 Physical Geology		4
GEL 102 Historical Geology		4
GEL 200VL Field Geology		3
GEL 220CT Mineralogy		4
GEL 230WI Paleontology		3
GEL 304CT Structural Geology		4
GEL 316VL Petrology & Geochemistry		4
GEL 346WI Sedimentology & Stratigraphy		4
GEL 358CI Geophysics		3
GEL 362QL Hydrogeology		3
GEL 380WI Senior Seminar		2
B. ELECTIVE: 6 S.H.		
GEL 210 Environmental Geology		3
GEL 302 Economic Geology		3
GEL 324 Geomorphology		3
GEL 366 Marine Geology		3
GEL 368 Research in Geology I		1-3
GEL 369 Research in Geology II		1-3
GEL 371-373 Selected Topics		1-6
GEL 390 Internship in Geology		1-4
GEL 398 Honors Suppl. Research		1-3
TOTAL SEMESTER HOURS		
VII. CONCOMITANT COURSES: 26-29 S.H.		
A. CHEMISTRY: 8 S.H.	Gr.	S.H.
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
B. PHYSICS: 8 S.H.		
PHY 040 OR PHY 100		4
PHY 042 OR PHY 102		4
C. MATHEMATICS: 6-9 S.H.		
>>>>Option 1		
MAT 105 College Algebra		3
MAT 106 Trigonometry		3
MAT 171 Calculus I		3
>>>>Option 2		
MAT 115 Precalculus		3
MAT 171 Calculus I		3
>>>>Option 3		
MAT 171 Calculus I		3
MAT 172 Calculus II		3
D. BIOLOGY: 4 S.H.		
BIO 104 Principles of Biology		4

NOTES
*GEG 274 is strongly recommended to fulfill this category.
**PSY 011 & SOC 010 are prerequisites to most other courses in their respective disciplines.
***GEG -- Non-laboratory courses only allowed in this category.
A minimum of 120 s.h. are required for graduation.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • INFORMATION TECHNOLOGY

Program Code: ULASCSCIT

Version Number: 2118 – Fall 2011

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)

	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE: MAT140 (Suggested)	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)

	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM

	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)

	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science[#] (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEG (see note at right), GEL, MAR, MAT, NSE, or PHY				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE: WRI207WICT (Suggested)	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE: PHI40CDCT (Suggested)	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

[#] Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

BS Information Technology (60 CR)

Program Code: ULASCSCIT

Version Number: 2178 – Fall 2017

Effective Date: August 28, 2017

Major Program: 57 credits		
1. Required Courses: 33 credits	CR	GR
CSC 125: Discrete Math for CS I		
CSC 130: IT Fundamentals		
CSC 135: Comp Sci I		
CSC 136: Comp Sci II		
CSC 242: Web Programming		
CSC 253: IT Systems		
CSC 311: Computer Networks		
CSC 341: Information Security		
CSC 356: Introduction to Database Sys		
CSC 354: Software Engineering I		
CSC 355: Software Engineering II		

Concomitant Courses: 3 credits		
1. Required Courses: 3 credits	CR	GR
MAT 105: College Algebra or above		
MAT 140: Applied Stat Methods*	X	X
WRI 207: Writing for Workplace*	X	X
PHI 040: Intro to Ethics*	X	X
*accounted for in general education		
2. Internship – optional (Gen Ed free elective)	CR	GR
CSC 280: Cooperative Internship I	1-6	
CSC 380: Cooperative Internship II	1-6	

2. CS Elective Courses: 24 credits of additional CSC courses, number 200 or above and not previously used for above requirements.	CR	GR

Recommendations
Consider taking a Minor in an Application Domain such as Math, Entrepreneurial Leadership, Business, Psychology, Sociology, Biology, or any Science.
Consider taking a second speech course in General Education II E
CSC-prefix courses below 125-level, CSC 280 and CSC 380 do not count toward the major requirements for a BS in Computer Science/Information Technology (they can count in general education).
Before taking any 300-level course a student must have completed 18 credit hours in CSC courses numbered 125 or above with a GPA of 2.25 in the CSC courses.

Degree Requirements		
1. Semester Hours (Total: 120)	Req	Earned
a. General Education	60	
b. Major Program	57	
c. Concomitant Courses	3	
2. GPA		
a. Overall	2.0	
b. Major	2.25	
3. Passed Comprehensive Exam	Semester:	



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • MARINE SCIENCE/BIOLOGY

Program Code **ULASMARBI**

Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
MARINE SCIENCE/BIOLOGY TRACK**

VI. MAJOR PROGRAM: 42-43 S.H.		
A. Required MAR: 27 S.H. (Notes 1-4)	Gr.	S.H.
MAR 110 Intro. To Oceanography		3
MAR 226 Marine Biology		3
Method-Intensive Field Course (Note 3)		3
MAR 2xx Sophomore Seminar		1
MAR 364 Physical Oceanography		3
MAR 366 Marine Geology		3
MAR 370 Research in Mar. Sci OR MAR 390 Internship in Mar. Sci.		3
MAR 380 Senior Seminar		2
Science Elective (Note 4)		3
Science Elective (Note 4)		3
B. Required BIO: 15-16 S.H. (Notes 1, 2)		
BIO 224 Applied Environ. Micro.		3
BIO/MAR Organism course 200 level or above, such as BIO/MAR 342 Ichthyology, MAR 260 Marine Invertebrates		3
BIO/MAR Ecology course 200 level or above, such as BIO/MAR 326 Marine Ecol or BIO/MAR 320 Physio. Ecology		3
BIO physiology course 200 level or above, such as BIO 300 Comp. Animal Physiology or BIO/MAR 320 Physiological Ecology		3
BIO 108 Botany or BIO elective 200-level or above		3-4
VII. CONCOMITANT COURSES: 44-45 S.H.		
A. BIOLOGY 8 S.H.		
BIO 104 Principles of Biology		4
BIO 106 Intro. to Zoology		4
B. CHEMISTRY: 15-16 S.H.		
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
CHM 214VL Organic Chemistry I		4
CHM 216WI Organic Chem. II OR CHM 220QLWI Environmental Analysis		3
C. GEOGRAPHY: 3 S.H.		
GEG 204 Meteorology OR GEG 274QL Geo. Info. Sys. I OR GEG 347 Remote Sensing		3
D. GEOLOGY: 4 S.H.		
GEL 100 Physical Geology		4
E. MATHEMATICS: 6 S.H.		
MAT 140QL Applied Statistics OR PSY 200QL Stats. Soc. & Behav. Sci. (Note 5)		3
MAT 106 Trigonometry OR MAT 115 Precalculus OR MAT 171 Calculus I or higher		3
F. PHYSICS: 8 S.H.		
PHY 040 General Physics I OR PHY 100 Physics I		4
PHY 042 General Physics II PHY 102 Physics II		4

NOTES
**PSY 011 & SOC 010 are prerequisites to most other courses in their respective disciplines.
***GEG -- Non-laboratory courses only allowed in this category.
1. Required courses may be used to satisfy Gen. Ed. Cat. IV, A, B, C, D and/or Cat. V.
2. Courses in this category may be used to satisfy the minimum of 9 SH that must be taken at the Marine Science Consortium, Wallops Island, VA. However, students are encouraged to take more courses at the MSC to fulfill the electives.
3. Methods courses are offered at the Marine Science -- be approved by the MAR Program Coordinator.
4. Biology or Physical Science course at 200 level or above.
5. PSY 011 is a prerequisite for PSY 200.
6. A minimum of 120 s.h. are required for graduation.

Program Code: ULASMARBI
Effective Date of Program: Fall 2011
Reviewed: 10/2010



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • MARINE SCIENCE/OCEANOGRAPHY

Program Code **ULASMAROC**

Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
MARINE SCIENCE/OCEANOGRAPHY TRACK**

VI. MAJOR PROGRAM: 48-49 S.H.		
A. Required MAR: 27 S.H. (Notes 1-4)	Gr.	S.H.
MAR 110 Intro. To Oceanography		3
MAR 226 Marine Biology		3
Method-Intensive Field Course (Note 3)		3
MAR 2xx Sophomore Seminar		1
MAR 364 Physical Oceanography		3
MAR 366 Marine Geology		3
MAR 370 Research in Mar. Sci OR MAR 390 Internship in Mar. Sci.		3
MAR 380 Senior Seminar		2
Science Elective (Note 4)		3
Science Elective (Note 4)		3
B. PHYSICAL SCIENCE: 21-22 S.H. Notes 1, 2		
Physical science course 100 level or higher		3 or 4
Physical science 200 level or higher		3 or 4
Physical science 200 level or higher		3 or 4
Physical science 200 level or higher		3 or 4
Physical science 200 level or higher. Waived if four 4 credit courses in VIB.		3
Science or Math Elective (Note 5)		3
Science or Math Elective (Note 5)		3
VII. CONCOMITANT COURSES: 37 S.H.		
A. BIOLOGY: 8 S.H.		
BIO 104 Principles of Biology		4
BIO 106 Intro. To Zoology OR BIO 108 Intro. To Botany (Note 6)		4
B. CHEMISTRY: 8 S.H.		
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
C. GEOGRAPHY: 3 S.H.		
GEG 204 Meteorology OR GEG 274QL Geo. Info. Sys. I OR GEG 347 Remote Sensing		3
D. GEOLOGY: 4 S.H.		
GEL 100 Physical Geology		4
E. MATHEMATICS: 6 S.H.		
MAT 140QL Applied Statistics OR PSY 200QL Stats. Soc. & Behav. Sci. (Note 7)		3
MAT 171 Calculus I or higher		3
F. PHYSICS: 8 S.H.		
PHY 040 General Physics I OR PHY 100 Physics I		4
PHY 042 General Physics II PHY 102 Physics II		4

NOTES	
**PSY 011 & SOC 010 are prerequisites to most other courses in their respective disciplines.	
***GEG -- Non-laboratory courses only allowed in this category.	
1. Required courses may be used to satisfy Gen. Ed. Cat. IV, A, B, C, D and/or Cat. V.	
2. Courses in this category may be used to satisfy the minimum of 9 SH that must be taken at the Marine Science Consortium, Wallops Island, VA. However, students are encouraged to take more courses at the MSC to fulfill the electives in this program.	
3. Methods courses are offered at the Marine Science Consortium and must be approved by the MAR Program Coordinator	
4. Physical Science or biology course at 200 level or above.	
5. Physical science elective at the 200 level or above or MAT 172, 273 or 340.	
6. Zoology Recommended.	
7. PSY 011 is a prerequisite for PSY 200.	
8. A minimum of 120 s.h. are required for graduation.	

Program Code: ULASMAROC
Effective Date of Program: Fall 2011
Reviewed: 10/2010



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • MATHEMATICS

Academic Plan: **ULASMATS**

Version 2118-Fall 2011

Effective Date: **August 29, 2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: CHM 100 OR PHY 100 (suggested)	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE: WRI 205 (suggested)	3			WI
COURSE: MAT 224 (suggested)	3			WI
COURSE: MAT 380 (suggested)	3			WI
B. Quantitative Literacy (QL) (3 credits) CTI Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) CTI Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE: PHI 140CT (suggested)	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: CHM 102 OR PHY 102 (suggested)	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: BIO	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE: WRI 205WI (suggested)	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE: PHI 140CT (suggested)	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • MATHEMATICS

Academic Plan: ULASMATS

Version 2118-Fall 2011

Effective Date: August 29, 2011

PROGRAM REQUIREMENTS FOR B.S. IN MATHEMATICS

Major Program: 48 cr			
1. Core Courses: 27 cr	CR	GR	CAC
MAT 181: Calculus I	4		
MAT 182: Calculus II	4		
MAT 224: Foundations Higher Math	3		WI
MAT 260: Linear Algebra I	3		
MAT 283: Calculus III	4		
MAT 301: Probability & Statistics I	3		
MAT 311: Abstract Algebra I	3		
MAT 380: Seminar in Math	3		WI

Specialization I: Pure Mathematics			
2. Required Courses: 12 cr	CR	GR	CAC
Choose four courses from the following:			
MAT 312: Abstract Algebra II			
MAT 330: Theory of Numbers			
MAT 351: Real Analysis I			
MAT 352: Real Analysis II			
MAT 400: Complex Variables			
MAT 431: Topology			

Specialization I: Applied Mathematics			
2. Required Courses: 12 cr	CR	GR	CAC
Choose four courses from the following:			
MAT 302: Probability & Statistics II			
MAT 332: Numerical Analysis			
MAT 340: Differential Equations I			
MAT 361: Operations Research I			
MAT 362: Operations Research II			
MAT 403: Analysis of Data Sets			

Requirements for an Operations Research Certificate: MAT 361 & 362*

Requirements for a Statistics Certificate: MAT 301, 302 & 403*

* Grades in these courses must be a B or above in order to receive a certificate.

NOTE: Internal Transfer: 2.25 GPA needed

General Electives in Mathematics: 9 cr			
Any three additional MAT courses, at least two at the 300-level or higher	CR	GR	CAC

Please see the list of electives and proposed schedule for times and semesters each elective will be offered.

Free Electives (Not counted towards Gen Ed): 15 cr			
Any five additional courses	CR	GR	CAC

Students are encouraged to consider a minor in a subject area of their choice. Courses for a minor may be counted here.

The required courses below must be taken and count towards General Education. The appropriate General Education section for each course is listed on the reverse side.

Required General Education Courses: 20 cr			
1. Natural Science Choose (a) or (b) 8 cr	CR	GR	CAC
(a) CHM 100: General Chemistry I			
CHM 102: General Chemistry II			
(b) PHY 100: Physics I			
PHY 102: Physics II			
2. Humanities 6 cr			
PHI 140CT: Symbolic Logic			CT
WRI 205WI: Scientific Writing			WI
3. Free Electives 6 cr			
CSC 135: Computer Science I			
CSC 136CP: Computer Science II or higher			
4. Internship – optional			
MAT 280: Cooperative Internship			

ADDITIONAL NOTES: 120 credits are required to graduate



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • PHYSICS

Program Code **ULASPHYS**

Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) **RC** **CR** **GR**

A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits) **RC** **CR** **GR** **CAC**

A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM **RC** **CR** **GR** **CAC**

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) ¶¶ Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) ¶¶ Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits) **RC** **CR** **GR** **CAC**

A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

C. Humanities (9 credits): Choose one course in each subcategory. **RC** **CR** **GR** **CAC**

1. Elective: PAG*, ENG, WRi, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRi, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
PHYSICS**

V. MAJOR PROGRAM: 57 S.H.		
A. CORE: 42 S.H.	Gr.	S.H.
PHY 100 Physics I		4
PHY 102 Physics II		4
PHY 212 Modern Physics I		3
PHY 214 Modern Physics II		3
PHY 220WI Electronics		3
PHY 230 Optics		3
PHY 245 Mathematical Physics I		3
PHY 312CT Classical Mechanics I		4
PHY 315WI Advanced Lab		3
PHY 316QL Electricity and Magnetism I		3
PHY 327 Thermo. and Stat. Mech.		3
PHY 340 Computational Physics		3
PHY 380CMWI Senior Seminar		3
B. PHYSICS TRACK (REQUIRED): 9 S.H.		
PHY 345 Mathematical Physics II		3
PHY 350 Instrumentation in Physics		3
PHY 360 Quantum Mechanics I		3
C. PHYSICS TRACK (ELECTIVES): 6 S.H.		
PHY 290 Intro. To Nanotechnology		3
PHY 314 Classical Mechanics II		3
PHY 318 Electricity and Magnetism II		3
PHY 361 Quantum Mechanics II		3
PHY XXX Any PHY course above 300		3
AST XXX Any AST course above 100		3
EGR XXX Any EGR course above 100		3
GEL 358CI General Geophysics		4
VI. CONCOMITANT COURSES: 27 S.H.		
A. CHEMISTRY: 8 S.H.		
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
B. MATHEMATICS: 15 S.H.		
MAT 181 Calculus I		4
MAT 182 Calculus II		4
MAT 283 Calculus III		4
MAT 340 Differential Equations		3
C. BIOLOGY: 4 S.H.		
BIO 104 Principles of Biology		4

NOTES
1. A minimum of 120 s.h. are required for graduation.
2. Students must discuss with their advisors which electives would best serve their future career goals before choosing them.
3. Students completing MAT 224 and MAT 260 are eligible for a Math Minor.

Program Code: ULASPHYS
 Effective Date of Program: Spring 2012
 Version Number: 2122
 Reviewed: 10/2011



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • PHYSICS/ASTRONOMY

Program Code **ULASPHYAS**

Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)

	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)

	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM

	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)

	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
PHYSICS / ASTRONOMY TRACK**

V. MAJOR PROGRAM: 57 S.H.		
A. CORE: 42 S.H.	Gr.	S.H.
PHY 100 Physics I		4
PHY 102 Physics II		4
PHY 212 Modern Physics I		3
PHY 214 Modern Physics II		3
PHY 220WI Electronics		3
PHY 230 Optics		3
PHY 245 Mathematical Physics I		3
PHY 312CT Classical Mechanics I		4
PHY 315WI Advanced Lab		3
PHY 316QL Electricity and Magnetism I		3
PHY 327 Thermo. and Stat. Mech.		3
PHY 340 Computational Physics		3
PHY 380CMWI Senior Seminar		3
B. ASTRONOMY TRACK: 15 S.H.		
PHY 360 Quantum Mechanics I		3
AST 140QL Planetary Science		3
AST 142 Stellar & Galactic Astronomy		3
AST 342 / PHY 342 Astrophysics		3
AST XXX Any AST course above 200		3
VI. CONCOMITANT COURSES: 27 S.H.		
A. CHEMISTRY: 8 S.H.		
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
B. MATHEMATICS: 15 S.H.		
MAT 181 Calculus I		4
MAT 182 Calculus II		4
MAT 283 Calculus III		4
MAT 340 Differential Equations		3
C. BIOLOGY: 4 S.H.		
BIO 104 Principles of Biology		4

NOTES
1. A minimum of 120 s.h. are required for graduation. 2. Students must discuss with their advisors which electives would best serve their future career goals before choosing them. 3. Students completing MAT 224 and MAT 260 are eligible for a Math Minor.

Program Code: ULASPHYAS
 Effective Date of Program: Spring 2012
 Version Number: 2122
 Reviewed: 10/2011



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • PHYSICS/ENGINEERING PHYSICS

Program Code **ULASPHYEP**

Effective Date: **08/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

**LIBERAL ARTS AND SCIENCES: BACHELOR OF SCIENCE
PHYSICS / ENGINEERING PHYSICS TRACK**

V. MAJOR PROGRAM: 57 S.H.		
A. CORE: 42 S.H.	Gr.	S.H.
PHY 100 Physics I		4
PHY 102 Physics II		4
PHY 212 Modern Physics I		3
PHY 214 Modern Physics II		3
PHY 220WI Electronics		3
PHY 230 Optics		3
PHY 245 Mathematical Physics I		3
PHY 312CT Classical Mechanics I		4
PHY 315WI Advanced Lab		3
PHY 316QL Electricity and Magnetism I		3
PHY 327 Thermo. and Stat. Mech.		3
PHY 340 Computational Physics		3
PHY 380CMWI Senior Seminar		3
B. ENGINEERING PHYSICS TRACK: 15 S.H.		
PHY 350 Instrumentation in Physics		3
EGR 121 Drawing and Lettering		3
EGR 130 Engineering Mechanics		3
EGR 230 Strength of Materials		3
EGR 330 Fluid Mechanics		3
VI. CONCOMITANT COURSES: 27 S.H.		
A. CHEMISTRY: 8 S.H.		
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
B. MATHEMATICS: 15 S.H.		
MAT 181 Calculus I		4
MAT 182 Calculus II		4
MAT 283 Calculus III		4
MAT 340 Differential Equations		3
C. BIOLOGY: 4 S.H.		
BIO 104 Principles of Biology		4

NOTES
1. A minimum of 120 s.h. are required for graduation.
2. Students completing MAT 224 and MAT 260 are eligible for a Math Minor.

Program Code: ULASPHYEP
 Effective Date of Program: Spring 2012
 Version Number: 2122
 Reviewed: 10/2011



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • PSYCHOLOGY

Plan Code: ULASPSYCC

Version Number: 2118

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

Note: MAT 003 and ENG 022 may only count as a free elective in II. E. or IV. D.

Plan: ULASPSYCC
 Program #: 26425
 Effective: August 29, 2011

Bachelor of Science -- PSYCHOLOGY - CLINICAL/COUNSELING TRACK

MAJOR PROGRAM (42-51 Semester Hrs.)		
A. PSYCHOLOGY CORE (24 Sem. Hrs.)	Gr.	S.H.
1. Foundation Courses* (with a C or better):		
PSY 011 - General Psychology		
PSY 200 - Statistics for Social & Behavioral Sciences		
PSY 270 - Experimental Psychology		
2. Track Courses:		
PSY 202 - Psychology of Personality		
PSY 250 - Abnormal Psychology		
3. Advanced Courses:		
PSY 310 - Principles of Measurement		
PSY 379 - History & Systems		
PSY 380 - Senior Seminar		
B. Required Areas (9 Sem. Hrs.) A minimum of 1 course from each area.		
AREA 1** PSY 110 - Child Psychology		
PSY 120 - Adolescent Psychology		
PSY 125 - Lifespan Psychology		
AREA 2 PSY 311 - Learning, Motivation & Emotion		
PSY 340 - Cognitive Psychology		
AREA 3 PSY 312 - Sensation & Perception		
PSY 325 - Physiological Psychology		
C. Advanced Psychology Electives (6 Sem. Hrs.) <i>Choose from:</i>		
PSY 305 - Practicum in Psychology		
PSY 331 - Health Psychology		
PSY 360 - Clinical Psychology		
PSY 363 - Clinical Internship		
PSY 370 - Selected Research Topics		
PSY 375 - Psychotherapy		
PSY 429 - Behavior Modification		
PSY 432 - Neuropsychology		
D. Psychology Electives (3 - 12 Sem. Hrs.) If more than 3, the other 3 to 9 credits go under General Education Section II or IV.		

E. Concomitant Courses (9 Sem. Hrs.)	Gr.	S.H.
Select 100 level and above courses. Choose from ANT, CRJ, SOC, Intermediate Spanish or higher, SWK.		

F. Free Electives, except PSY (9 Sem. Hrs.)		

Notes:

* Completion recommended before earning more than 75 credits.

** A maximum of 6 credits from PSY 110, PSY 120, and PSY 125 may count toward graduation.

Note: An absolute maximum of 51 hours of Psychology may be counted toward graduation requirements.

Psychology majors with less than 90 credits completed must maintain an overall Q.P.A. (that is, averaged over all courses) of 2.25 or higher each semester to remain in the major.

120 credits are required to graduate.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • PSYCHOLOGY

Program Code: ULASPSYGE

Version Number: 2118

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) <input type="checkbox"/>				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) <input type="checkbox"/>				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRi, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRi, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A. or IV.A).

* Excludes PAG 011 and PAG 012

PLAN: ULASPSYGE

Program #: 26425

Effective: August 29, 2011

Bachelor of Science -- PSYCHOLOGY - GENERAL TRACK

MAJOR PROGRAM (42-51 Semester Hours)		
A. PSYCHOLOGY CORE (18 Sem. Hrs.)	Gr.	S.H.
1. Foundation Courses* (with a C or better):		
PSY 011 - General Psychology		
PSY 200 - Statistics for Social & Behavioral Sciences		
PSY 270 - Experimental Psychology		
2. Advanced Courses:		
PSY 310 - Principles of Measurement		
PSY 379 - History & Systems		
PSY 380 - Senior Seminar		
B. Required Areas (12 Sem. Hrs.)		
A minimum of 1 course from each area		
AREA 1**	PSY 110 - Child Psychology	
	PSY 120 - Adolescent Psychology	
	PSY 125 - Lifespan Development	
AREA 2	PSY 311 - Learning, Motivation & Emotion	
	PSY 340 - Cognitive Psychology	
AREA 3	PSY 312 - Sensation & Perception	
	PSY 325 - Physiological Psychology	
AREA 4	PSY 202 - Psychology of Personality	
	PSY 240 - Social Psychology	
	PSY 250 - Abnormal Psychology	
C. Advanced Psychology Electives (3 Sem. Hrs.)		
(Any 300 or 400 level psychology course)		
D. Psychology Electives (9-18 Sem. Hrs.)		
If more than 9 hours, the other 3 to 9 credits go under General Education Section II or IV.		

E. Concomitant Courses (9 Sem. Hrs.)	Gr.	S.H.
(100 level & above courses, excluding psychology)		

F. Free Electives, except PSY (9 Sem. Hrs.)		

Notes:

* Completion recommended before earning more than 75 credits.

** A maximum of 6 credits from PSY 110, PSY 120, and PSY 125 may count toward graduation.

Note: An absolute maximum of 51 hours of Psychology may be counted toward graduation requirements.

Psychology majors with less than 90 credits completed must maintain an overall Q.P.A. (that is, averaged over all courses) of 2.25 or higher each semester to remain in the major.

120 credits are required to graduate.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • PSYCHOLOGY

Plan Code: ULASPSYIO

Version Number: 2148

Effective Date: January 21, 2014

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

Note: MAT 003 and ENG 022 may only count as a free elective in II. E. or IV. D.

Plan Code: ULASPSYIO
 Program #: 26430
 Effective: January 21, 2014

Bachelor of Science -- PSYCHOLOGY - INDUSTRIAL/ORGANIZATIONAL TRACK

MAJOR PROGRAM (42-51 Semester Hrs.)		
A. PSYCHOLOGY CORE (24 Sem. Hrs.)		
1. Foundation Courses * (with a C or better):		
PSY 011 - General Psychology		
PSY 200 - Statistics for Social & Behavioral Sciences		
PSY 270 - Experimental Psychology		
2. Track Courses:		
PSY 220 - Industrial & Organizational		
PSY 240 - Social Psychology		
3. Advanced Courses:		
PSY 310 - Principles of Measurement		
PSY 379 - History & Systems		
PSY 380 - Senior Seminar		
B. Required Areas (9 Sem. Hrs.)		
A minimum of 1 course from each area		
AREA 1**	PSY 110 - Child Psychology	
	PSY 120 - Adolescent Psychology	
	PSY 125 - Lifespan Development	
AREA 2	PSY 311 - Learning, Motivation & Emotion	
	PSY 340 - Cognitive Psychology	
AREA 3	PSY 312 - Sensation & Perception	
	PSY 325 - Physiological Psychology	
C. Advanced Psychology Electives (6 Sem. Hrs.)		
Choose from:		
	PSY 305 - Practicum in Psychology	
	PSY 333 - Leadership in Organizations	
	PSY 336 - Diversity in Organizations	
	PSY 350 - Personnel Psychology	
	PSY 351 - Organizational Psychology	
	PSY 355 - Org. Dev. & Change	
	PSY 362 - I/O Internship	
	PSY 370 - Selected Research Topics	
D. Psychology Electives (3-12 Sem. Hrs.)		
If more than 3, the other 3 to 9 credits go under General Education Section II or IV.		

E. Concomitant Courses (9 Sem. Hrs.)		
Select from the following prefixes or courses: Must be 100 level or above. ACC, BUS, MGM, MKT, POL 316, POL 347, SOC 227, SOC 270, SOC 271, COM 125, COM 274, COM 350, PRO 100, PRO 110, PRO 120, PRO 130. <i>NOTE: ACC, BUS, MGM, MKT are difficult to get into; PRO are Business courses designed for non-Business Majors.</i>		
	Gr.	S.H.

F. Free Electives, except PSY (9 Sem. Hrs.)		

Notes:

- * Completion recommended before earning more than 75 credits.
- ** A maximum of 6 credits from PSY 110, PSY 120, and PSY 125 may count toward graduation.
- Note: An absolute maximum of 51 hours of Psychology may be counted toward graduation requirements.*

Psychology majors with less than 90 credits completed must maintain an overall Q.P.A. (that is, averaged over all courses) of 2.25 or higher each semester to remain in the major.

120 credits are required to graduate.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • PSYCHOLOGY

Plan Code: ULASPSYPL

Version Number: 2118

Effective Date: August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits)				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits)				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

Note: MAT 003 and ENG 022 may only count as a free elective in II. E. or IV. D.

Bachelor of Science -- PSYCHOLOGY with PARALEGAL STUDIES

MAJOR PROGRAM (39-51 Semester Hours)		
A. PSYCHOLOGY CORE (18 Sem. Hrs.)	Gr.	S.H.
1. Foundation Courses* (with C or better):		
PSY 011 - General Psychology		
PSY 200 - Statistics for Social & Behavioral Sciences		
PSY 270 - Experimental Psychology		
2. Track Courses:		
PSY 217 - Psychology & Law		
3. Advanced Courses:		
PSY 379 - History & Systems		
PSY 380 - Senior Seminar		
B. Required Areas (12 Sem. Hrs.)		
<i>A minimum of 1 course from each area</i>		
AREA 1**	PSY 110 - Child Psychology	
	PSY 120 - Adolescent Psychology	
	PSY 125 - Lifespan Development	
AREA 2	PSY 311 - Learning, Motivation & Emotion	
	PSY 340 - Cognitive Psychology	
AREA 3	PSY 312 - Sensation & Perception	
	PSY 325 - Physiological Psychology	
AREA 4	PSY 202 - Psychology of Personality	
	PSY 240 - Social Psychology	
	PSY 250 - Abnormal Psychology	
C. Psychology Electives (9-21 Semester Hours)		
If more than 9 hours, the other 3 to 12 credits go under General Education Section II or IV.		

D. Paralegal Studies (21 Sem. Hrs.)	Gr.	S.H.
Required: (18 Semester Hrs.)		
PLG 120 - Intro. to Paralegal Studies		
PLG 150 - Torts & Personal Injury		
PLG 200 - Civil Litigation & Procedure		
PLG 215 - Law Office Management		
PLG 220 - Contract Law and Business Organizational Law		
PLG 245 - Legal Research & Writing		
Select one of the following courses: (3 Sem. Hrs.)		
PLG 125 - Workers' Comp Practice		
PLG 130 - Soc. Sec. Disab. Prac. (2)*		
PLG 135 - Interviewing for Paralegal (1)*		
PLG 225 - Immigration Law for Paralegals		
PLG 230 - Estates & Trusts		
PLG 235 - Family Law		
PLG 240 - Bankruptcy Law		
PLG 250 - Legal Internship		
PLG 250 - Legal Writing		
PLG 220 - Contract Law and		
* PLG - Non-three (3) credit PLG courses must be taken together in the same semester to total 3 credits.		

Paralegal Studies courses are taken through Lehigh-Carbon Community College as part of a cooperative program. PLG courses may only be transferred to KU by students who complete this special KU-LCCC program.

Notes:

* Completion recommended before earning more than 75 credits.

** A maximum of 6 credits from PSY 110, PSY 120, and PSY 125 may count toward graduation.

Note: An absolute maximum of 51 hours of Psychology may be counted toward graduation requirements.

Psychology majors with less than 90 credits completed must maintain an overall Q.P.A. (that is, averaged over all courses) of 2.25 or higher each semester to remain in the major.

120 credits are required to graduate.



COLLEGE OF LIBERAL ARTS & SCIENCES • BS • PUBLIC ADMINISTRATION

Program Code ULASPUB

Version Number: Fall 2011

Effective Date: 08/29/2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEG (see note at right), GEL, MAR, or PHY				
COURSE:	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEG (see note at right), GEL, MAR, MAT, NSE, or PHY				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: ANT, GEG (see note at right), HIS, or POL				
COURSE:	3			
2. Elective: CRJ, PSY, SOC, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: ENG, HUM, PAG*, or WRI				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE:	3			
3. Elective: ENG, HUM, Modern Language (103 or above), PAG*, PHI or WRI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).
 * Excludes PAG 011 and PAG 012

B.S. Public Administration

Program Code: ULASPUB effective Fall 2013
 General Education effective Fall 2011

B. MAJOR PROGRAM: 45 CR

1. Required Courses: 39 CR	GR	CR
POL 010 American Government OR		
POL 050 State & Local Government		3
POL 101 Soc. Research Des. & Writing		3
POL 115 Public Administration		3
POL 201 Empirical Political Analysis		3
POL 225 Planning & Decision Making		3
POL 346 Pub. Budgeting & Fis. Mgmt.		3
POL 347 Human Resource Mgmt.		3
POL 381 Senior Seminar		3
POL 390 Government Internship		12
POL 425 Public Policy Making		3
2. Major Electives: 6 CR		
POL		3
POL		3

C. CONCOMITANT COURSES: 3 CR	GR	CR
Computer Literacy (Any CSC, BUS 171, GEG 274, or GEG 333)		3

D. A&S ELECTIVES: 12 CR	GR	CR
Select courses in Arts & Sciences disciplines except POL courses.		

Notes:

Any Required Courses, Major Electives or Concomitant Courses taken as part of General Education may be cross-listed to meet requirements under Sections B and C. However, do not count the credit hours twice in the calculation of the 120 CR minimum for the degree. Semester hour deficiencies resulting from such cross-listing of courses may be made up by increasing the credit hours in Section D.

Please select the Concomitant Courses in Computer Science in consultation with your advisor.



COLLEGE OF LIBERAL ARTS & SCIENCES • BSW • MAJOR

Program Number: **ULASSWKW**

Effective Date: **8/29/2011**

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE: physical science suggested	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: PSY11 suggested	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRi, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: POL10 suggested	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE: SWK200 suggested	3			WI
COURSE: SWK255 suggested	3			WI
COURSE: SWK382 suggested	3			WI
B. Quantitative Literacy (QL) (3 credits) CTI Computer-Intensive (CP) (3 credits)				
COURSE: SWK360 suggested	3			
C. Visual Literacy (VL) (3 credits) CTI Communication-Intensive (CM) (3 credits)				
COURSE: SWK200 suggested	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE: SWK255 suggested	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE: SWK382 suggested	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE: BIO12 suggested	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE: ANT10 suggested	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE: PSY200 suggested if no MAT140	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE: ECO10 or ECO11 suggested	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRi, or HUM				
COURSE:	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE: PHI suggested	3			
3. Elective: PAG*, ENG, WRi, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE: SOC10 suggested	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

B. S. W. Social Work

Department of Social Work

120 S.H. (minimum)

Program #	ULASSWKW
Version #	2172
Effective:	Spring 2017
Check Sheet Revised:	3/16

B. MAJOR PROGRAM: 48 S.H.

1. Required Courses: 39 S.H.	GR	SH
a. INTRODUCTORY COURSES: 12		
SWK 100 Intro. SWK, Soc.Welfare		3
SWK 130 Poverty, Social Welfare		3
SWK 160 HBSE		3
SWK 200 Professional Context		3
b. PRACTICE COURSES: 15		
SWK 250 Practice I: Individuals		3
SWK 255 Social Welfare Policy		3
SWK 265 Pract. II: Groups, Families		3
SWK 280 Pract. III: Comm.,Organ.		3
SWK 360 Social Work Research		3
c. FIELD INSTRUCTION I: 3		
SWK 381		3
SWK 491		3
d. PROFESSIONAL SEMINAR I: 3		
SWK 382		3
SWK 492		3
e. FIELD INSTRUCTION II: 3		
SWK 383		3
SWK 493		3
f. PROFESSIONAL SEMINAR II: 3		
SWK 384		3
SWK 494		3
2. Electives: 9 S.H.		
Select any 3 SWK courses not listed above		

C. CONCOMITANTS: 12 CR.

Select four courses relevant to the social work major with the advisor's approval.

		3
		3
		3
		3

NOTES:

Please consult advisor regarding prerequisites, sequencing, and course offerings.

Social Work majors conduct themselves consistent with the NASW *Code of Ethics*. Students who violate the ethical standards and/or demonstrate behavioral problems may be dismissed from the major program.

*Social work students may take **one elective (SWK285 or 320)** concurrent with SWK250.

A grade of "C" or better is required in all SWK courses.

D. GENERAL EDUCATION REQUIRED

	GR	C.R.
a. PSY11		X
b. PSY125		X
c. SOC10		X
d. BIO12 or [BIO10+(BIO140 or 130)]		X
e. Any PHI course		X
f. ANT10		X
g. POL10		X
h. ECO10 or ECO11		X
i. MAT140 or PSY200		X
TOTAL SEMESTER HOURS: Minimum 120		
1. a. General Education (60 S.H.)		
b. Major Program (48 S.H.)		
c. Concomitant Courses (12 S.H.)		
d. General Education Required Courses		
2. GPA: Overall (2.00 minimum) Y N		
Major (2.00 minimum) Y N		
3. Passed Comprehensive Exam: Y N		
4. Cleared for Graduation (term/yr):		
a. Dept. Advisor (Initial/Date)		
b. Dept. Chair (Initial/Date)		

Minor Program: Actuarial Science Minor

Program code: ULASMATAS2 Version number: 2168 Effective date: 8/22/2016

Kutztown University

Minor Program: 18cr*			
1. Required Courses-12cr	Prerequisites	Gr	SH
MAT 301: Probability & Stats I	MAT 224 & MAT 283	3	
MAT 305: Mathematics of Finance I	MAT 283	3	
ECO 11: Principles of Macroeconomics		3	
ECO 12: Principles of Microeconomics		3	
2. Elective Courses: 6 cr			
ECO 205: Intermediate Microeconomics	ECO 12	3	
ECO 210: Intermediate Macroeconomics	ECO 11	3	
MAT 302: Probability & Stats II	MAT 301	3	
MAT 306: Mathematics of Finance II	MAT 305	3	
MAT 372: Independent Study and/or Project in Mathematics**		3	
MAT 403: Data Analysis	MAT 302	3	

*For the Actuarial Science Minor:

- No student may count more than three courses from their major program check sheet.
- A student must take at least one course at the 200 level or above from a department outside of their major.

**To count MAT 372 in this minor:

- The topics should be related to Probability & Statistics, Mathematics of Finance, and/or Economics.

Anthropology Minor Program

Department of Anthropology & Sociology (18
S.H. minimum)

Program: ULASANTPH2
Program Effective: August 22, 2014
Check Sheet Reviewed: March 2013

I. Required Courses: 9 S.H.	GR	SH
Select TWO of the following four courses:		
ANT 010 Cultural Anthropology		3
ANT 020 Physical Anthropology		3
ANT 030 Intro to Archaeology		3
ANT 040 Language and Culture		3
Select ONE of the following courses:		
ANT 201 Archaeol. Theory & Technique		3
ANT 202 Research Methd in Phys. Anthro		3
ANT 320 Archaeol. Field Methods		3
ANT 335 Ethno Research Methods		3
ANT 360 History & Theory of Anth.		3
ANT 380 Senior Seminar		3
ANT 390 Internship		3

II. Electives: 9 S.H.	GR	SH
ANT 010 Cultural Anthropology		3
ANT 020 Physical Anthropology		3
ANT 030 Intro to Archaeology		3
ANT 040 Language and Culture		3
ANT 101 North American Indian		3
ANT 102 South American Indian		3
ANT 105 Classical Archaeology		3
ANT/SOC/HIS 106 History & Cult Of Turkey		3
ANT 115 Communitarian Societies		3
ANT 131 New World Archaeology		3
ANT 135 PA German Cultural Tradition		3
ANT 136 Pennsylvania Archaeology		3
ANT 138 Caribbean Cultures		3
ANT 165 The Muslim Middle East		3
ANT 171 India & South Asia		3
ANT 180 Pacific & Australia		3
ANT 190 Cultural Diversity in PA		3
ANT 201 Archaeol. Theory & Technique		3
ANT 202 Research Methd in Phys. Anthro		3
ANT 212 Shamans, Witches and Magic		3
ANT/SOC 213 World Religions		3
ANT 215 Gender Across Cultures		3
ANT 218 Culture and Consumption		3
ANT 220 Economic Anthropology		3
ANT 224 Anthropology Of Death & Dying		3
ANT 226 Anthropology & Education		3
ANT 227 Work and Workplaces		3
ANT/SOC 232 Marriage In Cr-Cult. Persp.		3

II. Electives: 9 S.H. (cont)	GR	SH
ANT 239 Historical Archaeology		3
ANT 240 World Prehistory		3
ANT/SOC 241 Race & Ethnicity		3
ANT 242 Museums, Festivals, Cult. Events		3
ANT 245 Language & Identity		3
ANT/SOC 246 Globalization & Devel.		3
ANT 254 Medical Anthropology		3
ANT 258 Forensic Anthropology		3
ANT 260 Applied & Practicing Anth.		3
ANT 262 Hate Across Cultures		3
ANT 272 Human Heredity		3
ANT 273 Primate Studies		3
ANT 274 Human Origins		3
ANT 285 Millenarian Movements		3
ANT/PSY 290 Culture & Personality		3
ANT 320 Archae. Field Methods		3
ANT 321 Advan. Arch. Field Methds		3
ANT 335 Ethno Resrch Methods in Ant		3
ANT 360 History & Theory of Anthro.		3
ANT 370 Readings in Anthropology		3
ANT 371 Selected Topics in Anthro.		3
ANT 379 Independent Study		3
ANT 380 Senior Seminar		3
ANT 390 Internship in Anthro. I		3
ANT 391 Internship in Anthro. II		3

Minor Program: Biochemistry Department of Physical Sciences (24 S.H. minimum)	Program #	ULASBIOCH2
	Version #	2058
	Effective:	Fall 2005
	Check Sheet Reviewed:	2/05

1. Required Courses: 24 S.H.	GR.	S.H.
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
CHM 214VLOrganic Chemistry I		4
CHM 216WI Organic Chemistry II		4
CHM 310 Biochemistry I		4
CHM 312 Biochemistry II		4

Minor Program: **Bioethics**

Program Code ULASPHIB2
 Version # 2142
 Program Effective Spring 2014
 Check Sheet Reviewed March 2011

Department of Philosophy

(18/19 S.H. minimum)

1. Required Courses: 9SH		
PHI 040 Introduction to Ethics		
PHI 210 Medical Ethics		
PHI 113 Environmental Philosophy		
2. Select one of the following two courses (3/4 SH):		
BIO 010/011 Introduction to Biology (with lab)		
BIO 104/105 Principles of Biology (4 credits, with lab)		
3. Select one of the following courses (3 SH):		
BIO 130 Environmental Issues: Global Perspectives		
BIO 140 Biology and Society		
BIO/ENV 222/223 Environmental Biology (with lab)		
BIO 242/243 Ecosystem Ecology (with lab)		
BIO 244/245 Ecology (with lab)		
ENV 100/101 Introduction to Environmental Science (with lab; Env. Sci. majors only)		
GEG 210 Environmental Conservation		
4. Electives: Select one of the following courses (3 SH):		
ANT 125 The Anthropology of Death and Dying		
ANT 254 Medical Anthropology		
ANT 272 Human Genetics		
ECO 322 The Economics of Health and Medicine		
GEG 212 – Geography of Natural Hazards		
GEG 225 – Spaces of Globalization		
GEG 323 – Global Warming		
GEG 341 – Environmental Planning		
GEG 343 – Land Use Planning		
HEA 370 Selected Topics in Health*		
HEA 380 Independent Study in Health*		
HEA 395 Honors Health Independent Study/ Thesis *		
HEA 421 Critical Issues in Health		
PHI 125 Philosophical Aspects of Death and Dying		
PHI 225 Persons, Life, and Death		
PHI 235 Topics in Moral Theory		
PHI 245 Human Love and Sexual Morality		
PHI 330 Philosophy of Science		
POL 258 The Administration of U.S.		

Environmental Law		
POL 435 Technology and Contemporary Politics and Society		
PSY 255 Environmental Psychology		
PSY 331 Health Psychology: Biopsychosocial Factors in Health and Illness		
SOC/SWK 290 Social Gerontology and Social Welfare		
SOC 335 Introduction to Public Health		
SWK 130 Poverty and Social Welfare		
SWK 328 Child Welfare and Social Work		

* Approval of topic by Philosophy Department required for this course to count toward minor.

Minor Program: Biology Department of Biology (21 S.H.)	Program #	ULASBIOGY2
	Version #	1978
	Effective:	Fall 1997
	Check Sheet Reviewed:	11/1996

I. Required Courses: 12 S.H.	GR.	S.H.
BIO 104 Principles of Biology		4
BIO 106 Introduction to Zoology		4
BIO 108 Introduction to Botany		4

II. Electives: 9 S.H.	GR.	S.H.
Select three BIO courses – Two electives must be at the 200 level or above and One elective must be at the 300 level or above.		
BIO		3
BIO		3
BIO		3

Note:

The following BIO courses may **not** be used to Satisfy the minor in Biology:

- BIO 380 Senior Seminar in Biology
- BIO 390 Internship in Biology

Minor Program: Chemistry Department of Physical Sciences (23 - 24 S.H. minimum)	Program #	ULASCHEMI2
	Version #	1928
	Effective:	Fall 1992
	Check Sheet Reviewed:	3/2004

I. Required Courses: 20 S.H.	GR.	S.H.
CHM 100 General Chemistry I		4
CHM 102 General Chemistry II		4
CHM 214VL Organic Chemistry I		4
CHM 216WI Organic Chemistry II		4
CHM 230QLWI Analytical Chemistry I		4

II. Electives: 3-4 S.H.	GR.	S.H.
This course must be at the 300 level with the Consent of the minor department advisor. (All course prerequisites must be satisfied.)		
CHM		3-4

Computer Science: Minor in Software Development

Minor Program: 21 credits		
1. Required Courses – 15 credits	CR	GR
CSC 125: Discrete Math for Computing I		
CSC 225: Discrete Math for Computing II		
CSC 135: Computer Science I		
CSC 136: Computer Science II		
CSC 237: Data Structures		
2. Elective Course – 3 credits	CR	GR
Any 200-level or higher CSC* course		
3. Elective Course – 3 credits		
Any 300-level or higher CSC ** course		

Total Credits	
Required Courses	15
Elective Courses	6
TOTAL	21

Software Development Minor
Program Code: ULASCOMSD2
Version Number: 2118 – Fall 2011
Effective Date: August 29, 2011

*If you are thinking of going on for an MS in Computer Science: Software Development you should take CSC 235.

** If you are thinking of going on for an MS in Computer Science: Software Development you should take CSC 310.

Minor Program: <h1 style="text-align: center;">Criminal Justice</h1> Department of Criminal Justice 18 S.H. (minimum)	Program #	00016
	Version #	20123
	Effective:	Fall 2011
	Check Sheet Reviewed:	8/2010

1. Required Courses: 3 S.H.	GR	S.H.
CRJ 010 Intro to Criminal Justice		3
2. Elective Courses: 15 S.H.	GR	S.H.
Select five courses with CRJ prefix other than CRJ 010.		
CRJ		3

***In order to receive transcript recognition of a minor program, students must complete half of the minor course work at KU AND must earn a minimum G.P.A. of 2.00 in their minor course work.**

**** C or higher in CRJ 010 Intro to Criminal Justice**

*****At least 9 S.H. must be taken at the 200 level or above.**

******CRJ 880's will count as 100 level courses.**

Environmental Geography Minor:

Why choose the Environmental Geography Minor?

1. Environmental geography gives you a spatial perspective, so that not only can you answer the question of where are things located, but why are these phenomena located where they are and what is their significance.
2. Environmental geography provides a global perspective of environmental processes and problems that condition and influence international relations.
3. Environmental geography expands employment opportunities; its perspectives are used by planners in government, teachers, environmental analysts, and non-governmental organizations.

Categories of Courses (minimum of 18 credits required)

A. Required Courses -- 6 Credits

- GEG 010 Elements of Physical Geography
- GEG 274 Intro. to Geographic Information Systems and Lab

B. Elective Courses -- 12 Credits

- GEG 040 Descriptive Oceanography
- GEG 204/205 Meteorology and Lab
- GEG 210 Environmental Conservation
- GEG 212 Geography of Natural Hazards
- GEG 232 Field Methods in Geography
- GEG 304/305 Weather Analysis and Lab
- GEG 322 Climatology
- GEG 324/325 Geomorphology and Lab
- GEG 330 Cartography
- GEG 333 Advanced Geographic Information Systems
- GEG 341 Environmental Planning
- GEG 343 Land Use Planning
- GEG 347 Remote Sensing of the Environment and Lab
- GEG 375 Research Methods
- GEG 394 Internship in Geography
- INT 111 International Environmental Issues

Environmental Geography Minor

(ULASGEOEV2 Effective Date: 8/24/2015)

A. Required Courses – 6 credits		SH	GR
GEG 010	Elements of Physical Geography		
GEG 274	Intro to Geographic Information Systems & Lab		
B. Elective Courses – 12 credits			
GEG 040	Descriptive Oceanography		
GEG 204/205	Meteorology and Lab		
GEG 210	Environmental Conservation		
GEG 212	Geography of Natural Hazards		
GEG 232	Field Methods in Geography		
GEG 304/305	Weather Analysis and Lab		
GEG 322	Climatology		
GEG 324/325	Geomorphology and Lab		
GEG 330	Cartography		
GEG 333	Advanced Geographic Information Systems		
GEG 341	Environmental Planning		
GEG 343	Land Use Planning		
GEG 347	Remote Sensing of the Environment and Lab		
GEG 375	Research Methods		
GEG 394	Internship in Geography		
INT 111	International Environmental Issues		
Check Sheet Updated: October 24, 2014			
Version No. 2158			

Minor Program: <h1 style="text-align: center;">Forensics Studies</h1> Department of Criminal Justice 18 S.H. (minimum)	Academic Plan:	ULASCRJF2
	Effective Date:	August 29, 2016
	Check Sheet Reviewed:	

1. Required Courses: 3 credits	GR	S.H.
CRJ 301: Investigation and Intelligence*	3	
2. Core Courses: 6 credits		
(choose two courses from the following:		
ANT 258: Forensic Anthropology	3	
BIO 111: Forensic Biology*	3	
CHM 051: Introduction to Forensic Science	3	
CSC 111: Computer Forensics OR CSC 351: Digital Forensics*	3	
3. Elective Courses: 9 credits		
(choose 3 courses from the following courses not previously used in core course requirement)		
ANT 258: Forensic Anthropology	3	
ANT 320: Archeological Field Methods	3	
ANT 321: Advanced Archaeological Field Methods	3	
BIO 111: Forensic Biology*	3	
CHM 051: Introduction to Forensic Science	3	
CRJ 181: Criminal Law	3	
CRJ 182: Criminal Procedure	3	
CRJ 320: Evidence*	3	
CSC 111: Computer Forensics OR CSC 351: Digital Forensics*	3	
PSY 217: Psychology and the Law*	3	
WRI 205: Scientific Writing*	3	

Note: In order to receive transcript recognition of a minor program, students must complete half of the minor course work at KU AND must earn a minimum G.P.A. of 2.00 in their minor course work.

*Please note that prerequisites are required for these courses.

****No student may use more than two courses from their major or another minor toward the Forensic Studies minor.**

Geography Minor

Why choose a minor in Geography?

1. Geography gives you a spatial perspective, so that not only can you answer question of where things are located, but why are these phenomena located where they are and what is their significance.
2. Geography provides a global perspective of processes and problems that influence international relations.
3. Geography expands employment opportunities; its perspectives are used by planners in government, teachers, environmental analysts, and marketing and business consultants.

Categories of Courses (minimum of 18 credits required)

A. Required Courses -- 6 Credits

GEG 010	Elements of Physical Geography
GEG 020CD	Elements of Cultural Geography

B. Techniques Course -- 3 Credits

One course must be selected from the following:

GEG 230	Map Reading and Interpretation
GEG 232	Field Methods in Geography
GEG 274CPQL	Geographic Information Systems & Lab
GEG 330CPVL	Cartography
GEG 333	Adv. Geographic Information Systems
GEG 341	Environmental Planning
GEG 343	Land Use Planning
GEG 347	Remote Sensing of the Env. & Lab
GEG 375	Research Methods in Geography

C. Geography Electives -- 9 Credits

Only one regional course may be used in this section.
At least one course must be at the 200 level or above.

Geography Minor

(ULASGEOPH2 Effective Date: 8/24/2015)

A. Required Courses – 6 credits	SH	GR
GEG 010 Elements of Physical Geography		
GEG 020CD Elements of Cultural Geography		
B. Techniques Course – 3 credits One course must be selected from the following:		
GEG 230 Map Reading and Interpretation		
GEG 232 Field Methods in Geography		
GEG 274CPQL Geographic Information Systems & Lab		
GEG 330CPVL Cartography		
GEG 333 Adv. Geographic Information Systems		
GEG 341 Environmental Planning		
GEG 343 Land Use Planning		
GEG 347 Remote Sensing of the Env. & Lab		
GEG 375 Research Methods in Geography		
C. Geography Electives – 9 credits Only one regional course is acceptable in this section. At least one course must be at the 200 level or above.		
Check Sheet Updated: October 24, 2014		

CULTURAL GEOGRAPHY:

- GEG 210 Environmental Conservation
- GEG 225CMCT Spaces of Globalization
- GEG 264 Medical Geography
- GEG 335 Political Geography
- GEG 338 Geography of Population

ECONOMIC GEOGRAPHY:

- GEG 220 Economic Geography
- GEG 223 Intro. to Transportation Geography
- GEG 225CMCT Spaces of Globalization
- GEG 310WI Urban Geography

GEOGRAPHIC TECHNIQUES:

- GEG 230 Map Reading and Interpretation
- GEG 232 Field Methods in Geography
- GEG 274CPQL Introduction to GIS Lecture / Lab
- GEG 330CPVL Cartography
- GEG 333 Advanced GIS
- GEG 341 Environmental Planning
- GEG 343 Land Use Planning
- GEG 347 Remote Sensing Lecture / Lab
- GEG 375 Research Methods in Geography

PHYSICAL GEOGRAPHY:

- GEG 040 Descriptive Oceanography
- GEG 204 Meteorology Lecture / Lab
- GEG 212 Geography of Natural Hazards
- GEG 304 Weather Analysis Lecture / Lab
- GEG 322 Climatology
- GEG 323 Global Warming & Science of Climate Change
- GEG 324 Geomorphology Lecture / Lab

REGIONAL GEOGRAPHY:

- GEG 101 World Regional Geography
- GEG 110 Geography of United States and Canada
- GEG 112 Geography of Pennsylvania
- GEG 120 Geography of Subsaharan Africa
- GEG 140 Geography of Europe

Minor Program: Geology Department of Physical Sciences (20 S.H. minimum)	Program #	ULASGEOLO2
	Version #	1913
	Effective:	Fall 1991
	Check Sheet Reviewed:	4/99

1. Required Courses: 8 S.H.	GR.	S.H.
GEL 100 Physical Geology		4
GEL 102 Historical Geology		4

2. Electives: 12 S.H.	GR.	S.H.
Select any four GEL courses at the 200 level or above, Excluding GEL 237. (All course prerequisites must be satisfied.)		
GEL		3

Minor Program: **German Communication
& Culture**

Department of Modern Language Studies

(18 S.H. minimum)

Program # ULASGERCC2
Version # 20096
Program Effective: Spring 2009
Check Sheet Reviewed: 4/08

1. Required Courses: 12 S.H.	GR	S.H.
GER 103 Intermediate German III		
GER 104 Intermediate German IV		
GER 211 German Comp & Conv I		
GER 212 German Comp & Conv II		

2. Elective Courses: 6 S.H.	GR	S.H.
Select two courses with the GER prefix. Please consult with the minor advisor:		
GER		
GER		

Notes:

If beginning courses in German are needed (GER 011 & 012), then they must be taken under General Education. These courses are not to be considered part of the minor and must be excluded from the 18 credit hour requirement in German and from the calculation of the QPA in the minor.

Minor Program: **History** (18 S.H.)
 Department of History

Program #: 00033
 Version #: 19873
 Program Effective: Fall 1986
 Check Sheet Reviewed: 2/98

ELECTIVE COURSES: 18 S.H.	GR	S.H.
Courses already taken:		
Courses currently taking:		
Courses to be taken:		

Note:

- Select six HIS courses.
 At least 9 S.H. must be taken at the 200 level or above.

Minor Program: <h1 style="text-align: center;">Homeland Security</h1> Department of Criminal Justice 18 S.H. (minimum)	Academic Plan:	ULASHLS2
	Effective Date:	August 29, 2016
	Check Sheet Reviewed:	

1. Required Courses: 12 S.H.	GR	S.H.
HLS 100 Homeland Security		3
HLS 200 Homeland Security & Emergency Management		3
HLS 300 Homeland Security/Intelligence		3
HLS 310 Terrorism & Counterterrorism		3
2. Elective Courses: 6 S.H.		
Select two courses from the list below:		
ANT 165CD The Muslim Middle East		3
CSC 111 Computer Forensics		3
CRJ 170 Intro to Security Management		3
ENV 100 Intro to ENV Science		3
HIS 155 Middle East		3
HIS 170 US Military		3
HIS 210 Russia/Soviet Union		3
HLS 323: Development of National Security & the Judiciary		3
POL 020CD International Relations		3
POL 115 Public Administration		3
POL 227WI International Conflict & Sec		3
POL 228CTWI American Foreign Policy		3
POL 311 Constitutional Law I		3
POL 314 The Admin of US Env. Law		3
POL 346 Public Budgeting & Fiscal Mgmt.		3
SOC 213CDWI World Religions		3
SOC 224 Immigration and Assimilation		3

Note: In order to receive transcript recognition of a minor program, students must complete half of the minor course work at KU AND must earn a minimum G.P.A. of 2.00 in their minor course work.

Computer Science: Minor in Information Technology

Minor Program: 21 credits		
1. Required Courses – 15 credits	CR	GR
CSC 125: Discrete Math for Computing I		
CSC 130: IT Fundamentals		
CSC 135: Computer Science I		
CSC 136: Computer Science II		
CSC 253: IT Systems		
2. Elective Course – 3 credits	CR	GR
Any 200-level or higher CSC course		
3. Elective Course – 3 credits		
Any 300-level or higher CSC** course		

Total Credits	
Required Courses	15
Elective Courses	6
TOTAL	21

Information Technology Minor
Program Code: ULASCISIT2
Version Number: 2118 – Fall 2011
Effective Date: August 29, 2011

**If you are considering an MS in Computer Science: Information Technology, you should take one of the following: CSC 311, CSC 341 or CSC 352.



COLLEGE OF LIBERAL ARTS & SCIENCES • MINOR • LITERATURE

Program Code: ULASLITER2

Version Number: 20098-Fall 2009

Effective Date: April 2, 2009

Program Requirements: 18 CREDITS

I. Required Course Work (9 credits)

RC CR GR

ENG 100: Principles of Literary Analysis	3			
Choose two of the following:				
ENG 101: World Literature I				
Or				
ENG 102: World Literature II				
ENG 105: Experiences in American Literature				
ENG 106: Experiences in British Literature				
COURSE:	3			
COURSE:	3			

II. Electives (9 credits)

RC CR GR

Choose any three literature courses at the 200 level or above (ENG prefix only)				
ENG: _ _ _	3			
ENG: _ _ _	3			
ENG: _ _ _	3			

Advisement Note: ENG 100 should be taken prior to enrollment in other courses.

Minor Program: Marine Science (18 S.H.) Department of Physical Sciences	Program #	ULASMARSC2
	Version #	2118
	Effective:	Fall 2011
	Check Sheet Reviewed:	11/10

I. Required Courses: 6 S.H.	GR.	S.H.
MAR 110 Introduction to Oceanography		3
Method-Intensive Field Course (Note 1)		3

II. Electives: 12 S.H.	GR.	S.H.
Select four MAR courses at the 200 level or above, two of which must be taken at Marine Science Consortium, Wallops Island, VA. (All course prerequisites must be satisfied.)		
MAR		3

Minor Program: Marine Science (18 S.H.) Department of Physical Sciences	Program #	ULASMARSC2
	Version #	2118
	Effective:	Fall 2011
	Check Sheet Reviewed:	11/10



COLLEGE OF LIBERAL ARTS & SCIENCES • MATHEMATICS MINOR

Academic Plan: ULASMATHM2

Version Number: 2122 – Spring 2012

Effective Date: January 23, 2012

Revision: July 22, 2014

PROGRAM REQUIREMENTS FOR MATHEMATICS MINOR

Mathematics Minor Program: 21 credits			
1. Required Courses: 18 cr	CR	GR	CAC
MAT 181: Calculus I	4		
MAT 182: Calculus II (MAT 181)	4		
MAT 224: Foundations of Higher Mathematics (MAT 181) or	3		
CSC 225: Discrete Mathematics for Comp II (CSC 125 & 135)			
MAT 260: Linear Algebra I (MAT 224)	3		
MAT 283: Calculus III (MAT 182)	4		
2. Electives: 3 cr			
MAT 300-level or higher			
COURSE:	3		

Prerequisites in parentheses

Minor in Pennsylvania German Studies

Program #: ULASGERST2
Version #: 2168
Program Effective: 8/22/2016
Check Sheet Reviewed:

I. Required Courses: 6 SH	GR	SH
PAG 010 Intro to PA German Studies		3
PAG 390 Intern in PA German Studies		3
II. Elective Courses: 12 SH	GR	SH
ANT 135 PA German Cultural Traditions		3
ANT 190 Human Diver & Adapt in PA		3
ANT 242 Museums, Festivals, Cult.Events		3
ANT 320 Archeological Field Methods*		3
ANT 335 Ethnographic Research Methods*		3
ANT 379 Independent Study*		3-6
ANT 390 Internship in Anthropology*		3-6
ARH 339 Ind Studies History of Art*		3-6
ARH 385 Selected Topics Art History*		3-6
CFT 377/378/379/380 Independent Study: Craft Studio I - IV*		1-9
GEG 112 Geography of Pennsylvania		3
GEG 371 Independent Study*		3
GEG 394 Internship in Geography*		3
GER 103 Intermediate German III		3
GER 104 Intermediate German IV		3
GER 301 Survey of German Literature I		3
GER 302 Survey of German Literature II		3
GER**		3-6
GER 390 International Internship		1-6
GER 495 Independent Study		1-6
HIS 120 History of Pennsylvania		3
HIS 257 Introduction to Public History		3
HIS 260 Historic Preservation		3
HIS 275 PAG Landscape		3
HIS 350 Local Community Studies		3
HIS 379 Independent Study*		3-6
HIS 390 History Internship*		3-6
PAG 011 Intro to the PA German Lang I		3
PAG 012 Intro to the PA German Lang II		3
PAG 251 PAG lit in English and Transl		
PAG 301 PA German Literature		3
PAG 275 PAG Landscape		3
PAG 360 PA German Studies Abroad		3-9
PAG 370 Readings about PA Germans		3-9
PAG 379 Independent Study		3-9
PAG 390 Internship in PAG Studies		3-6
SOC 379 Independent Study*		3-9

*With approval by contract, students may count any course in any department on a Pennsylvania German topic, including those listed above with an asterisk.

**PAG Minors can only use 2 courses in the German Department for the minor, both must be above 100 and include German language content not German in translation.

Following a university requirement, 9 hours must be above the 200 level.

Planning Geography Minor:

Why choose the Planning Geography Minor?

1. Geography gives you a spatial perspective, so that not only can you answer the questions of *where* things are located, but *why* are these phenomena located where they are and *what* is their significance.
2. The Planning Geography Minor builds on your understanding of environmental processes and problems that influence planning issues.
3. The Planning Geography Minor expands employment opportunities; its perspectives are used by planners in government, environmental analysts, and non- governmental organizations.

Categories of Courses (minimum of 18 credits required)

A. Required Courses -- 9 Credits

GEG 010	Elements of Physical Geography
GEG 020CD	Elements of Cultural Geography
GEG 341	Environmental Planning or
GEG 343	Land Use Planning

B. Elective Courses -- 9 Credits (select 3)

GEG 210	Environmental Conservation
GEG 212	Geography of Natural Hazards
GEG 220	Economic Geography
GEG 223	Transportation Geography
GEG 225	Spaces of Globalization
GEG 274CPQL	Introduction to GIS Lecture/Lab
GEG 310WI	Urban Geography
GEG 335	Political Geography
GEG 338	Geography of Population
GEG 341	Environmental Planning or
GEG 343	Land Use Planning
GEG 347/348	Remote Sensing of the Environment Lecture/Lab
GEG 375	Research Methods
GEG 394	Internship in Geography

Planning Geography Minor

(ULASGEOPL2 Effective Date: 8/24/2015)

A. Required Courses – 9 credits		SH	GR
GEG 010	Elements of Physical Geography		
GEG 020CD	Elements of Cultural Geography		
GEG 341 GEG 343	Environmental Planning or Land Use Planning		
B. Elective Courses – 9 credits (select 3)			
GEG 210	Environmental Conservation		
GEG 212	Geography of Natural Hazards		
GEG 220	Economic Geography		
GEG 223	Transportation Geography		
GEG 225	Spaces of Globalization		
GEG 274CPQL	Introduction to GIS Lecture & Lab		
GEG 310WI	Urban Geography		
GEG 335	Political Geography		
GEG 338	Geography of Population		
GEG 341 GEG 343	Environmental Planning or Land Use Planning		
GEG 347/348	Remote Sensing of the Environment Lecture&Lab		
GEG 375	Research Methods		
GEG 394	Internship in Geography		
Check Sheet Updated: O c t o b e r 24, 2014			
Version No. 2158			

Political Science Minor*

Program Code: ULASPOLSC2

Effective Fall 2015

A minor in political science must be declared in the office of the
Department of Political Science—Old Main 318

1. Required Courses: 6 s.h.		Gr.	s.h.
POL 10	American Government		3
POL 20	International Relations		
	OR		
POL 50	State & Local Government		3
2. Elective Courses: 12 s.h.**		Gr.	s.h.
Select any four POL courses in consultation with your advisor:			

*Students must maintain at least a 2.0 GPA in the minor courses.

**At least two elective courses need to be at the 141 level or above

ULASPOLSC2



COLLEGE OF LIBERAL ARTS & SCIENCES • MINOR • PROFESSIONAL WRITING

Program Code: ULASWRIT12

Version Number: 2142-Spring 2014

Effective Date: January 20, 2014

Program Requirements: 18 CREDITS

I. Required Course Work (9 credits)

RC CR GR

WRI 213: Copy and Line Editing	3			
WRI 207: Writing for the workplace	3			
Plus 1 of the following:				
WRI 208: Creative Writing: Forms or				
WRI 211: Journalism 1				
COURSE:	3			

Students must have at least a B in English 023, 024 or 025 before enrolling in the minor.
Students must satisfy all the prerequisites before enrolling in the class.

II. Electives (9 credits)

At least one must be at the 300-level or higher*

RC CR GR

WRI: 3__	3			
WRI:	3			
WRI: or ENG: (WI)				
COURSE:	3			

WRI 380 (Professional Seminar) and WRI 390 Writing Internship are not open to minors.

WRI 208 and WRI 211 may be used as electives if not being used in the required course work.

One Writing Intensive (WI) ENG course may be used as an elective.

Plan #: ULASPSY2

Program Effective: Fall 2005

Req. Term: Fall 2005

Minor Program (18 Semester Hours)

Psychology

Department of Psychology

I. Required - (3 hrs.)		
PSY 011 - General Psychology (prerequisite for all others) with a C or better	<i>Grade</i>	<i>Credits</i>
	_____	_____
II. Required - (9 hrs.) Select three PSY courses at the 200 level or above:		
PSY _____	<i>Grade</i>	<i>Credits</i>
	_____	_____
PSY _____	_____	_____
	_____	_____
PSY _____	_____	_____
	_____	_____
III. Electives - (6 hrs.) Select any two PSY courses not chosen above:		
PSY _____	<i>Grade</i>	<i>Credits</i>
	_____	_____
PSY _____	_____	_____
	_____	_____

Requirements to have a minor in Psychology:
a 'C' or better in PSY 011, a 2.0 GPA, and at least half
of the credits must be taken at Kutztown University.

Public Administration Minor*

Program Code: ULASPUBAD2
Version Number: 1858--Fall 1985

A minor in public administration must be declared in the office of the
Department of Political Science—Old Main 318

1. Required Courses: 6 s.h.	Gr.	s.h.
POL 10 American Government		
POL 115 Public Administration		
2. Elective Courses: 12 s.h.**	GR.	s.h.
Selective any four courses from the following:		
POL 50 State and Local Government		
POL 135 Urban Politics (formerly POL 340)		
POL 225 Planning and Decision Making		
POL 346 Public Budgeting and Fiscal Management		
POL 347 Human Resource Management		
POL 425 Public Policy Making		
POL 465 Administrative Law		

*Students must maintain at least a 2.0 GPA in the minor courses.

**At least three elective courses need to be at the 100 level or above.

Minor Program: Social Work (18 S.H.)

Department of Social Work

Program #	00072
Version #	963
Effective:	Fall 1995
Check Sheet Reviewed:	5/09

I. Required Courses: 18 S.H.	GR.	S.H.
SWK 100 Intro. to SWK & Social Welfare		3
SWK 130 Poverty & Social Welfare		3
SWK 160 Human Behavior & Soc. Envir.		3
*SWK 200 Prof. Context of SWK Practice		3
SWK 255 Social Welfare Policy		3
Select one of the following courses:		
**SWK/NUR 320 Case Management – An Interdisciplinary Approach or SWK		3

NOTES:

* A grade of "C" or better is required in SWK 200.

** SWK/NUR 320 is the recommended elective.
Another elective may be taken with the permission
of the Departmental Chair.

Sociology Minor Program
Department of Anthropology & Sociology (18 S.H.)

Program	ULASSOCIL2
Program Effective Date	January 20, 2015
Review Date	March 2014

I. Required Courses: 9 SH	GR	SH
SOC 010CD Principles of Sociology		3
Select ONE course from the following:	GR	SH
SOC 260CD Social Stratification		3
SOC 270 Sociology of Organizations		3
SOC 275 Social Found. of Human Beh.		3
SOC 310 Foundations of Social Theory		3
Select ONE course from the following:	GR	SH
SOC 207CDWI Families and Social Class		3
SOC 230CDCT Urban Sociology		3
SOC 235CDWI Sociology of Gender		3
SOC 245CD Sociology of Deviance		3
II. 9 SH of SOC courses ***	GR	SH

Computer Science: Minor in Software Development

Minor Program: 21 credits		
1. Required Courses – 15 credits	CR	GR
CSC 125: Discrete Math for Computing I		
CSC 225: Discrete Math for Computing II		
CSC 135: Computer Science I		
CSC 136: Computer Science II		
CSC 237: Data Structures		
2. Elective Course – 3 credits	CR	GR
Any 200-level or higher CSC* course		
3. Elective Course – 3 credits		
Any 300-level or higher CSC ** course		

Total Credits	
Required Courses	15
Elective Courses	6
TOTAL	21

Software Development Minor
Program Code: ULASCOMSD2
Version Number: 2118 – Fall 2011
Effective Date: August 29, 2011

*If you are thinking of going on for an MS in Computer Science: Software Development you should take CSC 235.

** If you are thinking of going on for an MS in Computer Science: Software Development you should take CSC 310.

Minor Program: **Spanish**
Department of Modern Language Studies

(21 S.H. minimum)

Program # ULASSPAN12
Version # 20103
Program Effective: Fall 2009
Check Sheet Reviewed: 10/08

1. Required Courses: 12 S.H.	GR	S.H.
SPA 103 Intermediate Spanish III		
SPA 104 Intermediate Spanish IV		
SPA 212 Spanish Composition		
SPA 213 Spanish Conversation		

2. Spanish Electives: 9 S.H.*	GR	S.H.
SPA One Culture Required		
Select two of the following courses:		
SPA (Literature)		
SPA (Culture)		
SPA 220 Applied Linguistics		
SPA 325 Advanced Syntax & Stylistics		

*One of these requirements may be met outside the department with advisor and chair approval.

SPANISH 360 MAY ONLY BE TAKEN FOR 3 CREDITS.

Minor Program: **Spanish for Modern Business**
Department of Modern Language Studies

(21 S.H. Minimum)

Program # ULASSPABU2
Version # 2158
Program Effective: Fall 2015
Check Sheet Reviewed: 8/14

1. Required Courses: 15 S.H.	GR	S.H.
SPA 105 Intermediate Spanish for Business I		3
SPA 106 Intermediate Spanish for Business II		3
SPA 207 Writing in Spanish for the Professional World		3
SPA 291 Advanced Business Practices and Cultures I		3
SPA 292 Advanced Business Practices and Cultures II		3

2. Spanish / MLS Electives: 6 S.H.*	GR	S.H.
SPA 225 Introduction to Spanish/English Translation		3
SPA 363 Spanish and Entrepreneurship		3
SPA 390 International Internship^		1-9
MLS 363 The Entrepreneurial Language Professional		3

*One of these requirements may be another SPA course with the approval of the Department Chair and the Academic Advisor.

^SPA 390 is strongly encouraged.

COLLEGE OF VISUAL & PERFORMING ARTS

The mission of the College of Visual and Performing Arts is to provide an innovative contemporary education to prepare future leaders in art, design, media, music, and communication. Our students have it all: the intensity, the immersion, and the creative environment of an art, design, media, music, or communication school plus the energy, excitement, and diversity that large universities offer. Select a single major, add a minor, or declare a double major; find the passion that prepares you for the future of your dreams. No matter which program you choose, creative avenues abound to develop your skills, practice your techniques, and cultivate your vision. This is where our excellent faculty, over 100 strong, come in. Our professors are committed to your growth as an individual. Experts in their field, they are passionate about inspiring students to meld their passions with ideas from the larger university. Expand your horizons. Study on our picturesque campus in a tranquil atmosphere away from distractions. Hear world-class artists at KU Presents! and attend Faculty First Thursdays. Be inspired by the big city life of Philadelphia, New York City, Baltimore, or Washington on a field trip or with the Art Bus. Venture further afield with a study abroad experience. The choices are boundless. Imagine a community that values your creativity. Discover the arts at Kutztown University.

-Dr. Michelle Kiec, Interim Dean

Bachelor of Arts

B.A. Art History

B.A. Communication Studies

B.A. Music

B.A. Music: Commercial Music

B.A. Music: Performance

Bachelor of Fine Arts

B.F.A. Applied Digital Arts

B.F.A. Communication Design

B.F.A. Crafts

B.F.A. Studio Art

Bachelor of Science

B.S. Art Education: Alternative Settings

B.S. Cinema, Television, and Media Production

B.S. Music Education

B.S. Social Media Theory and Strategy

Minors

Art Education

Art History

Audio Engineering

Communication Studies

Crafts

Electronic Media

Jazz

Music History Music

Performance and Storytelling

Public Relations

Studio Art



COLLEGE OF VISUAL & PERFORMING ARTS
BACHELOR OF ARTS - ART HISTORY

Program Code:

Effective Date: Fall 2016

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) RC CR GR

A. Oral Communication: COM 010 or above	RC	CR	GR
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025	RC	CR	GR
COURSE:	3		
C. Mathematics: MAT 017 or above	RC	CR	GR
COURSE:	3		
D. Wellness: Any 3-credit HEA course	RC	CR	GR
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits) RC CR GR CAC

A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)	RC	CR	GR	CAC
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)	RC	CR	GR	CAC
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language	RC	CR	GR	CAC
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE	RC	CR	GR	CAC
COURSE: ARH 124 – Art History A	3			
E. Free Elective: Any course carrying university credit	RC	CR	GR	CAC
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM RC CR GR CAC

A. Writing Intensive (WI) (9 credits)	RC	CR	GR	CAC
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)	RC	CR	GR	CAC
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)	RC	CR	GR	CAC
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)	RC	CR	GR	CAC
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)	RC	CR	GR	CAC
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits) RC CR GR CAC

A. Social Science and/or Natural Science and/or Math (9 credits): Any course with prefix ANT, AST, BIO, CHM, CRJ, ECO, ENV, GEG, GEL, HIS, INT, MAR, MAT (017+), MCS, NSE, PHY, POL, PSY, SOC, SSE, SWK	RC	CR	GR	CAC
COURSE:	3			
COURSE:	3			
COURSE:	3			
B. Arts and/or Humanities (12 credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WGS, WRI, or Modern Language	RC	CR	GR	CAC
COURSE:	3			

VI. MAJOR PROGRAM - PSH

A. Required Courses: 12 SH	GR	SH
1. Introductory Courses: 6 SH*		
ARH 125 – Art History B		3
ARH 126 – Art History C		3
2. ARH 380: Art History Seminar		3
3. ARH 390: Internship in Art History		3
B. Art History Elective Courses: 30 SH		
1. Studio Art: 6 SH (Any FAR course#)		
		3
		3
2. Pre-Modern or Non-Western Art History: 6 SH%		
		3
		3
3. Modern or Contemporary Art History: 6 SH%		
		3
		3
4. Art History Electives: 12 SH (Any ARH course at the 300-level)		
		3
		3
		3
		3

VII. Free Electives: 30 SH^	GR	SH
		3
		3
		3
		3
		3
		3
		3
		3
		3
		3

^ Consult your advisor when scheduling free electives. Many disciplines are recommended to complement Art History offerings or for preparing students interested in particular career paths or concentrations. Such areas include but are not limited to: ANT, ARC, ART, ARU, CDE, CDH, CFT, CHI, CHM, COM, EDU, ENG, FAR, FAS, FRE, GER, HIS, INT, LIB, MUS, PAG, PHI, POL, PSY, RUS, SOC, SPA, THE, TVR, WGS, and WRI among others.

* Students cannot earn credit for ARH 024 AND 124, ARH 025 AND 125, or ARH 026 AND 126 toward the major requirements of this program.

Studio Art courses available without prerequisites include: FAR 14VL Elements of Drawing for Non-Art Majors; FAR 61 Introduction to Darkroom Photography for Non-Art Majors; FAR 62 Digital Photo for Non-Art Majors. Double majors or minors may use FAR studio courses from their major or minor to fulfill this requirement.

+ **Pre-Modern or Non-Western Art History Courses:** ARH 301 Art of the Ancient Near East & Egypt; ARH 302 Early Christian and Byzantine Art; ARH 303 Art of Ancient Greece and Rome; ARH 304 Renaissance Art; ARH 305 Medieval Art: Carolingian to High Gothic; ARH 306 Art of Northern Europe: 1350-1580; ARH 307 European Art: 1580-1780; ARH 318 Picturing Gender; ARH 319 Arts of the Islamic World; ARH 325 Contemporary African Art and the Diaspora; ARH 340 Pompeii and Ravenna: Bookends of the Roman Empire; ARH 345 Crosscurrents in Italian and Northern Renaissance Art; ARH 350 Baroque Art in Italy, France and Spain between 1590 and 1700; ARH 351 Baroque Art in the Dutch Republic, Flanders, and England between 1590 and 1700.

% **Modern or Contemporary Art History Courses:** ARH 308VLWI European Art: 1780-1880; ARH 309 Art Since 1950; ARH 321CTWI History of Photography; ARH 324 Contemporary African-American Art; ARH 325 Contemporary African Art and the Diaspora; ARH 334VLWI American Art; ARH 338CTWI European Modernism: 1880-1940; ARH 365 Cut and Paste: a History of Collage; ARH 367 Contemporary British Art; ARH 370CDWI Art Today: the Next Decade.



COLLEGE OF VISUAL AND PERFORMING ARTS • BA • COMMUNICATION STUDIES

Program Code: UVPASPECO

Version: 2158

Effective Date: August 24, 2015

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) RC CR GR

A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits) RC CR GR CAC

A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM RC CR GR CAC

A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits) RC CR GR CAC

A. Social Science and/or Natural Science and/or Math (9 credits): Any course with prefix ANT, AST, BIO, CHM, CRJ, ECO, ENV, GEG, GEL, HIS, INT, MAR, MAT (017+), MCS, NSE, PHY, POL, PSY, SOC, SSE, SWK				
COURSE:	3			
COURSE:	3			
COURSE:	3			
B. Arts and/or Humanities (12 credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WGS, WRI, or Modern Language				
COURSE:	3			

MAJOR PROGRAM (42 credits)

I. REQUIRED COURSES (12 credits)

Must follow the sequence given

A GRADE OF "C" OR ABOVE IS REQUIRED IN ALL REQUIRED COURSES.

RC CR

GR CAC

COM 101: Intro. to Communication Studies	3			
COM 240: Survey of Communication Theory	3			
COM 340: Comm Research Methods & Writing	3			
COM 380 Senior Capstone	3			

Students are encouraged to select a focus area with their advisor as they develop their academic plan.

These focus areas may include:

- Advocacy and Discourse
- Interpersonal Communication
- Media Studies
- Performance Studies
- Strategic Communication

II. Nine (9) credits at the 300 level or above. Internship credits may not be used in this section.

RC CR GR

CAC

COM3__	3			
COM3__	3			
COM3__	3			

III. Twelve (12) credits at the 200 level or above. Internship credits may not be used in this section.

RC CR GR

CAC

COM2__	3			

IV. Nine (9) credits at any level

RC CR GR

CAC

COM ____	3			
COM ____	3			
COM ____	3			

Only three (3) credits of COM 390 Internship may be used in meeting the requirements for the major. Additional Internship credits may be applied to the free electives.

Note: Acceptance into an internship requires the approval of advisor, department, and client. Internships are neither required nor guaranteed in the B.A. Communication Studies Program.

COM 010 Fundamentals of Oral Communication Grade

_____ **"C" or better is required** (Gen. Edu. Requirement)

Successful Completion and Review of Student Portfolio

Students will maintain a portfolio of their academic work throughout their time as a major. This portfolio will be reviewed by a committee of faculty members approximately halfway and at the end of their time in the major at Kutztown University. **Students must "pass" the portfolio requirement.**

V. FREE ELECTIVES: Any course carrying university credit

Students are encouraged to work toward the completion of a minor or a second major.

FREE ELECTIVES (30 credits)

RC CR

GR

CAC

1.	3			
2.	3			
3.	3			
4.	3			
5.	3			
6.	3			
7.	3			
8.	3			
9.	3			
10.	3			



COLLEGE OF VISUAL & PERFORMING ARTS • BA • MUSIC

Program Code: UVPAMUSIC

Version: 2158

Effective Date: August 24, 2015

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE: MUS 311WI (suggested)	3			WI
COURSE: MUS 312 CDWI (suggested)	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE: MUS 312CDWI (suggested)	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits

CR = Credits earned (fill in number of credits)

GR = Grade earned (fill in letter grade)

CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
A. Social Science and/or Natural Science and/or Math (9 credits): Any course with prefix ANT, AST, BIO, CHM, CRJ, ECO, ENV, GEG, GEL, HIS, INT, MAR, MAT (017+), MCS, NSE, PHY, POL, PSY, SOC, SSE, SWK				
COURSE:	3			
COURSE:	3			
COURSE:	3			
B. Arts and/or Humanities (12 credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WGS, WRI, or Modern Language				
COURSE:	3			



COLLEGE OF VISUAL & PERFORMING ARTS • BA MUSIC • EMPHASIS IN COMMERCIAL MUSIC

Program Code: UVPAMUSCM

Version: 2168

Effective Date: August 22, 2016

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: ECO 10 Intro to Economics (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE: WRI 207WICT Writing for the Workplace (suggested)	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE: PRO 210 Entrepreneurship (suggested)	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
A. Social Science and/or Natural Science and/or Math (9 credits): Any course with prefix ANT, AST, BIO, CHM, CRJ, ECO, ENV, GEG, GEL, HIS, INT, MAR, MAT (017+), MCS, NSE, PHY, POL, PSY, SOC, SSE, SWK				
COURSE:	3			
COURSE:	3			
COURSE:	3			
B. Arts and/or Humanities (12 credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WGS, WRI, or Modern Language				
COURSE:	3			



COLLEGE OF VISUAL & PERFORMING ARTS • BA MUSIC • PERFORMANCE EMPHASIS

Program Code: UVPAMUSP

Version: 2172

Effective Date: January 23, 2017

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits

CR = Credits earned (fill in number of credits)

GR = Grade earned (fill in letter grade)

CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (21 credits)	RC	CR	GR	CAC
A. Social Science and/or Natural Science and/or Math (9 credits): Any course with prefix ANT, AST, BIO, CHM, CRJ, ECO, ENV, GEG, GEL, HIS, INT, MAR, MAT (017+), MCS, NSE, PHY, POL, PSY, SOC, SSE, SWK				
COURSE:	3			
COURSE:	3			
COURSE:	3			
B. Arts and/or Humanities (12 credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WGS, WRI, or Modern Language				
COURSE: MUS 214: Harmony and Theory III (suggested)	3			
COURSE:	3			
COURSE:	3			
COURSE:	3			

SPECIALIZATION: 42 S.H.

1. Required Music Courses: 20 S.H.	RC	CR	GR	CAC
Take each of the following courses:				
MUS 101 Aural Skills I#	2			
MUS 102 Harmony & Theory I#	3			
MUS 201 Aural Skills II#	2			
MUS 202 Harmony & Theory II#	3			
MUS 213 Aural Skills III#	2			
MUS 306 Techniques and Materials of Musical Composition#	2			
Must take either MUS 195 & MUS 215 or MUS 311 & MUS 312:				
MUS 195WI Music in Human Experience# or MUS 311WI Music from Ancient Times to 1750#	3			
MUS 215CDWI American Popular Music# or MUS 312CDWI Music from 1750 to the Present#	3			
2. Applied & Performance Core Courses: 21 S.H.				
a. Private Instruction: 7 S.H.				
MUP#	1			
b. Ensembles: 11 S.H.				
♦ Large Ensembles in Major Area (6 semesters)				
MUP	1			
♦ Small Ensembles in Major Area (5 semesters)				
MUP	1			
MUP 287 New Music Ensemble	1			
c. MUP 399: Senior Recital#				
	1			
d. Supportive Performance Courses (3 S.H.)				
MUP 270 Studio Performance Seminar	1			
MUS 302 The Modern Private Music Teacher or MUS 304 The Professional Classical Musician <i>or</i> MUS 305 The Professional Jazz Musician	1			
MUU 299 Music Education Lab – Eurhythmics/Improvisation/Health	1			

ELECTIVES: 30 S.H.

Suggested Music Electives:				
Select one from each of the following:				
MUS 310 Composition & Arranging <i>or</i> MUS 303 Electronic Music Composition	3			
MUS 121 Fundamentals of Music Business <i>or</i> MUS 292 Audio Engineering I	3			
MUP	1			
MUP	1			
MUP	1			
General Electives:				

These courses require a "C" or better.

The student must achieve a "C" or better in the Major Performance Area to continue as a Music Major



COLLEGE OF VISUAL & PERFORMING ARTS • DEPARTMENT OF ART & ART HISTORY • BFA • APPLIED DIGITAL ARTS

Program Number: UVPAAPD

Version Number: 2168

Effective Date: 8/22/2016

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)		RC	CR	GR
A. Oral Communication: COM 010 or above				
COURSE:		3		
B. Written Communication: ENG 023, 024, or 025				
COURSE:		3		
C. Mathematics: MAT 017 or above				
COURSE:		3		
D. Wellness: HEA 102				
COURSE:		3		

II. UNIVERSITY DISTRIBUTION (15 credits)		RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)					
COURSE:		3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE or SWK; or certain GEG courses (see note at right)					
COURSE:		3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language					
COURSE:		3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE					
COURSE:		3			
E. Free Elective: Any course carrying university credit					
COURSE:		3			

III. COMPETENCIES CHECKLIST		RC	CR	GR	Designation
A. Writing Intensive (WI) (9 credits)					
COURSE:		3			WI
COURSE:		3			WI
COURSE:		3			WI
B. Quantitative Literacy (QL) OR Computer-Intensive (CP) (3 credits)					
COURSE:		3			
C. Visual Literacy (VL) OR Communication-Intensive (CM) (3 credits)					
COURSE:		3			
D. Cultural Diversity (CD) (3 credits)					
COURSE:		3			CD
E. Critical Thinking (CT) (3 credits)					
COURSE:		3			CT

COMPETENCY ACROSS THE CURRICULUM (CAC) are not additional courses.

They are "double counted" as fulfilling **both** the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation.)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (12 credits)		RC	CR	GR	CAC
A. Humanities (3 credits): Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language.					
COURSE:		3			
B. Choose from the following (9 credits): ANT, ARA, ARC, ARH, AST, BIO, CDH, CHI, CHM, COM, CRJ, CSC, ECO, ENG, ENV, FRE, GEG, GEL, GER, HEA, HIS, HUM, INT, MAR, MAT, MCS, MUP, MUS, PAG, PEC, PHI, PHY, POL, PRO, PSY, RUS, SOC, SPA, SWK, THE, TVR, WGS, WRI.					
COURSE:		3			
COURSE:		3			
COURSE:		3			

Check Sheet Version #2168

Program effective dates are listed on other side.

MAJOR PROGRAM: 81 SH

III. Concentration Requirements [12-15cr]

Note: A minimum of one concentration must be completed for graduation. 12cr if taking internship. 15 if not. *Required ONLY if NOT taking internship.

I. Foundation Art: 15 CR	GR	SH
FAR 015 Drawing I		3
FAR 151 Intro to Life Drawing <i>Animation or</i>		
FAR 162 Intro to Photo - Digital <i>Game Art & Interactive Media</i>		3
ART 031 2D Design		3
ART 032 3D Design		3
FAR/ART 182 Intro to Digital Media		3

ANIMATION CONCENTRATION: 18 SH		
Program UVPA STDD, Version # 2168		
Program Effective: August 22, 2016		
APD 1XX Animation 1: Modeling & Rigging		3
APD 2XX Animation 2: Character Animation		3
APD 3XX Animation 3: Visual Development		3
APD 3XX Post-Production & Visual Effects		3
APD 3XX Animation 4: Thesis *		3

II. Studio Courses: 48-51 CR	GR	SH
Required Applied Digital Arts Studios [12cr]		
APD 1XX Intro to Applied Digital Art		3
APD 1XX Visual Storytelling & Character Design		3
APD 1XX Game Design & Prototyping ² , APD 2XX 3D Print, Scan & Capture ³ , or APD 2XX level or higher		3
APD 3XX Capstone		3
APD 399 Senior Exhibition		3
Elective Applied Digital Arts Studios [12-21cr]		
Any APD 1XX		3
Any APD 2XX		3
Any APD 3XX		3
Three credits of APD 1XX or twelve (12) if taking internship		
APD 2XX or higher		3
or		
APD 3XX Internship		12
Required ART/CDE/FAR [12cr]		
CDE 130 Typography		3
ART/FAR 231 Digital Animation		3
ART 171 3D Modeling & Rendering		3
CDE 140 Digital Translation		3
Elective ART/CFT/CDE/FAR/FAS Studios [6-12cr]		
		3
		3

GAME ART: 18 SH		
Program UVPA STDD, Version # 2168		
Program Effective: August 22, 2016		
APD 1XX Game Art 1: Art Direction & Art Creation for Games		3
APD 2XX Game Art 2: Character Modeling & Game Animation		3
APD 3XX Game Art 3: Lighting, Textures & Level Assembly		3
APD 3XX Game Art 4: Game Development		3
APD /CDE 335 Interdisciplinary Team Projects*		3

INTERACTIVE MEDIA: 18 SH		
Program UVPA STDD, Version # 2168		
Program Effective: August 22, 2016		
APD 1XX Interactive Media 1: Art & Code		3
APD 2XX Interactive Media 2: Int. Spaces/Phys. Computing		3
APD 3XX Interactive Media 3: Touch		3
APD 3XX Interactive Media 4: Thesis		3
APD /CDE 335 Interdisciplinary Team Projects*		3

IV. Required Academic [18cr]		
Note: Some courses fulfill General Education requirements as indicated on the other side of this sheet. These courses should be checked off on BOTH sides of the sheet.		
ADH 1XX History of Applied Digital Arts Fulfills University Distribution requirement D.		3
Nine credits of ARH/CDH or other film/video history or theory course. Fulfills College Distribution requirement A.		
		3
		3
		3
TVR 050 Sound Production or MUS 276 Audio Engineering Fulfills College Distribution requirement A.		3
CSC 120 Intro to Creative Graphical Coding Counts ONLY in the major.		3



COLLEGE OF VISUAL AND PERFORMING ARTS • BFA • COMMUNICATION DESIGN

Program Code: UVPACOMDE, UVPACOMIL

Version: 2118

Effective Date: August 25, 2014

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE: ARH 124, 125 or 126 (suggested)	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) OR Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) OR Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (12 credits)	RC	CR	GR	CAC
A. Social Science or Natural Science or Math (3 credits): Any course with prefix ANT, AST, BIO, CHM, CRJ, ECO, ENV, GEG, GEL, HIS, INT, MAR, MAT (017+), MCS, NSE, PHY, POL, PSY, SOC, SSE, SWK				
COURSE:	3			
B. Arts and/or Humanities (9 credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUP, MUS, PAG, PHI, THE, WGS, WRI, or Modern Language				
COURSE: CDH 150 (suggested)	3			
COURSE: CDH 151 (suggested)	3			
COURSE: ART HISTORY ELECTIVE (not ARH 024, 025 or 026)	3			

COMMUNICATION DESIGN PROGRAM: 81/84 semester hours

I. FOUNDATION REQUIREMENTS [14 s.h.]

S.H. GR.

A. FAR 015: Drawing I	3		
B. ART 031: 2D Design	3		
C. FAR 016: Drawing II	3		
D. ART 032: 3D Design	3		
E. CDE 022: Digital Design I	2		

II. GENERAL REQUIREMENTS [28 s.h.]

S.H. GR.

A. CDE 122: Digital Design II	2		
B. CDE 130: Typography	3		
C. CDE 147: Visual Thinking	2		
D. CDE 140: Digital Translation	3		
E. CDE 141: Visual Translation	3		
F. CDE 151: Illustration Tech.	3		
G. FAR 162 ¹ : Intro to Photo: Digital OR FAR 151: Intro to Life Drawing <small>REQUIRED FOR ILLUSTRATION CONCENTRATION</small>	3		
H. CDE 220: Print Media Prod.	2		
I. CDE 231: Adv. Typography	2		
J. CDE 374: Portfolio Seminar	2		
K. CDE 398: Professional Practices	3		
L. CDE 399: Senior Exhibition	0		

¹ Could substitute FAR 161 Intro to Photography.

*Communication Design majors may substitute one CDE Studio elective for a workshop.

**To be eligible for a Communication Design internship featuring photography, you are required to take FAR: 161 or FAR 162: Intro to Photo as well as 2 additional photo courses. Place these photo courses where art electives are indicated on your check sheet. Also take ARH 321: The History of Photography when possible. Permission from instructor is needed to enroll in advanced photography courses.

***Art electives may be ART, CDE, CFT, FAR, TVR 150, 200. Note: up to 6 s.h. may be ACC, BUS, MGM, MKT.

III. SPECIALIZATION REQUIREMENTS [25/28 s.h.]

JUNIOR: Select 3 of 5: CDE 238: GD I, CDE 241: AD I, CDE 276: ID I, CDE 252: Illus. I, Art Elective

S.H. GR.

A.	4		
B.	4		
C.	3/4		

Select 2 of 5: CDE 239: GD II, CDE 242: AD II, CDE 277: ID II, CDE 253: Illus. II, Art Elective

S.H. GR.

D.	4		
E.	3/4		

SENIOR: Select 4 senior seminar courses or select 2 senior seminar courses and one art elective.

CDE 381: Sr. Des. Sem., CDE 382: Sr. Des. Sem., CDE 383: Sr. Adv. Sem., CDE 384: Sr. Adv. Sem., CDE 385: Sr. Interact. Sem., CDE 386: Sr. Interact. Sem., CDE 387: Sr. Illus. Sem., CDE 388: Sr. Illus. Sem. (See catalog for complete course names and descriptions.)

S.H. GR.

S.H. GR.

F.	2			G.	2		
H.	2/3			I.	2		

Graphic/Interactive/Advertising Design [13/14 s.h.]

S.H. GR.

J. *Wkshp	2			K. *Wkshp	2		
L. **CDE 394: Internship (2.87 QPA in major required) or 10 credits of ***Art Electives (9 credits if with this total the student has 81s.h. in the Major Program)				10/9			

Illustration [14 s.h.]

S.H. GR.

S.H. GR.

J. *Wkshp	2			K. *Wkshp	2		
1 or 2 workshops depending on total credits of art electives.							
L. 10 credits of ***Art Electives or Seminars							

IV. Additional Courses [not required]

S.H. GR.

DESCRIPTIONS OF SPECIALIZATION AREAS

GRAPHIC DESIGN

Graphic Design uses type and images to communicate concepts and information through catalogues, brochures, posters, books, packaging and magazine design. Junior graphic design students study symbology and editorial design. Senior graphic design students complete an in-depth study in corporate identity.

ADVERTISING DESIGN

Advertising Design utilizes words and images to reinforce concepts that promote and sell products and services to meet specific marketing strategies. Junior advertising design students study traditional media including print, outdoor, transit, television, radio and direct mail. This knowledge is combined in a senior level course, where students work to create complete campaigns for corporations, non-profit groups and new product roll-outs.

INTERACTIVE DESIGN

Interactive Design focuses on interface design and navigation theory for either web-based or computer-based content. Interactive design students study subjects necessary for creating unique and enriching experiences for humans accessing digitally based media including motion graphics, sound editing and usage and creating virtual space.

ILLUSTRATION

Illustration is the art of creating a visual image that will communicate a particular idea. Through the use of various materials, including pencil, paint, pastels and the computer, the illustrator crafts a picture for advertising, institutional, book, and editorial clients.

ADMISSION TO COMMUNICATION DESIGN

An art test is required for entrance into the Communication Design Program from High School. Please contact the Admissions Office. Transfer students are required to submit a portfolio of work for entry into the CD program. Please contact the Admissions Office.

INTERNAL TRANSFER

A portfolio and recommendation letters are required for an internal transfer to Communication Design. Please speak to the department secretary for instructions. The overall QPA requirement to be considered for an internal transfer into CD is a 2.87.

GRADUATION

The QPA requirement within Communication Design for Graduation is a 2.0.



COLLEGE OF VISUAL AND PERFORMING ARTS • BFA • CRAFTS

Program Number: UVPACFT

Version Number: 2128

Effective Date: Fall 2016

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE:	3		
D. Wellness: HEA 102			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES CHECKLIST

A. Writing Intensive (WI) (9 credits)			
COURSE: ARH 124WICT (suggested)	3		WI
COURSE: ARH 125WICT (suggested)	3		WI
COURSE:	3		WI
B. Quantitative Literacy (QL)			
OR Computer-Intensive (CP) (3 credits)			
COURSE: ART 171CP (suggested)	3		
C. Visual Literacy (VL)			
OR Communication-Intensive (CM) (3 credits)			
COURSE: ART 031VL (suggested)	3		
D. Cultural Diversity (CD) (3 credits)			
COURSE: CFT 372CD (suggested)	3		CD
E. Critical Thinking (CT) (3 credits)			
COURSE:	3		CT

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation.)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

COMPETENCY ACROSS THE CURRICULUM (CAC) are not additional courses.

They are "double counted" as fulfilling **both** the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

IV. COLLEGE DISTRIBUTION (12 credits)	RC	CR	GR	CAC
A. Humanities (3 credits): Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language.				
COURSE:	3			
B. Choose from the following (9 credits): ANT, ARA, ARC, ARH, AST, BIO, CDH, CHI, CHM, COM, CRJ, CSC, ECO, ENG, ENV, FRE, GEG, GEL, GER, HEA, HIS, HUM, INT, MAR, MAT, MCS, MUP, MUS, PAG, PEC, PHI, PHY, POL, PRO, PSY, RUS, SOC, SPA, SWK, THE, TVR, WGS, WRI.				
COURSE: ARH 124WICT (suggested)	3			
COURSE: ARH 125WICT (suggested)	3			
COURSE:	3			

PROGRAM #: UVPACFT

Version Number: 2168

Effective Date: Fall 2016

BACHELOR OF FINE ARTS: Crafts 120 credits

I. REQUIRED FOUNDATIONS: (12 credits)				
		CR	GR	GE CAC
A.	FAR 015: Drawing I	3		
B.	FAR 016: Drawing II	3		
C.	ART 031: Two-Dimensional Design	3		* VL
D.	ART 032: Three-Dimensional Design	3		* VL

II. REQUIRED ART STUDIOS: (18 Credits)				
		CR	GR	GE CAC
A.	ART 171: Computer Aided Modeling & Rendering	3		CP
B.	FAR 161 or 162: Photography I	3		* CP
C.	CFT 121: Ceramics	3		VL
D.	CFT 131 or 141: Textiles	3		VL
E.	CFT 151: Wood	3		VL
F.	CFT 161: Fine Metals	3		VL

III. CFT STUDIO REQUIREMENTS: (24 Credits)				
		CR	GR	GE CAC
A.	Area of Specialization: 15 cr. in <i>Ceramics, Textiles, Fine Metals</i>			
	1. CFT 3X1 Studio 1	3		* CT
	2. CFT 3X2 Studio 2	3		
	3. CFT 3X3 Studio 3	3		
	4. CFT 3X4 Studio 4	3		
	5. CFT 3X5 or ART 392 Studio 5 Internship	3		
B.	Additional Crafts Selections: 9 cr. to be selected from courses in: <i>Ceramics, Textiles, Fine Metals</i>			
	1. CFT :	3		
	2. CFT :	3		
	3. CFT :	3		

IV. Visual Arts Studies: (Credits 24)				
		CR	GR	GE CAC
A.	ARH 124: Intro to Western Art I	3		* CT WI
B.	ARH 125: Intro to Western Art II	3		* CT WI
C.	ARH Any Art History Elective	3		* CT WI
D.	ARC 200 or 300 Visual Culture Elective	3		* VL
E.	ARC 241: Color:	3		* VL/CD
F.	ARC 261: Survey of Crafts	3		* CD
G.	ART 211: Professional Practices: Digital Communication	3		
H.	CFT 381: Professional Practices: Entrepreneurial Studies	3		

V. OPEN ARTS ELECTIVES: (12 Credits)				
Any art course within the Visual Arts areas with ARC, ARH, ART, ARU, CDE, CDH, CFT, FAR, or FAS prefixes (<i>excluding</i> ART 010)				
		CR	GR	GE CAC
A.		3		
B.		3		
C.		3		
D.		3		

VI. CFT 399: STUDENT EXHIBITION				
		CR	GR	GE CAC
		0		

CR = Credits
 GR = Grade Earned
 GE = Meets A General Education Requirement
 CAC = Meets A Specific Competency Across the Curriculum Requirement

* = A course that also meets a General Education Requirement for the University, the College, or a Competency Across the Curriculum.

ARC 261 Survey of Craft and CFT 381 Professional Practices: Entrepreneurial Studies are offered every other year.



COLLEGE OF VISUAL & PERFORMING ARTS • DEPARTMENT OF FINE ARTS • BFA • STUDIO ART

Program Number: See page #3

Version Number: 20123

Effective Date: FALL 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: SPE 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE:	3		
D. Wellness: HEA 110 + activity; or 3-credit Wellness course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WST, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE: Intro to Western Art I : ARH124	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) PII Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) PII Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
 CR = Credits earned (fill in number of credits)
 GR = Grade earned (fill in letter grade)
 CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (12 credits)	RC	CR	GR	CAC
A. Social Science, Natural Science, and Mathematics (3 credits): Any ANT, CRJ, ECO, HIS, GEG, INT, PSY, POL, SOC, SWK, any lab or non-lab Science, or MAT				
COURSE:	3			
B. Arts and Humanities (9 credits): Any ARC, ARH, CDH, ENG, HUM, PAG, PHI, SPE, THE, WRI, WST, or Modern Language				
COURSE:	3			
COURSE:	3			
COURSE:	3			

Program effective dates are listed on other side.

MAJOR PROGRAM: 81 SH

Art History Advisement Notes:

1. Studio Art/Core: 63 SH	GR	SH
a. Foundation courses 12 SH**		
FAR 015 – Drawing I		3
FAR 016 – Drawing II		3
ART 031 – 2D Design		3
ART 032 – 3D Design		3
b. Studio Requirements: 21 SH		
FAR 111 – Intro to Painting		3
FAR 141 – Intro to Printmaking		3
FAR 151 – Intro to Life Drawing		3
FAR 161 – Intro to Photo—Darkroom OR FAR 162 – Intro to Photo—Digital		3
FAR 171 – Intro to Sculpture		3
FAR 182 – Intro to Digital Media		3
FAR 398 – Business of Art		3
FAR 399 – Student Exhibition		0
c. Art History Requirements: 12 SH***		
ARH 125-Intro Western Art II ARH 126-Intro Western Art III Both are required, 3 credits each		3 3
ARH 302, 303, 304, 305, 306, 307, 319, 385*		3
ARH – select any ARH		3
d. Art Electives: 18 SH (Select courses with the following prefixes: ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS– excludes all foundation courses and ARC 015 and FAR/CIS 020/021.) <i>*Maximum ASE 880, CFT 880, CDE 880 is 3 cr.</i>		
		3
		3
		3
		3
		3
		3

*ARH 385- This fulfills the non-modern requirement as long as it is pre-1780 or non-western.

*** ARH 124, ARH 125, and ARH 126 are required. (ARH 124 is taken in General Education Humanities; ARH125 and ARH 126 are taken here.) At least one 300 level ARH must be in pre-Modern (exclude ARH 308, 309, 321, 334, 338).

Studio Advisement Notes:

** These courses are prerequisites for all studio courses.

*

2. Studio Concentration: 18 SH**** (See other side for 300* level course selections for each concentration. *Some concentrations include 200 level courses from other depts.)	GR	SH
		3
		3
		3
		3
		3
		3

*** Prerequisites for 300 level concentration courses must go under Studio Requirements I.B or Art Electives I.D. Introductory Studio courses are best taken during the Sophomore year or at the beginning of the Junior year.



COLLEGE OF VISUAL AND PERFORMING ARTS • BS • ART EDUCATION ALTERNATIVE SETTINGS

Program Code: UVPAARTEDA

Version: 2152

Effective Date: January 20, 2015

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE: COM 105 (suggested)	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 or higher (suggested)	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE: Any ENG LIT course (suggested)	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE: ARH 124WICT (suggested)	3			
E. Free Elective: Any course carrying university credit				
COURSE: Professional Elective	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE: ARC 200VLWI (suggested)	3			WI
COURSE: ARH 124WICT (suggested)	3			WI
COURSE: ARH 125WICT (suggested)	3			WI
B. Quantitative Literacy (QL) (3 credits) Computer-Intensive (CP) (3 credits)				
COURSE: ART 182 (suggested)	3			
C. Visual Literacy (VL) (3 credits) Communication-Intensive (CM) (3 credits)				
COURSE: ARC 200VLWI (suggested)	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE: ARU 331CD, ARU 332 or SPU 314CD (suggested)	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University core) the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A., and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (12 credits)	RC	CR	GR	CAC
A. Mathematics (3 credits): MAT 017 or above				
COURSE: MAT 104 or higher (suggested)	3			
B. Social Science (3 credits): Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: PSY 011(suggested)	3			
C. Arts and/or Humanities (6 credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUS, MUP, PAG, PHI, THE, WGS, WRI, or Modern Language				
COURSE: ARH 125 (suggested)	3			
COURSE: ARC 200VLWI (suggested)	3			

A portfolio is required for entrance into the Art Education major. See Department Office or website for guidelines

* See suggested course on major program plan.

Department of Art Education and Crafts
Kutztown University

PROGRAM UVPAARTEDA

Effective Date: January 20, 2015

ALTERNATIVE SETTINGS – MAJOR PROGRAM: 123 CREDITS

CO CR GR

I. EDUCATION COURSES: (21 credits)	CR	GR	GE	CAC
A. ARU 110: Art, Craft & Design – (pre-K-4)	4			
B. ARU 210: Art, Craft & Design- (5-6)	4			
C. ARU 331: Designing for Disabilities	3			CD
D. ARU 310: Art, Craft & Design – (9-12)	4			
E. ARU 301: Art Education Field Experience	3			
F. ARU 330: Studio Thinking	3			

II. STUDIO - FOUNDATIONS: (15 credits)	CR	GR	GE	CAC
A. ART 031: Two-Dimensional Design	3			VL
B. ART 032: Three-Dimensional Design	3			VL
C. FAR 015: Drawing I	3			
D. FAR 016: Drawing II	3			
E. ART/FAR 182: Intro to Digital Media	3			CP

III. ART STUDIO – BREADTH: (15 credits)	CR	GR	GE	CAC
A. CFT 121: Intro to Ceramics	3			
B. FAR 111: Intro to Painting	3			
C. FAR 161 or 162: Introduction to Photography (Darkroom or Digital)				
D. Fine Arts FAR 131: Intro to Watercolor FAR 141: Intro to Printmaking FAR 151: Intro to Life Drawing FAR 171: Intro to Sculpture	3			
E. Crafts CFT 131: Intro to Weaving CFT 141: Intro to Textiles/Materials Studies CFT 151: Intro to Wood Design CFT 161: Intro to Fine Metals	3			
F. Design & Media Arts ART 171: Computer Aided Mod. & Rend. ART 231: Digital Animation ARC 241: Color ARU/ART 331: Designing for Disabilities	3			CP CV, VL, CD

IV. ART STUDIO – DEPTH ## (6 credits)	CR	GR	GE	CAC
A. 200+ concentration studio	3			
B. 200+ concentration studio	3			

V. *PROFESSIONAL ELECTIVE: (3 credits) (NOT ARC 015, ARH 024 and ARH 025)	CR	GR	GE	CAC
A. Elective: ARC, ARH, ART, CDE, CDH, CFT, FAR, FAS	3		*	

VI. ART HISTORY, CRITICISM & THEORY (12 credits) CR GR GE CAC	CR	GR	GE	CAC
A. ARH 124: Intro to Western Art I	3		*	
B. ARH 125: Intro to Western Art II	3		*	
C. ARC 200: Visual Culture: Critical Theory	3		*	VL, WI
D. ARC 300: Visual Culture: Critical Practice	3			

VII. HUMANITIES & SOCIAL SCIENCES (9 credits) CR GR GE CAC	CR	GR	GE	CAC
A. ENG: Literature	3		*	
B. PSY 11: General	3		*	
C. COM 105: Business & Prof. Speaking	3		*	

VIII. ALT SETTINGS – BREADTH (6 credits) CR GR GE CAC	CR	GR	GE	CAC
A. ARU 332: Teaching Art in Alt. Settings	3			
B. ARU 335: Integrated Curriculum	3			

IX. ALT SETTINGS ### Depth (9 credits) CR GR GE CAC	CR	GR	GE	CAC
MUSEUM SETTINGS -				
ARH / ARC / ANT	3			
ARH / ARC / ANT	3			
ARH / ARC / ANT	3			
HEALTH SETTINGS				
PSY	3			
PSY	3			
PSY	3			
COMMUNITY SETTINGS				
ANT / COM / SOC / SWK / WRI	3			
ANT / COM / SOC / SWK / WRI	3			
CFT 381 Crafts Seminar or a course appropriate for your concentration	3			

X. ALT SETTINGS ### ELECTIVES (9 credits) CR GR GE CAC	CR	GR	GE	CAC
Any	3			
Any	3			
Any	3			

XI. ARU 399: SENIOR EXHIBITION	0			
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CR = Credits

GR = Grade (fill in)

GE = *Fulfills a General Education Requirement

CAC = Fulfills a Competency Across the Curriculum Requirement on the General Education Sheet

* = A course that also meets a General Education Requirement for the University, the College, or a Competency Across the Curriculum.

ARU 110, 210, 310, 301 must be taken in sequence

ART STUDIO DEPTH-(200-300 level) choose 6 credits in a single ARTFORM in any of the following categories:

CRAFTS = Ceramics, Textiles, Fine Metals, Furniture

FINE ARTS = Drawing, Painting, Printmaking, Sculpture

DESIGN & MEDIA ARTS = Photography, Digital Media, Animation, 3D Animation

Choose between one of the three areas of emphasis:

Museum Settings, Health Settings, or community Settings.

The electives should be chosen in consultation with your advisor to provide professional understanding related to your choice of settings.



COLLEGE OF VISUAL & PERFORMING ARTS
BACHELOR OF SCIENCE • CINEMA, TELEVISION AND MEDIA PRODUCTION

Program Code: UVPATVR

Version: 2178

Effective Date: 8/28/2017

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	
A. Oral Communication: COM 010 or above				
COURSE:	3			
B. Written Communication: ENG 023, 024, or 025				
COURSE:	3			
C. Mathematics: MAT 017 or above				
COURSE:	3			
D. Wellness: Any 3-credit HEA course				
COURSE:	3			

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE COURSE Recommended: : FAR 062 Digital Photo for Non Art Majors				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE: CTM 70 (suggested)	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) Computer-Intensive (CP) (3 credits)				
COURSE: CTM 365 (recommended)	3			
C. Visual Literacy (VL) (3 credits) Communication-Intensive (CM) (3 credits)				
COURSE: CTM 130 (suggested)	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE: CTM 130 (suggested)	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A., and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Mathematics or Social Science (3 credits): MAT 17 or higher or any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Science (3 credits): Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Arts and/or Humanities (9 credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUS, MUP, PAG, PHI, THE, WGS, WRI, or Modern Language				
COURSE:	3			
COURSE:	3			
COURSE:	3			

B. S. Cinema, Television and Media Production

Program Code: UVPATVR

Version: 2178

Effective Date: 8/28/2017

Department of Cinema, Television and Media Production

MAJOR PROGRAM 60 S.H.

1. Required CTM Courses: 51 S.H.	RC	CR	GR	CAC
CTM 10 Introduction to Cinema, Television and Media	3			
CTM 50 Audio Production	3			
CTM 55 Fund. of Video Production	3			
CTM 70 WI Scriptwriting	3			WI
CTM 130 CTVL Media Theory & Aesthetics	3			CTVL
CTM 140 Lighting	3			
CTM 206 Masterpieces in Film History	3			
CTM 220 Media Law and Ethics in the Digital Age	3			
CTM 250 Engineering and Troubleshooting	3			
CTM 255 Field Production	3			
CTM 365 CP Post Production	3			CP
CTM 375 Live Event Production	3			
CTM 380 Senior Seminar in Cinema, Television and Media Production	3			
CTM 390 Internship in Cinema, Television and Media Production	12			
2. CTM Electives: 9 S.H.				
<i>Choose from any non-required CTM courses.</i>				
COURSE:	3			
COURSE:	3			
COURSE:	3			

FREE ELECTIVES: 18 S.H. (See Note 1 below.)

	RC	CR	GR	CAC
COURSE:	3			

Notes:

1. Students are encouraged to pursue a minor.
2. In order to be cleared for graduation, all majors must earn a "C" or higher in all Required and Elective CTM courses and earn a P on their Senior Portfolio.



COLLEGE OF VISUAL AND PERFORMING ARTS • BS • MUSIC EDUCATION

Program Code: UVPAMUSED

Version: 2158

Effective Date: August 24, 2015

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits) RC CR GR

A. Oral Communication: COM 010 or above			
COURSE:	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE: MAT 103 or higher (suggested)	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits) RC CR GR CAC

A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: PSY 011 (suggested)	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE: Any ENG LIT course (suggested)	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE: MUS 230CP (suggested)	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM RC CR GR CAC

A. Writing Intensive (WI) (9 credits)				
COURSE: MUU 100WI (suggested)	3			WI
COURSE: MUS 311WI (suggested)	3			WI
COURSE: MUS 312 CDWI (suggested)	3			WI
B. Quantitative Literacy (QL) (3 credits) Computer-Intensive (CP) (3 credits)				
COURSE: MUS 230CP (suggested)	3			
C. Visual Literacy (VL) (3 credits) Communication-Intensive (CM) (3 credits)				
COURSE: MUU 222VL (suggested)	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE: MUS 312CDWI (suggested)	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE: MUU 390CT (suggested)	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

- RC = Minimum required number of credits
- CR = Credits earned (fill in number of credits)
- GR = Grade earned (fill in letter grade)
- CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A., and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (12 credits) RC CR GR CAC

A. Mathematics (3 credits): MAT 017 or above				
COURSE: MAT 104 or higher (suggested)	3			
B. Social Science (3 credits): Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: PSY 140 (suggested)	3			
C. Arts and/or Humanities (6 credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUS, MUP, PAG, PHI, THE, WGS, WRI, or Modern Language				
COURSE: MUS 311WI (suggested)	3			
COURSE: MUS 312CDWI (suggested)	3			

V. SPECIALIZATION: 93 S.H.

A. Required Music Courses: (32 credits)		RC	CR	GR	GE	CAC
MUS 101	Aural Skills I##+	2				
MUS 102	Harmony & Theory I##+	3				
MUS 201	Aural Skills II##+	2				
MUS 202	Harmony & Theory II##+	3				
MUS 214	Harmony & Theory III##+	3				
MUS 213	Aural Skills III##+	2				
MUS 230	Intro to Music Technology+*	3			*	CP
MUS 310	Composition & Arranging##+	3				
MUS 311WI	Music/Ancient Times to 1750##+*	3			*	WI
MUS 312CDWI	Music/1750 to Present##+*	3			*	CDWI
MUS 325	Conducting (Vocal & Instrumental)##+	2				
MUS 326	Advanced Conducting	1				
B. Applied Music Courses: (17 credits)						
MUP	Major Performance Area #	1				
MUP	Major Performance Area #	1				
MUP	Major Performance Area #	1				
MUP	Major Performance Area #	1				
MUP	Major Performance Area #	1				
MUP	Major Performance Area #	1				
MUP	Major Performance Area #	1				
MUS 224	Class Piano III+ (except Piano majors)	1				
MUS 079	Voice Class I+	1				
MUP	Large Ensembles in major area	1				
MUP	Large Ensembles in major area	1				
MUP	Large Ensembles in major area	1				
MUP	Large Ensembles in major area	1				
MUP	Large Ensembles in major area	1				
MUP	Small Ensembles in major area	1				
MUP	Small Ensembles in major area	1				
MUP 399	Senior Recital#	1				
C. Music Education Courses: (17 credits)						
MUU 220	Elementary Music Methods##+	3				
MUU 222VL	Secondary Music Methods##+	3				VL
MUU 231	String Techniques##+	1				
MUU 232	Woodwind Techniques##+	1				
MUU 233	Brass Techniques##+	1				
MUU 234	Percussion Techniques##+	1				
MUU 299	Music Ed Lab ##+	1				
MUU 299	Music Ed Lab ##+	1				
MUU 299	Music Ed Lab ##+	1				
MUU 320	Instrumental Methods##+	3				
MUU 322	Choral Methods##+	3				
D. Professional Courses: (15 credits)						
MUU 100WI	Overture to Music Ed##+	3				WI
EDU 150	English Language Learners	3				
SPU 201	Cognitive Dev of Diverse Learners	3				
SPU 314	Eff Instr Strategies for Students w Disabilities	3				
SPU 316	Literacy Dev & Instruction in Core & Intervention Areas	3				
E. CLINICAL COMPONENT: (12 credits)						
MUU 390CT	Clinical Experience I#	6				CT
MUU 391	Clinical Experience II#	6				

VI. Social Science: (6 credits)

PSY 011	General Psychology*	3			*	
PSY 140	Educational Psychology*	3			*	

CR	Credits
GR	Grade (fill in)
GE	Fulfills a General Education Requirement
CAC	Fulfills a Competency Across the Curriculum Requirement on the General Education Sheet
#	These courses require a "C" or better – the student must achieve a "C" or better in the Major Performance Area to continue as a Music Education Major.
+	These courses are required prior to Clinical Experience
*	Fulfills a General Education Requirement



COLLEGE OF VISUAL AND PERFORMING ARTS • BS • SOCIAL MEDIA THEORY AND STRATEGY

Program Code: UVPASMS

Version: 2178

Effective Date: August 28, 2017

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 010 or above			
COURSE: COM 105 (suggested)	3		
B. Written Communication: ENG 023, 024, or 025			
COURSE:	3		
C. Mathematics: MAT 017 or above			
COURSE:	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University core) the major, or the minor.

- RC** = Minimum required number of credits
- CR** = Credits earned (fill in number of credits)
- GR** = Grade earned (fill in letter grade)
- CAC** = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 040, 322, and 323 may be used in II.A., and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Mathematics (3 credits): MAT 017 or above				
COURSE: MAT 105 (suggested)	3			
B. Social Science (3 credits): Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, POL, PSY, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE: ECO 11 (suggested)	3			
C. Arts and/or Humanities (9credits): Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, ENG, FAR, FAS, HUM, MUS, MUP, PAG, PHI, THE, WGS, WRI, or Modern Language				
COURSE:	3			
COURSE:	3			
COURSE:	3			

Department of Communication Studies
Kutztown University

PROGRAM: UVPASMS

Version Number: 2178

Effective Date: August 28, 2017

SOCIAL MEDIA THEORY AND STRATEGY – MAJOR PROGRAM

I. REQUIRED CORE: (24 credits)	CR	GR	GE	CAC
SMS 101: Intro to Social Media Theory & Strategy	3			
MKT 210: Principles of Marketing	3			
WRI 250: Writing for Social Media	3			
COM 305: Theories of Emerging & Social Media	3			
ENG/COM 314: Social Media Analytics	3			
MKT 351: Social Media Concepts & Planning	3			
SMS/COM 224: Social Media Ethics –or- MKT 315: Marketing Ethics in Society	3			
COM 245: New Media & Communication –or- ENG/WRI 333: Digital Rhetoric & Writing	3			

II. PROGRAM ELECTIVES: (24 credits) Choose from lists on right	CR	GR	GE	CAC
GROUP A (THEORY)-(12 credits)				
Group A course:	3			
Group A course:	3			
Group A course:	3			
Group A course:	3			
GROUP B (STRATEGY)-(12 credits)				
Group B course:	3			
Group B course:	3			
Group B course:	3			
Group B course:	3			

III. SENIOR EXPERIENCE (6 credits)	CR	GR	GE	CAC
SMS 380: Social Media Internship	3			
SMS 390: Capstone	3			

IV. FREE ELECTIVES (24 credits) – Any course carrying university credit and not used elsewhere in the program.

Suggestions:

- Students are encouraged to work toward a minor.
- Students may complete additional internship credits.
- Students may select additional courses from Section II. Restricted Electives.

Course:	3			

GROUP A (THEORY) PROGRAM ELECTIVES

CDH 150CD: Historical Survey of Graphic Design A	3
CDH 151CD: Historical Survey of Graphic Design B	3
COM 245: New Media & Communication*	3
COM 360: The Digital Self	3
ENG 316: Rhetoric, Democracy, Advocacy	3
ENG 358: Rhetoric of Style	3
MAT 123: Discrete Math	3
MKT 315: Marketing Ethics in Society**	3
PRO 210: Entrepreneurship	3
SMS/COM 224: Social Media Ethics**	3

GROUP B (STRATEGY) PROGRAM ELECTIVES

CSC 020CPVL: Computer Graphics	3
CSC 120CPVL: Intro Creative Graphic Coding	3
CSC 122: Website Design	3
CSC 220CPVL: Object-Oriented Multimedia Programming	3
ENG 318: Activists Writing Media	3
ENG/WRI 333: Digital Rhetoric & Writing*	3
ENG/WRI 339 New Media, Story, Change	3
MKT 362: e-Commerce Marketing	3
WRI 216: Writing for Public Relations	3
WRI 220: Technical Writing & Communication	3
WRI 226: Desktop Publishing	3
WRI 321: Information Design	3

*Note: Students are required to take *either* COM 245 or ENG/WRI 333 in Section I. Required Core. Students are free to take *both* courses and use one within the appropriate group of Section II. Restricted Electives.

**Note: Students are required to take either SMS/COM 224 or MKT 315 in Section I. Required Core. Students are free to take *both* courses and use one within the appropriate group of Section II. Restricted Electives.

Minor Program: Art Education (18 S.H.) Department of Art Education & Crafts	Program #: UVPAARU2 Version #: 2182 Program Effective: January 22, 2018
Open to the follow majors: Fine Art, CD, Art History, Craft or permission of the department. Art Education majors are excluded from this minor program.	Check Sheet Reviewed: 3/2017

I. Courses in Minor: 18 S.H.	GR	SH
ARU 110: Explorations in Art		4
ARU 210: Learning in the Visual Arts: Childhood		4
ARU 310: Learning in the Visual Arts: Adolescence		4
ARU 331: Designing for Disabilities		3
ARU 330: Studio Thinking		3

Minor Program:
Minor in Art History
 (18 S.H.)
 Department of Art and Art History

Program #: UVPAARTHI2
 Version #: 2178
 Program Effective: Fall 2017
 Check Sheet Reviewed: 12/2016

I. Courses in Concentration: 9S.H.	GR	SH
The courses listed below are required		
ARH024 or ARH124 – Art History A		3
ARH025 or ARH125 -Art History B		3
ARH026 or ARH126 – Art History C		3

II. Elective Courses: 6S.H.*	GR	SH
Select 6 S.H. of 300 level ARH courses		
		3
		3

III. Professional Experience: 3S.H.	GR	SH
Select 3 S.H. in an internship applicable to art history		
ARH 390: Intern ship in Art History		3

* All course prerequisites must be met. Students majoring in one of the visual arts areas are required to take 124, 125 and 126; non-visual arts students may fulfill these requirements with 024,025 and 026.

A total of 6 courses totaling 18 credits is required for the minor in Art History. All students must complete Art History A, B, and C, two upper division art history courses, and one internship applicable to professional preparation in art history.

Minor Program:
COMMUNICATION STUDIES (18 S.H.)
Department of Communication Studies & Theatre

Program # 00080
Version # 20123
Program Eff.: Fall 2011
Check Sheet Rev.: 4/10

I. REQUIRED COURSES: 3 cr.

COM 101 Introduction to Communication
Studies.....3 cr.

II. ANY LEVEL COM COURSE: 6 cr.

Select any COM course except COM 010

COM any level.....3 cr.
COM any level.....3 cr.

III. UPPER LEVEL COM COURSES:9 cr.

Select COM course at 200 level and above

COM 200 or above.....3 cr.
COM 200 or above.....3 cr.
COM 200 or above.....3 cr.

Minor Program: **Crafts** (18 S.H.)
 Department of Art Education & Crafts

Program #: UVPACRAFT2
 Program Effective: August 25, 2014
 Check Sheet Reviewed: 2/2014

I. Courses in Concentration: 9 S.H.	GR	SH
Select 9 S.H. from <u>one</u> of the following Craft areas: Ceramics, Textiles, Fine Metals, or Wood.		
CFT		3
CFT		3
CFT		3

II. Elective Courses: 9 S.H.	GR	SH
Select 9 S.H. from any other courses with a CFT prefix. (excluding CFT 381-Senior Craft Seminar)		
CFT		3
CFT		3
CFT		3

Minor Program

Electronic Media

Department of Electronic Media (21 S.H. minimum)

Program: UVPAELEME2

Version: 2158

Program Effective: August 24, 2015

1. Required Courses (9 s.h.).	RC	CR	GR	CAC
TVR 50 Audio Production	3			
TVR 55 Fund. of Video Production	3			
TVR 130CTVL Media Theory & Aesthetics	3			CT/ VL
2a. Elective Courses - Students must select 3 courses from the following: (9 s.h.)				
TVR 70WI Scriptwriting for Elec. Media	3			WI
TVR 140 Video Lighting	3			
TVR 205 Narrative Video Production	3			
TVR 206 Masterpieces in Film History	3			
TVR 218 Studio Production Practicum	3			
TVR 226 Ethical Issues in Electronic Media	3			
TVR 255 Video Field Production	3			
TVR 331 Copyright and Intellectual Property	3			
	3			
2b. Students must select 1 course with a TVR prefix. Courses may not include TVR 380 or TVR 390 (3.s.h.)				
	3			

Notes:

1. Academic Minors MUST reflect a minimum of 6 credits of advanced standing coursework in the minor. Advanced standing coursework are courses 200 or higher. .

<h1 style="margin: 0;">Minor Program: Music History</h1> <p style="margin: 0;">Department of Music 18 S.H.</p>	Program #	UVPAMUSH2
	Effective:	January 20, 2015
	Revised:	

REQUIRED COURSES: 9 S.H.			
<i>Take each of the following courses:</i>	GR.	S.H	CAC
MUS 010 Introduction to Music (Music majors may substitute MUS 312)		3	CT
MUS 106 History of Rock and Roll		3	CD
MUS 108 Introduction to World Music		3	CD
		.	
ELECTIVE COURSES: 9 S.H.			
<i>Select three of the following courses:</i>	GR.	S.H	CAC
MUS 113 Introduction to Film Music		3	VL
MUS 209 Women in Music		3	CDWI
MUS 215 American Music		3	
MUS 217 The Music of Poetry		3	
MUS 220 Modern Music Since 1900		3	
MUS 225 Jazz: Its History and Influence		3	
MUS 228 History of American Musical Theater		3	
MUS 318 Symphonic Repertoire		3	
		.	
OPTIONAL ELECTIVE COURSES: 3 S.H.			
<i>As a substitute for one of the elective courses above, student may substitute 3 hours of private or ensemble instruction</i>	GR.	S.H	CAC
Ensemble Instruction		.	
MUP #		1	
MUS #		1	
MUS #		1	
Private Instruction		.	
MUP #		1	
MUP #		1	
MUP #		1	

**Minors MUST reflect a minimum
of 6 credits of advanced standing
coursework in the minor.**

**Advanced standing coursework
are courses 141 or higher.**

Minor Program: Music

Department of Music

18 S.H.

Program #	00046
Version #	20083
Effective:	August 25, 2014
Rev:	8/19/14

REQUIRED COURSES: 12 S.H.

1. Classroom Instruction: 8 S.H.	GR.	S.H.	CAC
Take each of the following courses:			
MUS 010 Intro. To Music Literature		3	CT
MUS 101 Aural Skills I		2	
MUS 102 Harmony & Theory I (Prerequisite of MUS 020 or equivalent)		3	
Note: MUS 020 (Basic Concepts and Skills of Music) or its equivalent, is a prerequisite for MUS 102. MUS 020 may be used as a Music Elective.			

Academic Minors MUST reflect a minimum of 6 credits of advanced standing coursework in the major. Advanced standing coursework are courses 141 or higher.

2. Ensemble Instruction: 2 S.H.	GR.	S.H.
Take credits from any Dept. of Music ensembles. (An audition with the Ensemble Director is required)		
MUP		1
MUP		1

ELECTIVE COURSES: 6 S.H.		
With the guidance of a Music advisor, select credits from any MUS or MUP course. (Do not select MUS 223, 229, 311, 312, 380, or 391)		
Electives	GR.	S.H.

3. Private Instruction: 2 S.H.	GR.	S.H.
Take credits from among any private lessons offered by the Dept. of Music, or Voice Class.		
MUP #		1
MUP #		1

Notes

These courses require a "C" or better. The student must achieve a "C" or better to continue as a Music Minor.

Minor Program: Performance and Storytelling

Department of Communication Studies, 18 S.H.

Program #	UVPACOMPS2
Version #	2178
Effective:	Fall 2017
Check Sheet Reviewed:	9/13/16

REQUIRED COURSES: 9 S.H.		
Course Title	GR.	S.H.
THE 15 Introduction to Theatre		3
COM 201 Storytelling 1 Or THE 31-CM Introduction to Acting		3
COM 216-CDCM Performance of Literature Or COM/WGS 237 Women Writers in Performance		3

ELECTIVE COURSES: 9 S.H.		
Student must select three courses from the Elective Courses List that are not used in Required Courses:		
Course Title	GR.	S.H.
		3
		3
		3

ELECTIVE COURSES LIST
THE 31-CM Introduction to Acting...3cr.
COM 151 Voice & Diction...3 cr.
COM 201 Storytelling I...3 cr.
THE 210 Production & Performance for Young Audiences...3 cr.
COM 216-CDCM Performance of Literature...3 cr.
COM/MUS 217 Music and the Spoken Word...3 cr.
COM 225 Adv. Solo Performance Of Texts I...3 cr.
COM/WGS 237 Women Writers In Performance...3 cr.
COM 250 Latino/a Performance...3 cr.
COM 301 Performance and Culture...3 cr.
COM 320 Group Performance...3 cr.
COM 370 Independent Study in Communication (3 cr. only; must be performance or storytelling-centered)

MINOR PROGRAM: PUBLIC RELATIONS

Departments of English & Communication Studies & Theatre

I. REQUIRED COURSES 12 credits

		grade	cr.
COM 170	Intro. to Public Relations		3
WRI 211 WI	Journalism I		3
WRI 216 WICM	Writing for Public Relations		3
COM 235	PR Cases & Campaigns or		3
COM 241	PR Processes and Techniques prerequisite for both is COM 170		

II. ELECTIVES 6 credits

Students must select two of the following courses:

		grade	cr.
WRI 207 WICT	Writing for the Workplace		3
COM/WRI212 WICT	Intro to Mass Communication		3
WRI 226 WICP	Desktop Publishing: Writing and Editing Newsletters prerequisite is WRI 211		3
COM 235	PR Cases & Campaigns prerequisite is COM 170		3
COM 241	PR Processes & Techniques prerequisite is COM 170		3
COM 245 CM	New Media and Communication		3
COM 274	Organizational Communication		3
COM 311	Crisis Communication prerequisite is COM 170		3
WRI 316 WI	PR for the Corporate Environment prerequisite is WRI 207		3
WRI 321 WI	Information Design prerequisite is WRI 220 restricted to PW majors		3
WRI 426	Writing by Design: Advanced Desktop Publishing Prerequisites are WRI 211 & 226		3

1. Students must have at least a "B" in ENG 023, ENG 025, or their equivalent before taking any course in Professional Writing.
2. Course substitutions require written permission from the Dean of Liberal Arts & Sciences or the Dean of Visual & Performing Arts.
3. Only 3 credits of Internship may be used in the Public Relations minor.
4. Students are encouraged to take College of Business courses to complement this minor.

III. PRACTICUM 3 credits

COM 336	On-Campus PR Workshop		3
WRI 390	Writing Internship (in public relations)		3
COM 390	Speech/Communication Internship (in public relations)		3

Program: UVPA FAR2

Version Number: 2182

Effective Date: 01/22/2018

MINOR IN STUDIO ART: 18 SH

I. Required Course: 3 SH	GR	SH
		3
Select one the following courses: FAR 014 Elements of Drawing for Non-Majors FAR 061 Intro to Darkroom Photo for Non-Majors FAR 062 Intro to Digital Photo for Non-Majors		

II. Elective Courses: Minimum 6 SH up to 9 SH	GR	SH
		3
		3
Select at least two of the following courses (only one may be ARH): FAR 016 Drawing II FAR 111 Intro to Painting FAR 131 Intro to Watercolor FAR 141 Intro to Printmaking FAR 151 Intro to Life Drawing FAR 161 Intro to Photo/Darkroom *NOT if you've taken FAR 061 FAR 162 Intro to Photo/Digital *NOT if you've taken FAR 062 FAR 171 Intro to Sculpture ART/FAR 182 Intro to Time-Based Media ARH 024 or ARH 025 or ARH 026 or ARH 124 or ARH 125 or ARH 126		

III. FAR OR FAS 200-300 level courses: Minimum 6 SH up to 9 SH	GR	SH
		3
		3

INTERDISCIPLINARY PROGRAMS

Minors

Women's and Gender Studies

Digital Communication and New Media

Entrepreneurship

Supply Chain Management and Logistics

Multicultural Studies



COLLEGE OF VISUAL & PERFORMING ARTS • MINOR • DIGITAL COMMUNICATION & NEW MEDIA

Program Code: UACADCNM2

Version Number: 2158

Effective Date: August 25, 2015

I. REQUIRED COURSES

9 credits

		grade	cr.
COM 245	New Media & Communication		3
ENG/WRI333	Digital Rhetoric		3
TVR 130CTVL	Media Theory & Aesthetics		3

II. ELECTIVES

9 credits

Students must select *any* three courses on the back of this page:

II. ELECTIVES

9 credits

Students must select *any three courses* below:

Course #	Course Name	Credits	Course #	Course Name	Credits
COM105	Business & Professional Presentations	3	LIB018	Materials & Search Strategies	3
COM 212 WICT	Intro to Mass Communication	3	LIB326	Digital Citizenship	3
COM 219CT	Integrated Marketing	3			
COM 274	Organizational Com	3	SOC 214VL	Sociology of Visual Culture	3
COM 280	Training & Development	3			
COM 295	Popular Culture	3	TVR 050	Audio Production	3
COM 307 VLCT	Rhetoric of Visual Media	3	TVR 055	Fundamentals of Video Production	3
COM 350 CT	Leadership	3	TVR 070WI	Scriptwriting for Elect. Media	3
			TVR 205	Narrative Video Production	3
CSC020CPVL	Computer Graphics	3	TVR220	Communication Law	3
CSC120	Intro Creative Graphic Coding	3	TVR226	Ethical Issues in Electronic Media	3
CSC122	Website Design	3	TVR255	Video Field Production	3
			TVR331	Copywriting & Intellectual Property	3
ENG 219 CT	Culture & Media	3			
ENG 244	Documentary Film & Theories of Representation	3	WRI 211	Journalism	3
ENG 318	Activists Writing Media	3	WRI 212 WICT	Intro to Mass Communication	3
ENG 382	Film Production Theory	3	WRI 220 WI	Technical Writing and Communication	3
			WRI 226 WICP	Desktop Publishing	3
ITC347	Emerging Technology	3	WRI 244	Story Analysis & Screenplay Develop	3
ITC348	Electronic Portfolios	3	WRI 303 WI	Investigative Journalism	3
			WRI 321WI	Information Design	3
			WRI 342	Screenwriting-Web Series	3



Program Code: UACA ENT2

Version: 2158

Effective Date: August 24, 2015

MINOR PROGRAM

Entrepreneurship

MINOR PROGRAM (18 Credits)

I. Required Courses (9 Credits)		RC	CR	GR
1. Select one of the following: PRO210 (3 Credits) SPA363 (3 Credits) MGM327 (3 Credits)	Entrepreneurship for the Non-Business Major Spanish and Entrepreneurship Small Business Management	3		
2. Select one of the following: COM350 (3 Credits) or PRO130WI (3 Credits)	Leadership: A Communication Perspective Practical Leadership	3		
3. Internship (3 Credits)	Internship in Field of Study**	3		
II. Minor Electives* (9 Credits)	Select 9 credits from the attached course list			
1. Elective (3 Credits)		3		
2. Elective (3 Credits)		3		
3. Elective (3 Credits)				
	*At least 6 credits of minor electives must be at the 200 level or higher.			
Total Credits		18		
III. Additional Requirements:				
1. Student must complete:	Certificate in Career Exploration & Career Success	<input type="checkbox"/> yes	<input type="checkbox"/> no	
2. Student must complete:	Written Description of How Electives Support Career Plan	<input type="checkbox"/> yes	<input type="checkbox"/> no	

All courses must be completed with a grade of "C" or higher

**With approval of Director of the Entrepreneurial Leadership Center

Minor Program: Multicultural Studies (18 S.H.minimum)	Program #	00045
	Version #	20046
	Effective:	Spring 2004
	Check Sheet Reviewed:	8/08

I. Required Courses: 6S.H.	GR	S.H.
MCS 010 Intro. to Multicultural Studies		3
MCS 370 Selected Research Topics or MCS 380 Seminar in Multicultural Studies or MCS 390 Internship in Multicultural Studies		3

2. Elective Courses: 1 2 S.H.	GR	S.H.
Select four courses from the list below:		
		3
		3
		3
		3

Approved Elective Courses:

ANT 101	North American Indians
EDU 496	Multicultural Education
ENG 234	Ethnic American Literature
ENG 236	Black American Literature: Poetry/Drama
ENG 237	Black American Literature: The Novel
HIS 150	Minorities in American History
HIS 240	African American History
HIS 244	The Immigrant in American History
INT 101	Intercultural Communication
SPE 213	Communication in a Multicultural World
NUR 116	Achieving Wellness: A Multicultural Perspective in the U.S.
PSY 215	Psychology of Prejudice



COLLEGE OF BUSINESS • BSBA • MINOR PROGRAM: SUPPLY CHAIN MANAGEMENT AND LOGISTICS

Program Code: UCOBSCML2

Version Number: 2158

Effective Date: 8/24/2015

MINOR PROGRAM: SUPPLY CHAIN MANAGEMENT AND LOGISTICS

I. MINOR PROGRAM (18 credits)

RC CR GR

A. Required Courses: (12 credits)			
MGM 315 Management Science	3		
MGM/MKT 361 Principles of Business Logistics	3		
MGM 362 Supply Chain Planning and Management	3		
MGM 363 Transportation Management	3		

B. Elective Courses: (Select 2: 6 credits)			
ACC 305 Cost Accounting	3		
ACC 312 Accounting Information Systems	3		
BUS 310 Advanced Business Computer Application	3		
ECO 360CD International Trade and Finance	3		
GEG 220 Economic Geography	3		
GEG 274CPQL Introduction to GIS	3		
BUS 390 Business Internship (only a verified internship in Supply Chain Management & Logistics Field)	3		

NOTES: If you register for a course without the prerequisites you will be dropped from the course. THIS MINOR IS FOR BSBA DECLARED MAJORS ONLY.

Most courses in this minor have prerequisites. Please check MyKU for each course specific prerequisite.

For more information, contact the Department of Business Administration, DF 233.

A BSBA candidate can complete the Supply Chain Management and Logistics minor within the 120 credits needed for the BSBA degree if the minor is started early in the candidate's program and planned for properly. However, depending on when the minor is started, the minor can result in a student needing to take up to an additional 18 credits to graduate (138 credits, total) with the minor and this can delay graduation. This is particularly true of management majors. Management Majors who wish to be eligible to earn a Supply Chain management and Logistics Minor must take the courses required for the minor. IN ADDITION to the Restricted Electives (Section V.D. of the BSBA/Management Major Grid Sheet). Courses in the Minor will not double count for the Management Major Restricted Electives section.

Minor Program:

Women's and Gender Studies

Interdisciplinary Program (18-21 S.H. minimum)

Program #

UACAWOMST2

Version #

2162

Effective Date

01/19/2016

1. Required Courses: 6 S.H.	GR	SH
WGS 010 Intro. To Women's Studies		3
WGS 310 Seminar in Women's Studies		3
2. Elective Courses: 12-15 S.H.	GR	SH
<i>Select four courses from the list on this checksheet:</i>		
		3
		3
		3
		3
		3

Approved Elective Courses	SH
ANT215 Genders Across Cultures	3
ANT/SOC 232 Marriage in Cr-Cult. Persp.	3
COM341 Voices of American Women	3
CRJ231 Gender, Crime and Criminal Justice	3
ENG132 Contemporary Gay and Lesbian Lit.	3
ENG221 Jane Austen	3
ENG272 Women & Violence in Con.World	3
ENG277 American Women in Literature	3
FRE361 Women in French Literature	3
HIS204 Women in African History	3
HIS241 History of Women in America	3
MGM318 Women in Management	3
PHI245 Human Love and Sexual Morality	3
PSY205 Psychology of the Black Experience	3
PSY208 Psychology of Gender	3
PSY215 Psychology of Prejudice	3
SOC120 Marriage and Family	3
SOC235 Sociology of Gender	3
SPA368 Caribbean: Race, Gender & Cult. Po	3
SPT111 American Women in Sport	3
WGS250 Women & Leadership	3
WGS370 Selected Topics in WGS	3
WGS380 Independent Study in WGS	3
WGS390 Internship in WGS	3
WGS/ARH318 Picturing Gender	3
WGS/COM130 Interpersonal Communicatio	3
WGS/COM145 Non-verbal Communication	3
WGS/COM237 Women Writers in Perform.	3
WGS/COM261 Intro. To Health Comm.	3
WGS/COM271 Sexualities and Comm.	3
WGS/COM285 Gender Communication	3
WGS/COM287 Family Communication	3
WGS/COM350 Leadership	3
WGS/EDU228 Women in Education	3
WGS/ENG138 Literature Banned in Iran	3
WGS/ENG246 Feminist Film Theory	3
WGS/ENG274 Women, Writing and Rhetori	3
WGS/ENG275 Archetypal Wom in Myth &	3
WGS/ENG276 19th Cent. Women's Lit.	3
WGS/ENG278 Women Writers Around Wor	3
WGS/ENG279 U.S. & Canadian Wom Write	3
WGS/ENG410 Feminist Literary Theory	3

MORE COURSES LISTED ON BACK

INTERDISCIPLINARY PROGRAMS

Minors

Digital Communication and New Media

Entrepreneurship

Multicultural Studies

Supply Chain Management and Logistics

Women's and Gender Studies



COLLEGE OF VISUAL & PERFORMING ARTS • MINOR • DIGITAL COMMUNICATION & NEW MEDIA

Program Code: UACADCNM2

Version Number: 2158

Effective Date: August 25, 2015

I. REQUIRED COURSES

9 credits

		grade	cr.
COM 245	New Media & Communication		3
ENG/WRI333	Digital Rhetoric		3
TVR 130CTVL	Media Theory & Aesthetics		3

II. ELECTIVES

9 credits

Students must select *any* three courses on the back of this page:

II. ELECTIVES

9 credits

Students must select *any three courses* below:

Course #	Course Name	Credits	Course #	Course Name	Credits
COM105	Business & Professional Presentations	3	LIB018	Materials & Search Strategies	3
COM 212 WICT	Intro to Mass Communication	3	LIB326	Digital Citizenship	3
COM 219CT	Integrated Marketing	3			
COM 274	Organizational Com	3	SOC 214VL	Sociology of Visual Culture	3
COM 280	Training & Development	3			
COM 295	Popular Culture	3	TVR 050	Audio Production	3
COM 307 VLCT	Rhetoric of Visual Media	3	TVR 055	Fundamentals of Video Production	3
COM 350 CT	Leadership	3	TVR 070WI	Scriptwriting for Elect. Media	3
			TVR 205	Narrative Video Production	3
CSC020CPVL	Computer Graphics	3	TVR220	Communication Law	3
CSC120	Intro Creative Graphic Coding	3	TVR226	Ethical Issues in Electronic Media	3
CSC122	Website Design	3	TVR255	Video Field Production	3
			TVR331	Copywriting & Intellectual Property	3
ENG 219 CT	Culture & Media	3			
ENG 244	Documentary Film & Theories of Representation	3	WRI 211	Journalism	3
ENG 318	Activists Writing Media	3	WRI 212 WICT	Intro to Mass Communication	3
ENG 382	Film Production Theory	3	WRI 220 WI	Technical Writing and Communication	3
			WRI 226 WICP	Desktop Publishing	3
ITC347	Emerging Technology	3	WRI 244	Story Analysis & Screenplay Develop	3
ITC348	Electronic Portfolios	3	WRI 303 WI	Investigative Journalism	3
			WRI 321WI	Information Design	3
			WRI 342	Screenwriting-Web Series	3



Program Code: UACA ENT2

Version: 2158

Effective Date: August 24, 2015

MINOR PROGRAM

Entrepreneurship

MINOR PROGRAM (18 Credits)

I. Required Courses (9 Credits)		RC	CR	GR
1. Select one of the following: PRO210 (3 Credits) Entrepreneurship for the Non-Business Major SPA363 (3 Credits) Spanish and Entrepreneurship MGM327 (3 Credits) Small Business Management		3		
2. Select one of the following: COM350 (3 Credits) Leadership: A Communication Perspective or PRO130WI (3 Credits) Practical Leadership		3		
3. Internship (3 Credits)	Internship in Field of Study**	3		
II. Minor Electives* (9 Credits)	Select 9 credits from the attached course list			
1. Elective (3 Credits)		3		
2. Elective (3 Credits)		3		
3. Elective (3 Credits)				
	*At least 6 credits of minor electives must be at the 200 level or higher.			
Total Credits		18		
III. Additional Requirements:				
1. Student must complete:	Certificate in Career Exploration & Career Success	<input type="checkbox"/> yes	<input type="checkbox"/> no	
2. Student must complete:	Written Description of How Electives Support Career Plan	<input type="checkbox"/> yes	<input type="checkbox"/> no	

All courses must be completed with a grade of "C" or higher

**With approval of Director of the Entrepreneurial Leadership Center

Minor Program: Multicultural Studies (18 S.H.minimum)	Program #	00045
	Version #	20046
	Effective:	Spring 2004
	Check Sheet Reviewed:	8/08

I. Required Courses: 6S.H.	GR	S.H.
MCS 010 Intro. to Multicultural Studies		3
MCS 370 Selected Research Topics or MCS 380 Seminar in Multicultural Studies or MCS 390 Internship in Multicultural Studies		3

2. Elective Courses: 1 2 S.H.	GR	S.H.
Select four courses from the list below:		
		3
		3
		3
		3

Approved Elective Courses:

ANT 101	North American Indians
EDU 496	Multicultural Education
ENG 234	Ethnic American Literature
ENG 236	Black American Literature: Poetry/Drama
ENG 237	Black American Literature: The Novel
HIS 150	Minorities in American History
HIS 240	African American History
HIS 244	The Immigrant in American History
INT 101	Intercultural Communication
SPE 213	Communication in a Multicultural World
NUR 116	Achieving Wellness: A Multicultural Perspective in the U.S.
PSY 215	Psychology of Prejudice



COLLEGE OF BUSINESS • BSBA • MINOR PROGRAM: SUPPLY CHAIN MANAGEMENT AND LOGISTICS

Program Code: UCOBSCML2

Version Number: 2158

Effective Date: 8/24/2015

MINOR PROGRAM: SUPPLY CHAIN MANAGEMENT AND LOGISTICS

I. MINOR PROGRAM (18 credits)

RC CR GR

A. Required Courses: (12 credits)			
MGM 315 Management Science	3		
MGM/MKT 361 Principles of Business Logistics	3		
MGM 362 Supply Chain Planning and Management	3		
MGM 363 Transportation Management	3		

B. Elective Courses: (Select 2: 6 credits)			
ACC 305 Cost Accounting	3		
ACC 312 Accounting Information Systems	3		
BUS 310 Advanced Business Computer Application	3		
ECO 360CD International Trade and Finance	3		
GEG 220 Economic Geography	3		
GEG 274CPQL Introduction to GIS	3		
BUS 390 Business Internship (only a verified internship in Supply Chain Management & Logistics Field)	3		

NOTES: If you register for a course without the prerequisites you will be dropped from the course. THIS MINOR IS FOR BSBA DECLARED MAJORS ONLY.

Most courses in this minor have prerequisites. Please check MyKU for each course specific prerequisite.

For more information, contact the Department of Business Administration, DF 233.

A BSBA candidate can complete the Supply Chain Management and Logistics minor within the 120 credits needed for the BSBA degree if the minor is started early in the candidate's program and planned for properly. However, depending on when the minor is started, the minor can result in a student needing to take up to an additional 18 credits to graduate (138 credits, total) with the minor and this can delay graduation. This is particularly true of management majors. Management Majors who wish to be eligible to earn a Supply Chain management and Logistics Minor must take the courses required for the minor. IN ADDITION to the Restricted Electives (Section V.D. of the BSBA/Management Major Grid Sheet). Courses in the Minor will not double count for the Management Major Restricted Electives section.

Minor Program:

Women's and Gender Studies

Interdisciplinary Program (18-21 S.H. minimum)

Program #

UACAWOMST2

Version #

2162

Effective Date

01/19/2016

1. Required Courses: 6 S.H.	GR	SH
WGS 010 Intro. To Women's Studies		3
WGS 310 Seminar in Women's Studies		3
2. Elective Courses: 12-15 S.H.	GR	SH
<i>Select four courses from the list on this checksheet:</i>		
		3
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Approved Elective Courses	SH
ANT215 Genders Across Cultures	3
ANT/SOC 232 Marriage in Cr-Cult. Persp.	3
COM341 Voices of American Women	3
CRJ231 Gender, Crime and Criminal Justice	3
ENG132 Contemporary Gay and Lesbian Lit.	3
ENG221 Jane Austen	3
ENG272 Women & Violence in Con.World	3
ENG277 American Women in Literature	3
FRE361 Women in French Literature	3
HIS204 Women in African History	3
HIS241 History of Women in America	3
MGM318 Women in Management	3
PHI245 Human Love and Sexual Morality	3
PSY205 Psychology of the Black Experience	3
PSY208 Psychology of Gender	3
PSY215 Psychology of Prejudice	3
SOC120 Marriage and Family	3
SOC235 Sociology of Gender	3
SPA368 Caribbean: Race, Gender & Cult. Po	3
SPT111 American Women in Sport	3
WGS250 Women & Leadership	3
WGS370 Selected Topics in WGS	3
WGS380 Independent Study in WGS	3
WGS390 Internship in WGS	3
WGS/ARH318 Picturing Gender	3
WGS/COM130 Interpersonal Communicatio	3
WGS/COM145 Non-verbal Communication	3
WGS/COM237 Women Writers in Perform.	3
WGS/COM261 Intro. To Health Comm.	3
WGS/COM271 Sexualities and Comm.	3
WGS/COM285 Gender Communication	3
WGS/COM287 Family Communication	3
WGS/COM350 Leadership	3
WGS/EDU228 Women in Education	3
WGS/ENG138 Literature Banned in Iran	3
WGS/ENG246 Feminist Film Theory	3
WGS/ENG274 Women, Writing and Rhetori	3
WGS/ENG275 Archetypal Wom in Myth &	3
WGS/ENG276 19th Cent. Women's Lit.	3
WGS/ENG278 Women Writers Around Wor	3
WGS/ENG279 U.S. & Canadian Wom Write	3
WGS/ENG410 Feminist Literary Theory	3

MORE COURSES LISTED ON BACK

Course Descriptions

Accounting

ACC 121: Financial Accounting

Accounting has been called "the language of business." Accordingly, this course emphasizes the provision of relevant and reliable information used by investors, creditors and managers in making financial and business decisions. Areas of emphasis include the basic concepts and principles of financial accounting, the accounting cycle, financial statement preparation, information systems and processing, and internal control.

Recognition, measurement, and classification of assets, liabilities, revenues and expenses are examined and the alternative forms of business organization are covered. BSBA majors only.

Prerequisites: Open to BSBA majors (including Core) or permission of the department chairperson

ACC 122: Managerial Accounting

The course is a study of the development and use of accounting information and its importance to management functions. Areas of emphasis include planning and control of operations, evaluation of performance at different levels within the organization, financial analysis, cost systems, budgeting, and decision-making. A computer project is required using spreadsheet software. BSBA majors only.

Prerequisites: Open to all BSBA majors (including Core) with ACC 121 & BUS 171 or permission of department chairperson.

ACC 305: Cost Accounting

This course introduces students to methods and tools used in business organizations in the areas of financial planning, controlling and decision making. While different approaches to measuring cost of products and services is a central focus of the course, the course integrates planning and controlling by exposing students to information and financial analysis needed to support decision making. The course also provides thorough treatment of cost analysis for both manufacturing and wide range of service industries.

Topics covered include job order and process costing, activity-based costing, pricing models including target costing, product/service and customer profitability analysis, budgeting, variance analysis, theory of constraints, analysis for decision making scenarios, and performance management tools such as the balanced scorecard. In addition, the course introduces students to inventory management, quality management and supply chain issues as they relate to cost and profitability analysis.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses.

ACC 306: Advanced Cost Accounting

The course builds on and expands topics introduced in ACC 305, Cost Accounting. The managerial emphasis is continued and the subject area expanded to cover further issues in cost allocation and product costing and to introduce new topics, such as linear programming, just-in-time inventories, capital budgeting, economic order quantity, transfer pricing, and performance measurement.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and ACC 305

ACC 312: Accounting Information Systems

This course is designed to introduce accounting majors to a variety of transaction processing systems, such as accounts payable, inventory, and accounts receivable. Emphasis will be placed on the inputs, processing, outputs, databases, and internal controls associated with each system studied as well as the interrelationships among the systems. How to establish and follow audit trails through the system will also be covered. The first two steps in the structured systems development cycle, namely Systems Survey and Systems Analysis, will be emphasized. Developing systems via prototyping and the application of artificial intelligence in accounting systems are topics included in the course. This course is designed for accounting majors, other business majors may be admitted with permission of the dean.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and ACC 321

ACC 313: Concepts of Taxation and Tax Planning

The course will cover concepts and principles of both business and individual taxation and tax planning as they apply primarily to the business enterprise. Emphasis is on a managerial approach to taxation, whereby tax principles and rules are applied, where appropriate, as a facet of financial planning of the business enterprise.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and ACC 321

ACC 317: Tax Accounting I

This course is an in-depth study of the Federal income taxation of individuals and provisions having common application to individuals and businesses. Topics covered include tax administration and procedure, sources of tax authority, tax research, gross income and exclusions, deductions and losses, tax credits, property transactions, capital gains and losses, accounting periods and methods and the alternative minimum tax. In addition to conceptual matter, the practical compliance aspects of individual tax preparation are covered.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses.

ACC 318: Tax Accounting II

This course is a continuation of ACC 317 and is an in-depth study of the Federal income taxation of regular corporations and flow-through entities (partnerships, S Corporations, limited liability corporations). Coverage also includes estate and gift taxes, multistate corporate taxation and taxation of international transactions. In addition to conceptual matters, the practical compliance aspects of tax return preparation, as well as effective tax planning techniques will be covered.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and ACC 317

ACC 321: Intermediate Accounting I

A study of current financial accounting theory and practice, this course builds on the fundamental concepts covered in the introductory financial and managerial accounting courses and develops a more professional level of accounting analysis. Coverage includes the development of accounting standards—including International Financial Reporting Standards, the conceptual framework of financial accounting, the accounting process, financial statements, time value of money, cash, receivables, inventories, property plant and equipment, intangible assets, current liabilities and contingencies. Students develop analytical skills and the ability to research accounting issues. The course also encourages the development of computer, oral, and technical writing skills.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses.

ACC 322: Intermediate Accounting II

A study of current financial accounting theory and practice, this course covers Intermediate Accounting topics beyond the scope of Intermediate Accounting I. Coverage includes accounting and financial statement presentation for: Long-term Liabilities; Stockholder's Equity; Dilutive Securities and Earnings per Share; Investments in Securities; Revenue Recognition; Income Taxes, Pensions and Postretirement Benefits; and Leases; Accounting Changes and Error Analysis; and the Statement of Cash Flows; and Full Disclosure in Financial Reporting. The course emphasizes conceptual understanding as well as the development of the technical skills of accounting and the development of computer and oral and written communication skills.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and ACC 321

ACC 323: Advanced Accounting

This course covers theory and application of advanced accounting topics including business combinations (mergers, acquisitions, and consolidations), consolidated financial statements, interim and segment reporting, partnerships, derivative instruments, and foreign operations.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and ACC 322

ACC 325: Not-For-Profit and Governmental Accounting

Accounting and financial and budgetary reporting for governments and nonprofit organizations (NP&G) are based on distinctive concepts, standards, and procedures designed to accommodate their environments and the needs of their financial report users. This course focuses on the aforementioned concepts, standards, and procedures applicable to (1) state and local governments including counties, cities, and school districts, as well as townships, other special districts, and public authorities; (2) nonprofit universities, hospitals, voluntary health and welfare organizations. Financial management evaluation procedures and accountability considerations peculiar to NP&G organizations are emphasized throughout the course.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses.

ACC 330: Auditing Practice and Standards

This course is an introduction to audit theory, practice and ethics. It integrates the accounting, ethical, legal and auditing responsibilities of the Certified Public Accountant. Topics covered include the various forms of audit reports, professional ethics, legal liability of the accountant, the audit process, risk analysis, internal controls, the nature of evidential matter, audit procedures, and an introduction to audit related statistical applications. Also, the content, meaning and impact of the Sarbanes/Oxley Act and the role of the Public Company Accounting Oversight Board (PCAOB) are covered. A computerized audit case study, which provides students the experience of performing a simulated audit engagement has been integrated as a key component of the course.

Prerequisites: ACC 305 & ACC 322

ACC 380: Senior Seminar in Accounting

This course focuses integrating students' knowledge in accounting with business principles and current issues, with particular emphasis on the role of accounting in contemporary society. ACC 380 integrates topical matter from various fields of accounting with strong emphasis on professional responsibilities. The course also addresses topics that are not covered in depth elsewhere in the accounting curriculum.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and ACC 322

ACC 395: Honors Thesis in Accounting

Completion of the honors thesis is a requirement for the KU Honors Program. This course enables the honors student to conduct a research project under the direction of a faculty member from the Accounting Discipline. The student and faculty member will prepare a research proposal. A student can apply for 3-6 credits (s.h.). The proposal and number of credits must be approved by the discipline.

Prerequisites: Student must be a member of the KU Honors Program and have completed ACC 321, plus nine credits of upper-level accounting courses and an overall GPA of 3.25 or higher.

Anthropology

ANT 10CD: Cultural Anthropology

An introduction to the cross-cultural study of human behavior with emphasis on non-Western cultures. Selected ethnographic material as well as general theories of technology, social, political, religious, family, and economic organization will be examined.

ANT 20: Physical Anthropology

An introduction to the fossil record and biological variation of human and non-human primates and the mechanisms involved. Biological and socio-cultural factors are interrelated in explaining the evolution and variation of man.

ANT 30CD: Introduction to Archaeology

This course provides an introduction to archaeological methods and techniques, including site surveying, excavation and recording, classification and description, dating, and data interpretation. These techniques will be illustrated through the consideration of archeological sites from around the world. We will also consider current issues in archaeology.

ANT 40CD: Language and Culture

This course provides a general introduction to linguistic anthropology, one of the four subfields of anthropology. This course will orient students to language as cultural resource and practice. The course will introduce students to the structural, contextual, and pragmatic features of language through an exploration of non-Indo-European and Indo-European linguistic anthropological analyses.

ANT 100: Freshman Seminar in Anthropology

This course will introduce Freshmen students to the study of anthropology and to the academic expectations for a college student. The instructor will describe his/her passion for the topic and use that as the basis for communicating important anthropological concepts. Students will conduct their own research projects that will include developing the skills necessary for researching and writing an academic paper. Students will become active learners through inquiry, analysis, discovery, reflection, presentation and action. The experiences of Freshmen students will be incorporated into the class and discussed in terms of anthropological concepts.

Prerequisites: FR only, Less than 18 credits

ANT 101: North American Indian

The comparative ethnology of non-literate tribes of North and Central America as they existed at Spanish contact times.

ANT 105CDCT: Classical Archaeology

This course deals with the archaeology of the three great civilizations of the ancient Mediterranean: Egypt, Greece and Rome. As an archaeology course, it seeks to reconstruct daily life more through artefactual remains than through historical documents. Archaeological theories of the origins of farming and of state formation are discussed and applied to these three cultures. In addition, the course covers specific examples of archaeological theory and technique such as those used in regional archaeology, underwater archaeology and bioarchaeology.

ANT 106: History and Culture of Turkey

Spanning two continents, Turkey stands as a crossroads of some of the most important historical and cultural trends in the world. This course will explore the cultural history and current developments in Turkey, through readings, lectures and study abroad experience in Turkey itself. Students will gain knowledge of the multiple historical influences on the development of Turkey by visiting major architectural, historical and archeological sites in various parts of the country. Students will also have an opportunity to experience and observe modern Turkish culture through lectures, participation in events, and visits to important Turkish institutions. This course will serve as a basis for a study abroad program in Turkey.

Prerequisites: Permission of Instructor

ANT 117: European Cultures

This course presents a survey of the cultural diversity of Europe, examining majority populations, ethnic/linguistic minorities and post-colonial immigrants. Particular focus will be on contemporary social and cultural changes brought about by both European integration and increased immigration of peoples from the former colonies.

ANT 118: Anthropology of London

Since its founding in the First Century by the Romans at the northern frontier of their empire, London has been a vibrant and diverse population center. Utilizing an anthropological lens, this course explores London from its prehistoric origins through its current existence as a multicultural and global city. Combining readings, lectures and a study abroad experience in London, students will gain knowledge of the cultural history and contemporary ethnography of London. Field trips will include visits to important prehistoric and historical sites, as well as explore London's contemporary diverse neighborhoods. This course will serve as a basis for a study abroad course in London.

Prerequisites: Permission of Instructor

ANT 131: New World Archaeology

This course will deal with the peopling of the New World, rise of the high cultures, and the development of the Eastern Peoples to white contact times.

ANT 135CD: Pennsylvania German Cultural Traditions

This course is a survey of Pennsylvania German cultural traditions. The course examines the cultural traditions and practices of Anabaptist and Church Pennsylvania Germans, both in the past and in the present. These traditions and practices are studied in the context of various theories about culture, cultural pluralism, traditionalism, assimilation, and modernization. Students conduct their own research projects in neighboring communities and collect information about Pennsylvania German culture and society.

ANT 136: Pennsylvania Archaeology

This course provides a comprehensive overview of the Pennsylvania archaeology, from the very first peopling of the Commonwealth through the industrial age. Topics covered will include the first peopling of Pennsylvania, the rise of complex hunting-gathering societies, the adaptation of peoples to maize agriculture, and the archaeology of European contact.

ANT 138: Caribbean Cultures

Although it is a relatively small region, the Caribbean is a richly diverse place; this diversity is the result of the settlement and colonization of the region by people from all over the world. To understand the diversity of the contemporary Caribbean, we will spend the first half of the course examining the history of the Caribbean from its first prehistoric inhabitants to the mid 20th century, concentrating on the dynamics of colonialism as they affected the development of culture in the Caribbean. In the second half of the course, we will examine the diversity of peoples and cultures that inhabit the region today, particularly focusing on the relationship that music has played in the development of Jamaican popular culture.

ANT 165CD: The Muslim Middle East

Islam is one of the largest and most influential religions in the world and has found a home in a wide variety of social and cultural settings. To understand the roots and diversity of Muslim cultures in the contemporary world, we will spend the first half of the course exploring the origins of Islam in the Arabian Peninsula, its expansion into Eurasia and Africa, and its articulation in different historical contexts, concentrating on the accretion of local traditions into Muslim practices and beliefs. In the second half of the course, we will examine a number of social issues that are currently the focus of much debate within the contemporary Muslim world, issues such as women and Islam, family institutions, the implementation of Muslim law, the "honor and shame" ethic, and the use of violence for religious ends.

ANT 180CDWI: The Pacific and Australia

A survey of the cultures of Polynesia, Micronesia, and Melanesia, including Australia in historical and contemporary perspectives. Discussion of the peopling of Oceania with resultant cultural and physical diversity. Particular emphasis on the kinship structure of selected cultures.

ANT 190CDWI: Human Cultural Diversity and Adaptations in PA

This course will examine Human adaptations in Pennsylvania and the Northeastern region of the United States from the earliest Native American settlements to the post-industrial present. The course will examine the Paleo-Indian, archaic and Woodlands adaptations of Native Americans and then consider European adaptations to the same environment from the early agricultural colonizers through the modern post-industrial society. Some of the present-day subcultures in Pennsylvania will also be considered.

ANT 201QL: Archaeological Theory and Technique

This course provides training in archaeological theory, methodology, and lab techniques through reading, lecture, and practical analysis of archaeological materials.

Prerequisites: Anthropology majors and minors

ANT 202CTQL: Research Methods in Physical Anthropology

This course provides training in the techniques of physical anthropology through reading, lecture and practical analysis of anthropological materials.

Prerequisites: ANT 20

ANT 212CDWI: Shamans, Witches and Magic

This course introduces students to the infinitely diverse ways in which groups express religious ideas - in the process rendering the familiar strange and the strange familiar. This course will examine universal and culture-specific aspects of religion, focusing primarily on "traditional" (i.e., non-scriptural) religions in order to explore some fundamental features common to all systems of religion. The course will also investigate new developments in religious belief and practice in a globalizing world.

ANT 213CDWI: World Religions

This course will examine the great "World Religions" Judaism, Christianity, Islam, Hinduism, Buddhism, and East Asian Religions in terms of their historical developments and contemporary manifestations. The course will cover basic techniques of scriptural exegesis, explore the historical roots and expansion of each religion, and examine how the religions have diversified in the face of cultural and political developments locally and globally. Special focus will be given to religious issues that are involved in major geo-political conflicts, such as the attacks of September 11, 2001, the rise of fundamentalism around the world, and the conflicts in the Middle East and South Asia.

ANT 215CTWI: Genders Across Cultures

This course will explain some of the main areas of inquiry in the anthropological study of gender and sexuality, examining the historical development of anthropological theories of gender, from pre-feminist perspectives to the postmodern era. Students will then explore special topics and case studies in the anthropology of gender, drawing on material from different societies.

Prerequisites: ANT 10 or the permission of the instructor.

ANT 217: The Anthropology of Frauds and Fantastic Claims

Questions dealing with the mysterious, paranormal, or supernatural have long been answered by offering fantastic explanations—explanations that invoke the occult, paranormal, mystical, and miraculous. For their part, professional scientists typically regard such fantastic explanations as pseudoscience (i.e., "fake science"). Yet pseudoscience has enjoyed renewed interest from an increasingly science-averse audience, especially in America. In this course, students will be challenged to develop the critical thinking skills necessary to evaluate alternative interpretations of evidence through an examination of archaeological, historic, and contemporary examples of pseudoscience (e.g., the search for Bigfoot; ancient aliens; climate change denial). By honing the principles of critical thinking, students will be provided the necessary skills to evaluate any claim for themselves, in preparation for informed engagement with the world around them.

ANT 218: Culture and Consumption

In every society, what is consumed, how things are consumed and by whom things are consumed carries socio-cultural meaning. The consumption and display of goods mark social identity and social status. This course will examine consumption in a broad range of societies, with a particular focus on the changing patterns of consumption and the meaning of consumption that is brought about by the globalization of consumerism.

ANT 220: Economic Anthropology

The course examines the economic institutions and the technology of various non-Western societies. Patterns of production and distribution and their cultural underpinnings are compared with one another and, implicitly, with Western industrial economies.

ANT 224CDCT: The Anthropology of Death and Dying

A survey of the on-going cultures of death and dying current in present-day Western society. Emphasis is on interaction with dying and grieving persons of all ages. Topics include the disaster syndrome, nursing homes, hospice, suicide, and funeral rituals.

ANT 226CDWI: Anthropology and Education

This course is an introduction into anthropological approaches to learning and socialization. The course will survey anthropological findings about learning, both in American culture and in non-Western cultures. Both formal and informal methods of education will be examined. The course will also examine issues involving education, schools and cultural diversity in the present-day American education system.

ANT 227: Work and Workplaces

Moving beyond viewing work as purely economic activity, this course examines the social and cultural aspects of work and workplaces. Non-industrial and industrial work will be examined in cross-cultural settings, focusing on the role of work in affecting identity, status and meaning. Particular emphasis will be placed on work in the contemporary global economy in both industrialized and post-industrialized countries. Course readings will be drawn from ethnographic studies carried out by both anthropologists and sociologists.

ANT 232CDWI: Marriage and the Family in Cross-Cultural Perspective

This course examines the forms taken by marriages and families in various world societies. The following questions will be addressed: What aspects of marriage and family are the same for all humans, and what aspects are variable? What factors account for major cross-cultural differences in the organization of marriage and the family? Why are some features the same (or nearly so) all over? Is there a biosocial base? How are marriage and family relationships used as metaphors in organizing other aspects of social life?

ANT 239: Historical Archaeology

This course provides a comprehensive overview of the archaeology of the historical period, from the first colonization of the Americas through the mid-20th century. Topics covered will include the identification of historic period artifacts, the archaeology of Spanish, French, English, German, and Dutch colonial homesteads, the archaeology of plantations and plantation life, the archaeology of urban sites, and the archaeology of mills and other industrial sites.

ANT 241CD: Race And Ethnicity

The sources and consequences of prejudice and discrimination; minorities in the social structure; strategies and programs to prevent and control inter-group tensions and conflicts.

ANT 242VLWI: Museums, Festivals and Cultural Events

This class introduces students to anthropological approaches to museums, festivals and other organizations and activities that exhibit culture, archeology, ethnicity, and folklife. The course will examine how museums, festivals and other cultural events are organized, developed and managed. The course will also examine how these organizations and events are shaped by different interests, including those that are academic, commercial, political and indigenous. Examples will be drawn from many different cultures and subcultures in the United States and elsewhere. Students will participate in the museums, festivals and cultural events in the region surrounding Kutztown University.

ANT 245: Language and Identity

This course provides an in-depth examination of the relationship between language, culture and identity. Students in this course will encounter the various ways that language is a resource used by speakers to shape, recreate and resist identities within cultural contexts. Specific and interrelated linguistic anthropological topics to be examined include gender, sexual, ethnic, racial, national, transnational, socioeconomic and religious identities.

ANT 246CDCT: Globalization and Development

This course surveys the social causes and consequences of underdevelopment in Third World societies. One of its basic premises is that development and underdevelopment must be defined in terms of quality of life as well as strictly economic indicators. A prominent (but not exclusive) focus is the problem of world hunger. This issue is used as a gateway to other significant development related issues (e.g. population, industrialization, urbanization, rural development).

Prerequisites: ANT 10 or SOC 10

ANT 254CDWI: Medical Anthropology

This course is designed to combine anthropological knowledge and skills with public health problems and activities. Emphasis will be placed on the relationship between chronic disease and behavioral characteristics of the population under study.

Ethnographic material will be drawn from a world-wide survey of various ethnic and national groups.

ANT 258QL: Forensic Anthropology

This course is designed to combine anthropological knowledge and skills that will allow students to identify and classify human skeletal remains for legal and medical purposes. Special consideration will be given to osteological knowledge, various measuring techniques, observational skills, determination of age, sex and race, and any possible criminal wrong-doing.

ANT 260: Applied and Practicing Anthropology

This course presents a survey of the various ways that cultural anthropology is utilized to solve problems in public, not-for-profit, non-governmental and private sector organizations and settings. The course also serves as a vehicle for students to explore their own career interests and the opportunities that exist for individuals with training in anthropology.

Prerequisites: ANT 10 or the permission of the instructor.

ANT 262CTWI: Hate Across Cultures

This course provides a comprehensive examination of hate and hate practices in cultures around the world, focusing first on a global scale, then on the national front and finally at the local level. Topics covered include the origin of hate, hate as a cultural construct, hate practices of individuals and organized groups, and the legacy of hate.

Prerequisites: ANT 010 or SOC 010 or by permission of the instructor.

ANT 271: Studies in Physical Anthropology

Studies in Physical Anthropology

ANT 272QLWI: Human Heredity

Molecular, Mendelian, populational and behavioral genetics of humans are studied from both a lecture and a problem-solving view.

Prerequisites: ANT 20 or BIO 10 or BIO 104

ANT 273WI: Primate Studies

This course covers non-human primate anatomy, taxonomy, distribution, adaption, and behavior as related to the human species.

ANT 274WI: Human Origins

The anatomical and behavioral evolution of Homo sapiens and its antecedents from the Oligocene to the Holocene is studied with emphasis upon the evolutionary basis of developments and the functional significance of changes. Extensive use is made of cast materials.

ANT 276: Studies in Physical Anthropology

Studies in Physical Anthropology

ANT 277: Studies in Physical Anthropology

Studies in Physical Anthropology

ANT 278: Studies in Physical Anthropology

Studies in Physical Anthropology

ANT 279: Studies in Physical Anthropology

Studies in Physical Anthropology

ANT 285: Millenarian Movements

A cross cultural analysis of millenarian movements - cults and/or groups of cultural reform whose intent is to achieve a "millennium" or future period of great happiness, universal love, or other dramatic climax. Special emphasis is on the cultural conditions under which such groups tend to arise, on group leadership, and on techniques of recruiting and maintaining group membership.

ANT 290CD: Culture and Personality

The course is designed as an interdisciplinary survey of the field of culture and personality. The key problem involves investigating the concepts of culture and personality and the nature of the relationship between them. Also may be taken as PSY 290.

Prerequisites: ANT 10 or PSY 11

ANT 320: Archaeological Field Methods

This course will consist of surveying and evaluating local archaeological sites. This will be followed by excavation, classification, description, and analysis of the sites. Material will be returned to campus, cleaned, and prepared for study. This will allow students to participate in original scientific research.

ANT 321: Advanced Archaeological Field Methods

This course provides intensive and advanced field experience in archaeological excavation and analysis of local archaeological sites. Through experiential learning, students will gain knowledge of how archaeological materials are recovered, processed, analyzed and interpreted. The course must be taken in the same semester as ANT 320.

ANT 335CTWI: Ethnographic Research Methods in Anthropology

Students learn methods of anthropological field research. This course introduces students to basic issues concerning ethnographic research and description. Students learn qualitative research methods, use these methods to gather information and then report on their findings.

ANT 360CMWI: History and Theory of Anthropology

Various schools of anthropological thought are studied for their contributions to the development of current anthropological theory and practice.

ANT 370: Readings in Anthropology

Students preparing for advanced study in anthropology may undertake guided readings and research. Arrangements as to the program and supervising departmental faculty must be completed prior to registration.

Prerequisites: ANT 10 or ANT 20 or ANT 30 and Permission of the Instructor

ANT 371: Selected Topics In Anthropology

The format of the course will typically be lecture and discussion. Selection of topics will vary, depending upon the needs of eligible students, and the expertise of available faculty.

ANT 379: Independent Study

Before registering the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated for credit.

ANT 380CTWI: Senior Seminar in Anthropology

This course consists of readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Anthropology. Required of all Liberal Arts students concentrating in Anthropology.

ANT 390: Internship in Anthropology

The student is placed in an anthropological work situation in which supervised practical vocational experience can be acquired. Course credit will be determined prior to enrollment and will be based on the character and extent of the work-study program. Interested students should apply through their advisors. This course may be repeated for a maximum total of 12 sh.

Prerequisites: Student must be an Anthropology major and have attained Jr. or Sr. status

ANT 391: Internship in Anthropology

The student is placed in an anthropological work situation in which supervised practical vocational experience can be acquired. Course credit will be determined prior to enrollment and will be based on the character and extent of the work-study program. Interested students should apply through their advisors. This course may be repeated for a maximum total of 12 sh.

Prerequisites: Student must be an Anthropology major and have attained Jr. or Sr. status

ANT 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis

ANT 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

Applied Digital Arts

APD 141: Visual Storytelling and Character Design

Students study approaches to storytelling and their application in visual narrative. Students will analyze historical examples of visual narratives and imagery related to character design, learn pre-production for character design and will develop concept art and character sheets.

Prerequisites: Applied Digital Arts majors with FAR 15 and ART 31 and ART 32

APD 148: Game Design & Prototyping

Students will explore the concept of play and how it works in building game strategies. This course covers foundation game design and workflow from inception to execution. Students will develop, plan, realize and propose their game concepts as well as make and play-test game prototypes. Three additional hours per week of outside class work is expected.

Prerequisites: Applied Digital Arts majors only, or permission of the department.

Arabic

ARA 11: Elementary Arabic I

This course in Arabic is the entry elementary level language course for beginners and will provide students with the beginning skills in listening, speaking, reading and writing the Arabic language basic on the peoples and cultures of the Arabic-speaking world.

ARA 12: Elementary Arabic II

This course in Arabic is the second semester (elementary II) level language course for beginners and will provide students with the beginning skills in listening, speaking, reading and writing the Arabic language basic on the peoples and cultures of the Arabic-speaking world.

Prerequisites: ARA 11

Art

ART 10VL: Experiencing Art

In this course, students who are non-art majors will be introduced to a variety of orientations used to create an understanding of fine arts, design, and crafts. These include: media, techniques, motivations, design, conceptual development processes, and aesthetic traditions. The course also emphasizes studying art critically and historically and forming educated opinions about works of art.

Prerequisites: Non-visual arts major/minors only.

ART 20: Two-Dimensional Visual Literacy

Design implies order, arrangement, and plan. The student will study how design elements and principles influence perception and personal expression. Analysis of historical and contemporary art, together with exploration in various media and techniques, should give the student experience in conceptualizing, visualizing, and executing two-dimensional designs. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: Open to all but the following majors: Art Education, Communication Design, Crafts, Fine Arts

ART 31VL: Two-Dimensional Design

Design implies order, arrangement, and plan. The student will study how design elements and principles influence perception and personal expression. Analysis of historical and contemporary art, together with exploration in various media and techniques, should give the student experience in conceptualizing, visualizing and executing two-dimensional designs. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: All students in College of Visual & Performing Arts except majors in Theatre, Music, Music Education & Com Studies (Speech) majors; or permission of the instructor

ART 32VL: Three-Dimensional Design

Studio involvement includes a continuum of experiences typical of the evolvement of the concepts of three-dimensional sculpture/design as manifested in history. Constructive experiences with a great variety of materials are designed to develop relationships of two- and three-dimensional design and then identify concepts that are unique to three-dimensional design. The role of light will be explored as it affects elements: edge, shape, color as a change agent from the illusions of two-dimensional surface to the reality of three-dimensional space through the principles of emphasis, continuity and balance, other natural phenomena, such as touch, motion, kinesthetic and some applications will be explored. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: All students in College of Visual & Performing Arts except majors in Theatre, Music, Music Education & Com Studies (Speech) majors; or permission of the instructor

ART 120: Introduction to Product Design

This course provides an introduction to the profession of Product Design. Product designers conceive, plan, and develop models of consumer products, such as toasters, lamps, helmets, furniture, etc. Students in this class will develop an understanding of the range of artifacts that are included in this field, design products related to specific assignments, learn to work within constraints related to materials and markets, develop a design concept, create models and proto-types, and explain and promote the value of their solutions. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: For all undergraduate students in the College of Visual and Performing Arts except Theatre, Music, Music Education & Com Studies (Speech) majors, and ART 31, ART 32, FAR 15 and FAR 16; or permission of the instructor.

ART 171CPVL: Computer Aided Modeling and Rendering

This course is an introduction to software associated with the design of three-dimensional objects in virtual space. Students in this class will learn to use three dimensional modeling and rendering software to develop their ideas, visualize those ideas as three-dimensional forms, and present their ideas to others. Students will develop 3D drawings defined by the professor and based on their own body of work. A minimum of 3 hours of work outside of class is required per week. Open to all students in Electronic Media and the College of Visual and Performing Arts except Music, Music Education, and Communication Studies.

Prerequisites: Open to all students in Electronic Media and the College of Visual and Performing Arts or permission of the instructor

ART 182CP: Introduction to Time-Based Media

This course provides an introduction to the creation of images through computer-based technologies. During the course students will not only learn the use and basic capabilities of both still and time-based digital image-making equipment and software, they will also explore the unique ways in which computers facilitate artistic expression. Students will be introduced to art works, artists, alternative-viewing sites, cyber communities, aesthetics and criticism related to digital art. They will also consider digital tools as part of a continuum of technological innovation in the visual arts. This course serves as an introduction to digital media and prepares students for advanced digital art courses and other courses requiring a basic familiarity with these media. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Studio Art major/minor, or Applied Digital Arts major, or Art Education major, or Communication Design major, or Crafts major; or permission of the department.

ART 212: Professional Practice: Digital Communication

This course will focus on developing a fundamental skill set utilizing computer technology as a professional promotional tool. An introduction to software appropriate for the development and editing of graphic design, images and text intended for promoting artwork and art related events. A minimum of 4 hours of work outside of class is required per week.

ART 231: Digital Animation

This course provides an introductory overview of digital animation. Students will complete a project from its conception to final presentation. Basic production techniques, project planning, and linear versus non-linear narrative are all fundamental components covered in this course. Students will become proficient in using a variety of animation programs. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Fine Arts Foundation Courses & ART/FAR 182 or permission of the instructor; ART31-032 & FAR15-16

ART 270: Installations

This is a studio and workshop based course that takes a hybrid approach to traditional art practices. Drawing, painting, sculpture, performance, sound, light, movement, as well as unconventional materials and processes will be explored and combined in a variety of ways in the creation of installation artworks. The significance and role of the site and the social-cultural context in which these pieces exist will be emphasized. Students will work both individually and collaboratively as they research and investigate the possibilities of each project. Historical and contemporary examples of installation art will be viewed and discussed. There will be field trips to galleries and museums to see installation art-works. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: For all undergraduate students in the College of Visual and Performing Arts except Theatre, Music, Music Education & Com Studies (Speech) majors, and ART 31, ART 32, FAR 15 and FAR 16; or permission of the instructor.

ART 320CD: Introduction to Material Culture Conservation

This course provides an introduction to the conservation of material culture, which includes craft, objects, archives, and buildings. Conservators study, assess, plan, and implement approaches to preserving material culture. This includes approaches to treating the effects of deterioration from natural and man-made causes. Students in this course will explore conservation theory and will demonstrate their understanding through a series of projects associated with the Pennsylvania German Cultural Heritage Center and other local and regional museums and galleries. Students will complete restoration projects drawn from this site. A minimum of 3 hours of work outside of class is required per week.

ART 321: Product Design Studio I

This course provides advanced study in the profession of Product Design. Product designers conceive, plan, and develop models of consumer products, such as toasters, lamps, helmets, furniture etc. Students in this class will develop an understanding of the range of artifacts that are included within this field, design products related to specific assignments, learn to work within constraints related to materials and markets, develop a design concept, create models and prototypes, and explain and promote the value of their solutions. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: For all undergraduate students in the College of Visual and Performing Arts except Theatre, Music, Music Education & Com Studies (Speech) majors, and ART 31, ART 32, FAR 15 and FAR 16; or permission of the instructor.

ART 322: Product Design Studio II

This course provides advanced study in the profession of Product Design. Product designers conceive, plan, and develop models of consumer products, such as toasters, lamps, helmets, furniture etc. Students in this class will develop an understanding of the range of artifacts that are included within this field, design products related to specific assignments, learn to work within constraints related to materials and markets, develop a design concept, create models and prototypes, and explain and promote the value of their solutions. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: ART321

ART 323: Product Design Studio III

This course provides advanced study in the profession of Product Design. Product designers conceive, plan, and develop models of consumer products, such as toasters, lamps, helmets, furniture etc. Students in this class will develop an understanding of the range of artifacts that are included within this field, design products related to specific assignments, learn to work within constraints related to materials and markets, develop a design concept, create models and prototypes, and explain and promote the value of their solutions. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: ART322

ART 324: Product Design Studio IV

This course provides advanced study in the profession of Product Design. Product designers conceive, plan, and develop models of consumer products, such as toasters, lamps, helmets, furniture etc. Students in this class will develop an understanding of the range of artifacts that are included within this field, design products related to specific assignments, learn to work within constraints related to materials and markets, develop a design concept, create models and prototypes, and explain and promote the value of their solutions. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: ART323

ART 325: Product Design Studio V

This course provides advanced study in the profession of Product Design. Product designers conceive, plan, and develop models of consumer products, such as toasters, lamps, helmets, furniture etc. Students in this class will develop an understanding of the range of artifacts that are included within this field, design products related to specific assignments, learn to work within constraints related to materials and markets, develop a design concept, create models and prototypes, and explain and promote the value of their solutions. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: ART324

ART 331: Animation Studio I

This course provides advanced study in digital animation. Students will develop a project and learn how to execute it, starting from conception to final delivery. Advanced production techniques, project planning, and linear versus non-linear narrative using interactive buttons will be covered in this class. Students will become proficient in using a variety of state of the art animation programs. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: ART 231 or permission of the instructor.

ART 332: Animation Studio II

This course provides advanced study in digital animation. Students will develop a project and learn how to execute it, starting from conception to final delivery. Advanced production techniques, project planning, and linear versus non-linear narrative using interactive buttons will be covered in this class. Students will become proficient in using a variety of state of the art animation programs. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. A minimum of 3 hours of work outside of class is required per week.

ART 333: Animation Studio III

This course provides advanced study in digital animation. Students will develop a project and learn how to execute it, starting from conception to final delivery. Advanced production techniques, project planning, and linear versus non-linear narrative using interactive buttons will be covered in this class. Students will become proficient in using a variety of state of the art animation programs. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. A minimum of 3 hours of work outside of class is required per week.

ART 334: Animation Studio IV

This course provides advanced study in digital animation. Students will develop a project and learn how to execute it, starting from conception to final delivery. Advanced production techniques, project planning, and linear versus non-linear narrative using interactive buttons will be covered in this class. Students will become proficient in using a variety of state of the art animation programs. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. A minimum of 3 hours of work outside of class is required per week.

ART 335: Animation Studio V

This course provides advanced study in digital animation. Students will develop a project and learn how to execute it, starting from conception to final delivery. Advanced production techniques, project planning, and linear versus non-linear narrative using interactive buttons will be covered in this class. Students will become proficient in using a variety of state of the art animation programs. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. A minimum of 3 hours of work outside of class is required per week.

ART 351: 3D Animation Studio I

This course provides advanced work in the development of 3D animation. Students will develop a project and learn how to execute it, starting from conception to its final presentation. Production techniques, project planning, and linear versus non-linear narrative are all components covered in this course. Students will become proficient in using 3D animation software. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. Prior experience with computer aided modeling and rendering is required. A minimum of 4 hours of work outside of class is required per week. Open to all students in Electronic Media and the College of Visual and Performing Arts except Music, Music Education, and Communication Studies. Prerequisites: CFT or ART 171 Computer Aided Modeling and Rendering. Open to Electronic Media majors and the college of Visual and Performing Arts except Music, Music Education, and Communication Studies.

ART 352: 3D Animation Studio II

This course provides advanced work in the development of 3D animation. Students will develop a project and learn how to execute it, starting from conception to its final presentation. Production techniques, project planning, and linear versus non-linear narrative are all components covered in this course. Students will become proficient in using 3D animation software. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. Prior experience with computer aided modeling and rendering is required. A minimum of 4 hours of work outside of class is required per week. Open to all students in Electronic Media and the College of Visual and Performing Arts except Music, Music Education, and Communication Studies. Prerequisites: CFT or ART 171 Computer Aided Modeling and Rendering. Open to Electronic Media majors and the college of Visual and Performing Arts except Music, Music Education, and Communication Studies.

ART 353: 3D Animation Studio III

This course provides advanced work in the development of 3D animation. Students will develop a project and learn how to execute it, starting from conception to its final presentation. Production techniques, project planning, and linear versus non-linear narrative are all components covered in this course. Students will become proficient in using 3D animation software. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. Prior experience with computer aided modeling and rendering is required. A minimum of 4 hours of work outside of class is required per week. Open to all students in Electronic Media and the College of Visual and Performing Arts except Music, Music Education, and Communication Studies. Prerequisites: CFT or ART 171 Computer Aided Modeling and Rendering. Open to Electronic Media majors and the college of Visual and Performing Arts except Music, Music Education, and Communication Studies.

ART 354: 3D Animation Studio IV

This course provides advanced work in the development of 3D animation. Students will develop a project and learn how to execute it, starting from conception to its final presentation. Production techniques, project planning, and linear versus non-linear narrative are all components covered in this course. Students will become proficient in using 3D animation software. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. Prior experience with computer aided modeling and rendering is required. A minimum of 4 hours of work outside of class is required per week. Open to all students in Electronic Media and the College of Visual and Performing Arts except Music, Music Education, and Communication Studies. Prerequisites: CFT or ART 171 Computer Aided Modeling and Rendering. Open to Electronic Media majors and the college of Visual and Performing Arts except Music, Music Education, and Communication Studies.

ART 355: 3D Animation Studio V

This course provides advanced work in the development of 3D animation. Students will develop a project and learn how to execute it, starting from conception to its final presentation. Production techniques, project planning, and linear versus non-linear narrative are all components covered in this course. Students will become proficient in using 3D animation software. Students will also learn how to plan and create storyboards to organize their animation ideas effectively. Prior experience with computer aided modeling and rendering is required. A minimum of 4 hours of work outside of class is required per week. Open to all students in Electronic Media and the College of Visual and Performing Arts except Music, Music Education, and Communication Studies. Prerequisites: CFT or ART 171 Computer Aided Modeling and Rendering. Open to Electronic Media majors and the college of Visual and Performing Arts except Music, Music Education, and Communication Studies.

ART 370: Selected Topics in Art Education

Students in this course will have the opportunity to explore special topics, issues, and teaching practices related to art education. Under this prefix, different topics, which provide distinctive learning experiences, will be offered periodically. The specific topic(s) offered for each semester will be listed in the schedule. Instruction will be lecture/seminar. A minimum of 3 hours of work outside of class is required per week.

ART 371: Selected Topics in Art Studio

Students in this course will have the opportunity to explore special topics, issues, and creative practices related to art, design, and visual culture. Under this prefix, different topics, which provide distinctive learning experiences, will be offered periodically. The specific topic(s) offered for each semester will be listed in the schedule. Instruction will be through art studios. A minimum of 3 hours of work outside of class is required per week. Repeatable up to 12 s.h. (6 c.h., 3 s.h.)

ART 385: Individual Problems Seminar

An opportunity is provided to pursue a personal interest in an area of study that represents a particular independent challenge in art education, aesthetic education, or studio. The student will work with the professor on an individual basis during the study of his/her area of focus and will periodically report/display the findings/results to his/her peers in a seminar setting.

ART 386: Digital Sculpture

Students in this course will examine new types of digital media by learning to operate a microcontroller (which is a small computer) and dismantling objects. Students will use the microcontroller to create either an interactive or non-interactive artwork. The course includes an overview of the history of digital art and some reading is required. Students will spend time building circuits, soldering, writing programs, and using these instruments to create sound, light and motion works. Students will gain a new understanding of the psychological, social and ethical opportunities digital media offers. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: FAR 182 or permission of the instructor.

ART 392: Field Experience in Art

This course is designed to provide the student with educational opportunities outside the normal academic program which cannot be gained through the more traditional course structure. By serving as apprentices, interns, aides or assistants in a variety of settings ranging from public institutions to private industries, businesses and studios, the student will be able to augment and extend his or her educational experiences to achieve specific personal/professional career objectives. Variable credits 1 to 16 semester hours.

Minimum of two hours field experience per week or thirty hours per semester for each academic credit hour.

ART 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis

ART 399: Student Exhibition

This student exhibition is a requirement for graduation. All BFA Related Arts with a Visual Arts Concentration degree candidates participate in a Senior Show. Seniors who will be graduating in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduating in May or at the end of either of the two Summer Sessions register to participate in the senior shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least one piece/documentation/record within the confines of the display area being used for the exhibition (usually the Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

Art Criticism

ARC 15VL: Art, Design, and Visual Culture

This course is a survey of the manner in which the visual arts are an influential aspect of the lives of everyone. Design is explored in terms of theory, historical and cultural foundations, materials, and practical design in the environment. Field trips and guest presentations will supplement lecture-visual instruction. Student assignments may be satisfied by both academic and/or studio performance. This course should enable both art students and non-art students to discover together the ways in which designs evolve, the influence of design on their everyday lives, and the importance of art in helping people enjoy a fuller life. The course is designed as a general education humanities elective. Prerequisites: Open to all except those in the following majors: Art Education, Studio Art or Communication Design

ARC 105: Aesthetic Experience in the Arts

This course is designed to acquaint the student with the skills and attitudes needed to understand and cope with aesthetic experience, which is assumed to be a natural component of all human experience. In acquiring such skills and attitudes, the student will gain some general understanding of some aesthetic issues but, and more importantly, the student will be able to respond more effectively to aesthetic experiences. To acquire these skills and attitudes, the student will practice, personally and individually, confronting a wide-range of aesthetic phenomena. This course may be selected under humanities or free electives.

ARC 200VLWI: Visual Culture: Critical Theory

This course provides an introduction to those critical theories and practices that have framed 20th century understandings of visual art, design, and visual culture. Students will read a variety of texts, such as critical theories, biographies, historical essays, and case studies. Students will also interpret a variety of artifacts drawn from the visual arts. Ideas gained from these readings and interpretations will be applied to a wide range of 20th century images, objects, and performances. Students will become conversant with the critical theories and practices presented and will use this knowledge to develop informed opinions through their own writing about visual culture.

ARC 211CDVL: Women in the Arts

This course will provide an overview of women's creative achievements, experiences and status in the visual arts. The focus of this course is on gender; however, issues relating to the intersections of gender with race, class, national origin, ethnicity, age, and sexual orientation will also be discussed. As well, the course will explore the portrayal of women and the way in which cultural definitions of gender shape women's aesthetic expression.

ARC 220: Visual Culture: Global Perspectives

This course will emphasize traditional and contemporary visual culture in a global context. The course is organized through themes that are shared by a range of cultural, ethnic, or community interest groups. Emphasis will be placed upon visual culture that lies outside of the mainstream western fine arts tradition. Students will be introduced to the ways that broad humanistic concepts are expressed by different traditions, with an emphasis on the unique contributions of specific cultures, ethnic, religious groups and individuals. This course will be taught in a lecture/discussion format.

ARC 241CDVL: Color: Perception, Properties, and Production

This course will provide an understanding of color through a broad range of disciplines including the arts, sciences, and humanities. Students can expect to examine the use of color through dyes, paints, and projected technologies, interpret the ways that color has been used to communicate in nature and culture, study biological and psychological aspects of color perception, enjoy the use of color in the production of images, objects, performance, environments and experiences, and understand the physical properties of color. Students will be introduced to the unique contributions of specific cultures, ethnic, religious groups and individuals to our understanding and interpretation of color. This course will be taught in lecture/discussion format.

ARC 261CD: Survey of Crafts

This course is a survey of the crafts beginning with origins, historical impact, craft guilds, craft movements, and resurgence of crafts in contemporary society. Emphasis will be placed on four basic craft areas: clay, fibers, metal, and wood, with an overview of other significant crafts. This course may be taken by non-craft majors and used as a general education elective.

Prerequisites: Department of Art Education & Crafts, Communication Design, or Fine Arts; and ART 31, ART 32, FAR 15 and FAR 16; or permission of the instructor.

ARC 300CTWI: Visual Culture: Critical Practice

This course aims to expand student awareness of the proliferation and pervasiveness of imagery, artifacts, and events in contemporary visual culture. It also seeks to engage students in the critique of images, artifacts, cultural sites, and public spheres. Students are encouraged to use critical strategies to reflect on the relationship of contemporary visual culture to the construction of identity, the richness of global cultures, and the integrity of human-made environments. The course is writing-intensive, emphasizing the need for students to clearly articulate their ideas, using models from disciplines engaged in similar critiques.

ARC 342: Criticism in Art

This course is an advanced criticism course based on the fundamental principles introduced in RAR 105 Aesthetic Experience in the Arts. The visual arts provide the main focus of the course, although other art forms may also be considered to a lesser extent. Students study methods of criticism and the aesthetic theories upon which those methods are based. The writings of contemporary critics are analyzed and compared. Students develop their critical skills as they study original art works. This course may be selected under humanities.

ARC 375: Sel Tps In Related Arts**Art Education****ARU 110CT: Explorations in Art Education**

This course explores the foundations of learning and teaching art and introduces relationships between art, learners, and educational settings. Students in the course will investigate the history of art education and the purposes and function of art education in culture and society. Students in the course will examine pedagogical components to learners' investigations of art, design, craft, and visual culture (e.g. learners, learning environment, artmaking practices, curriculum planning, instructional delivery). An emphasis will be placed on exploring possible professional identities and roles people undertake when teaching about, in, and through art. Course activities will include observations of various art settings, facilitation of artmaking for other learners, art-based research, and critical responses of art in educational settings. The class will include both lecture/discussions and performance-based activities. A minimum of 8 hours of work outside of class is required per week.

ARU 132CD: Art in Alternative Settings

This course introduces and examines educational theories and practices as they are implemented in alternative education settings such as non-school settings (e.g. correctional settings, retirement centers), non-traditional or non-public school settings (e.g. cyber school, charter schools), alternative arts venues, museums, non-profit organizations and community based groups. Course topics include exploration of effective pedagogy for teaching art to diverse communities and cultures and investigation into the development, role and value of museums, contemporary community-based organizations and alternative art venues in relationship to art education. A range of issues, strategies, perspectives and theories associated with teaching in alternative sites will be explored through reflection responses, critical/reading responses, field experiences, and seminar discussions.

ARU 210: Learning in the Visual Arts: Childhood

This course explores learning in the visual arts focusing on childhood (Pre-K-elementary). This course provides learners with an introduction to teaching visual arts (fine art, design, craft) and visual culture in Pre-K-elementary settings. Learners in this class will investigate curriculum planning, individual and social development, instructional strategies, as well as theoretical issues in art education. The class will be conducted within a studio framework and will include observations, presentations, discussions, and performance-based activities.

Prerequisites: Open to Art Education majors with a grade of "B" or better in ARU110 or permission of the instructor

ARU 236: The Arts and Pre-K 4 Education

This course provides Pre-K through Gr4 Teacher Candidates with concepts and skills central to the visual and performing arts (Visual Art, Music, Theater, and Dance). Candidate will learn how to construct developmentally appropriate learning experiences in the arts for Pre-K through 4 students and how to integrate these experiences with other subjects. (3 s.h., 4 c.h.)

ARU 301: Art Education Field Experience

This course is a practical orientation to the teaching of art in a multi-cultural society through being an aide to an art teacher in a school situation. Students have opportunities to experience the adaptation of media and techniques for instruction in the classroom. Seminars, workshops, and individual conferences with the college instructor accompany the experience of the art classroom assistantship. Students are responsible for their own transportation. Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. (6 c.h., 4 s.h.)

Prerequisites: All Students in the Art Education undergraduate major; and SPU 201; and ARU 310 passed with a B- or better; or permission of instructor.

ARU 310: Learning in the Visual Arts: Adolescence

This course provides learners with an introduction to teaching visual arts (fine art, design, craft) and visual culture to adolescent populations. Learners in this class will investigate curriculum planning, instructional strategies, the learning environment as well as contemporary, historical, and theoretical issues in art education. Emphasis will be placed on exploring teacher identity and professionalism in the field. Also, this course will investigate the emotional, physical, social and cognitive development of adolescent student experiences with the lens of difference through representation. The class will be conducted within a framework that will include presentations, discussions, and performance-based activities.

Prerequisites: ARU 110

ARU 315: Museum Education

This course provides students with an introduction to teaching art and visual culture in museum settings. Learners in this class will investigate curriculum planning, individual and social development, instructional strategies, as well as historical and theoretical issues in museum education. Learner activities will include observation of museum education programs, studio and critical response activities, and the design of curriculum plans and instructional materials appropriate for museum settings. The class will be conducted within a studio framework and will include both lecture/discussions and performance-based activities. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 330: Studio Thinking

Studio instruction is a central feature of art education in schools, museums, and community settings. In this course, students will be introduced to a wide range of strategies teachers employ to engage their students in studio thinking (Fine Arts, Crafts, Design). Students will investigate developmentally appropriate strategies used to demonstrate, facilitate, and critique artwork. Students in this class will be introduced to a range of issues, strategies, and perspectives associated with studio teaching methods.

Prerequisites: ARU 110

ARU 331CD: Designing for Disabilities in Art Education Settings

The art classroom is a unique community with specialized learning and its own set of unique challenges. Students will gain expertise in understanding their roles and responsibilities as advocates and teachers of students with disabilities. This course will provide the opportunity to apply information such as: definitions, theories, and laws about working with students with disabilities, into practice within the setting of the art classroom. In addition, they will gain first-hand experience working with students with disabilities, conducting needs assessments, and designing and/or adapting curriculum and tools to make arts learning accessible to all students. (3 s.h., 6 c.h.)

Prerequisites: ARU 110 and SPU 201; or permission of the instructor.

ARU 335: Integrated Curriculum in the Art Classroom

This course introduces and examines the history, theories, goals, and practices for integrating diverse disciplines with art education curriculum. The course offers exploration of meaningful, natural, and significant interdisciplinary of cross-disciplinary connections between art and non-art subjects. Through reflective responses, critical/reading responses, field experience, and seminar discussions the students' will learn how to develop substantive connections between the arts and other subject areas and explore a range of issues, strategies, theories, and resources associated with making interdisciplinary connections for teaching an integrated art curriculum.

ARU 370: Selected Topics In Art Education

Students in this course will have the opportunity to explore special topics, issues, and teaching practices related to art education. Under this prefix, different topics, which provide distinctive learning experiences, will be offered periodically. The specific topic(s) offered for each semester will be listed in the schedule. Instruction will be lecture/seminar. Repeatable up to 9 s.h. A minimum of 3 hours of work outside of class is required per week.

ARU 377: Independent Study: Studio I

An opportunity is provided to pursue an interest in an area of study that represents a particular independent challenge in art education. This study is expected to diverge from normal course requirements. (Repeatable up to 16 semester hours.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned.

ARU 378: Independent Study: Studio II

An opportunity is provided to pursue an interest in an area of study that represents a particular independent challenge in art education. This study is expected to diverge from normal course requirements. (Repeatable up to 16 semester hours.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned.

ARU 379: Independent Study: Studio III

An opportunity is provided to pursue an interest in an area of study that represents a particular independent challenge in art education. This study is expected to diverge from normal course requirements. (Repeatable up to 16 semester hours.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned.

ARU 380: Independent Study: Studio IV

An opportunity is provided to pursue an interest in an area of study that represents a particular independent challenge in art education. This study is expected to diverge from normal course requirements. (Repeatable up to 16 semester hours.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned.

ARU 390: Clinical Experience and Practicum I

Student teaching is the culminating experience of the undergraduate Art Education program. It provides the student teacher with opportunities to observe professional art teachers on the advanced level and to participate instructionally in the art education programs of the schools. The student teaching semester is divided into two segments, one at the elementary level (K-6) and the other at the secondary level. These are interchangeable with the expectation of continued development of classroom management, teaching strategies, and instructional expertise. The student teacher is expected to plan and teach on both levels. The Practicum is a seminar, scheduled concurrently with Student Teaching; during the seminar, students discuss with the University supervisor teaching strategies, class-room management, application of theoretical models, and other pre-professional concerns.

Prerequisites: All Students in Art Education undergraduate major; and ARU 301 passed with a B- or better; or permission of the instructor

ARU 391: Clinical Experience and Practicum II

Student teaching is the culminating experience of the undergraduate Art Education program. It provides the student teacher with opportunities to observe professional art teachers on the advanced level and to participate instructionally in the art education programs of the schools. The student teaching semester is divided into two segments, one at the elementary level (K-6) and the other at the secondary level. These are interchangeable with the expectation of continued development of classroom management, teaching strategies, and instructional expertise. The student teacher is expected to plan and teach on both levels. The Practicum is a seminar, scheduled concurrently with Student Teaching; during the seminar, students discuss with the University supervisor teaching strategies, class-room management, application of theoretical models, and other pre-professional concerns.

Prerequisites: All Students in Art Education undergraduate major; and ARU 301 passed with a B- or better; or permission of the instructor

ARU 392: Field Experience in Art Education

This course is designed to provide the student with educational opportunities outside the normal academic program that cannot be gained through the more traditional course structure. By serving as apprentices, interns, aides, or assistants in a variety of settings ranging from public institutions to private industries, businesses, and studios, the student will be able to augment and extend his or her educational experiences to achieve specific personal professional career objectives. Variable credit 1 to 16 semester hours. Minimum of two hours field experience per week or thirty hours per semester for each academic credit hour.

ARU 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis

ARU 399: Student Exhibition

This student exhibition is a requirement for graduation. All BS in Art Education degree candidates and certification students participate in a Senior Show. Seniors who will be graduating in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduating in May or at the end of either of the two Summer Sessions register to participate in the Senior Shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least one piece/documentation/record within the confines of the display area being used for the exhibition (usually the Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

ARU 401: Learning in the Visual Arts: Childhood

This course provides learners with an introduction to teaching visual arts (fine art, design, craft) and visual culture in grades preK-5 elementary settings. Learners in this class will investigate curriculum planning, individual and social development, instructional strategies, as well as historical and theoretical issues in art education. Learner activities will include narrative account, observation of elementary teaching settings, studio and critical response activities, and the design of curriculum plans and instructional materials appropriate for art and visual culture in elementary settings. The class will be conducted within a studio framework and will include presentations, discussions and performance-based activities. ARU 401 & ARU 420 are co-requisites and should be taken simultaneously.

Prerequisites: Art Ed. Certification students only

ARU 420: Learning in the Visual Arts: Adolescence

This course provides learners with an introduction to teaching the visual arts (fine art, design, craft) and visual culture to adolescent populations. Learners in this class will investigate curriculum planning, individual and social development in the arts, instructional strategies, as well as historical and theoretical issues in art education. Learner activities will include observation of and interaction with adolescent learners, studio and critical response activities, and the design of curriculum plans and instructional materials appropriate for art and visual culture to adolescents. The class will be conducted within a studio framework and will include presentations, discussions and performance-based activities. ARU 401 & ARU 420 are co-requisites and should be taken simultaneously.

Prerequisites: Art Ed. Certification students only

ARU 430: Studio Thinking

Studio instruction is a central feature of art education classes in Pre K through 12 settings. In this course, students will be introduced to a wide range of strategies teachers employ to engage their students in studio thinking (Fine Arts, Crafts, Design). Students will investigate developmentally appropriate strategies used to demonstrate, facilitate, and critique artwork. Students in this class will be introduced to a range of issues, strategies, and perspectives associated with studio teaching methods.

Prerequisites: ARU 401,420

ARU 440: Visual Culture: Critical Practice and Pedagogy

This course aims to expand the student awareness of the proliferation and pervasiveness of imagery, artifacts, and events in art and visual culture, and provides an introduction to those critical theories and practices that have framed 20th century understandings of visual art, design, and visual culture. Students are encouraged to use critical strategies to reflect on the relationship of contemporary art and visual culture to the construction of identity, the richness of global cultures, and the integrity of human-made environments. The course is writing-intensive, emphasizing the need for students to clearly articulate their ideas, using models from disciplines engaged in similar critiques.

Prerequisites: ARU 401, ARU 420.

ARU 450: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 451: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 452: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 453: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 454: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 455: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 456: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 457: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 458: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 459: Best Practices in Art Education

This course is a study of exemplary teaching in art education. Case studies and model teaching will introduce students to instructional strategies practiced by experienced teachers in noteworthy K-12 art programs. Through lecture/discussion, students will examine how these practices relate to the style and personality of teachers, state and local standards, and the context of specific schools involved in the case studies. An emphasis will be placed upon specific teaching contexts and their applicability to other situations. 1-3 c.h., 1-3 s.h. Repeatable up to 9 s.h.

Prerequisites: ARU 110 & 210 or with permission of the instructor.

ARU 475: Art Education Field Experience

This course is a practical orientation to the teaching of art in a multicultural society through being an aide to an art teacher in a school situation. Students have opportunities to experience the adaptation of media and techniques for instruction in the classroom. Seminars, workshops, and individual conferences with the college instructor accompany the experience of the art classroom assistantship. Students are responsible for their own transportation. Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours. A minimum of 6 hours of work outside of the class is required per week.

Prerequisites: ARU 401 and ARU 420

ARU 490: Clinical Experience and Practicum I

Student teaching is the culminating experience of the Art Education certification program. It provides the student teacher with opportunities to observe professional art teachers on the advanced level and to participate instructionally in the art education programs of the schools. The student teaching semester is divided into two segments, one at the elementary level (K-6) and the other at the secondary level. These are interchangeable with the expectation of continued development of classroom management, teaching strategies, and instructional expertise. The student teacher is expected to plan and teach on both levels. The Practicum is a seminar, scheduled concurrently with the Clinical Experience; during the seminar, students discuss with the university supervisor teaching strategies, classroom management, application of theoretical models, and other pre-professional concerns.

Prerequisites: ARU 401 and ARU 420 and ARU 430 and ARU 440 and ARU 475

ARU 491: Clinical Experience and Practicum II

Student teaching is the culminating experience of the Art Education certification program. It provides the student teacher with opportunities to observe professional art teachers on the advanced level and to participate instructionally in the art education programs of the schools. The student teaching semester is divided into two segments, one at the elementary level (K-6) and the other at the secondary level. These are interchangeable with the expectation of continued development of classroom management, teaching strategies, and instructional expertise. The student teacher is expected to plan and teach on both levels. The Practicum is a seminar, scheduled concurrently with the Clinical Experience; during the seminar, students discuss with the university supervisor teaching strategies, classroom management, application of theoretical models, and other pre-professional concerns.

Prerequisites: ARU 401 and ARU 420 and ARU 430 and ARU 440 and ARU 475

Art History

ARH 24VL: Art History A

This course will include the historical development of painting, sculpture, architecture, and craft arts from Pre-history through the Gothic Period in Western Art. Emphasis will be placed on cultural, economic, religious and philosophical factors and their relationship to art.

Prerequisites: Non-visual arts major/minors only.

ARH 25VL: Art History B

The course content will include the historical development in Western art of painting, sculpture, architecture, and craft arts from the Renaissance through post-Impressionism. The major artists, movements and styles of painting, sculpture, architecture and photography of the period will be introduced. Emphasis will be the study of art as it is shaped by its cultural, economic, religious, and philosophical context. This is a writing intensive, discussion-based course. It is designed to fulfill a general education requirement and is a large format lecture course.

Prerequisites: Non-visual arts major/minors only.

ARH 26VL: Art History C

This course will investigate the historical development of Western art from the Impressionist period to the present. The major artists, movements and styles of painting, sculpture, architecture and photography of the period will be introduced. The course will proceed chronologically, emphasizing relevant cultural, social, economic, political, and philosophical developments.

Prerequisites: Non-visual arts major/minors only.

ARH 27: History of Animation, Game Art, and Interactive Media

This course introduces students to the history of animation, game art, and interactive media. Technological developments in, and critical debates about, these media will be situated within cultural, social, and artistic contexts, affording a multifaceted study of visual culture in the twentieth and twenty-first centuries.

ARH 124CTWI: Art History A

This course will include the historical development of painting, sculpture, architecture, and craft arts from Pre-history through the Gothic Period in Western Art. Emphasis will be placed on cultural, economic, religious and philosophical factors and their relationship to art.

Prerequisites: Department of Art Education & Crafts, Communication Design, or Fine Arts; or permission of the instructor

ARH 125CTWI: Art History B

The course content will include the historical development in Western art of painting, sculpture, architecture, and craft arts from the Renaissance through post-Impressionism. The major artists, movements and styles of painting, sculpture, architecture and photography of the period will be introduced. Emphasis will be the study of art as it is shaped by its cultural, economic, religious, and philosophical context. This is a writing intensive, discussion-based course. It is designed to fulfill a general education requirement and is a large format lecture course.

Prerequisites: Department of Art Education & Crafts, Communication Design, or Fine Arts; or permission of the instructor

ARH 126CTWI: Art History C

This course will investigate the historical development of Western art from the Impressionist period to the present. The major artists, movements and styles of painting, sculpture, architecture and photography of the period will be introduced. The course will proceed chronologically, emphasizing relevant cultural, social, economic, political, and philosophical developments.

Prerequisites: Department of Art Education & Crafts, Communication Design, or Fine Arts; or permission of the instructor

ARH 302: Early Christian and Byzantine Art

The study of the Christian art of western and eastern Europe, and environs, from Pentecost to the seventh century in the west up to the fifteenth century in the east.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 303: Art of Ancient Greece and Rome

The historical development of art-styles in painting, sculpture, architecture, and crafts and artistic concepts of ancient Greece and Rome from the rise of Greece to the fall of Rome.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 304: Renaissance Art

A study of Renaissance painting, architecture and sculpture with emphasis on the cultural forces which give form to the art. Concentration will be centered on Italy and the emergence of humanism.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 305: Medieval Art: Carolingian to High Gothic

This course presents a chronological development in style, iconography, and iconology of western painting, sculpture, architecture, and other art forms of this period.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 306: Art of Northern Europe: 1350-1580

The art of trans-Alpine Europe as it developed nationally during the time of the Renaissance in Italy. Particular attention is paid to that art of France, Great Britain, the Germanies, and the two Netherlands.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 307: European Art: 1580-1780

This course concerns itself with painting, sculpture, architecture, and the minor arts of Europe of the periods commonly known as the Baroque and Rococo.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 308VLWI: European Art: 1780 - 1880

This course concerns itself with painting, sculpture, architecture, and the minor arts of Europe of that period between Neo-Classicism and the end of Impressionism.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 309: Art Since 1950

This course investigates the painting, sculpture and new art forms created in the later 20th century. Major aesthetic issues, art movements, and the primary artists involved will be studied in their historical and cultural context.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 311: English Cathedrals

England has twenty-six cathedrals, thirteen of which are considered world class architectural structures and the supreme expression of early English architecture. These Anglican structures, dating from monastic foundations in the early middle ages, reveal within their individual forms great divergencies of style. These stylistic variations stem from many sources and span many centuries. This course will investigate the most important events that both created an environment in which the great cathedrals were built and those that brought about the many artistic changes and divergencies in the structures themselves. Four of the most important of these events which will be examined are: the conversion of England to Christianity in the sixth century as a result of the missionary efforts supported by Pope Gregory the Great; the development of the great monasteries in England and the founding of the great bishoprics; the 1066 victory of Duke William the Norman at the Battle of Hastings; and finally, the rapidly spreading influence of the French Gothic style throughout the continent and England. The course will examine how the development of these great religious structures in England was dramatically and finally affected by the Dissolution of the Monasteries in 1539, bringing to a close the era of the great medieval cathedrals in England.

Prerequisites: ARH124 or permission of instructor.

ARH 318CTVL: Picturing Gender

This course investigates the role of art in shaping a culture's understanding of gender. Drawing upon themes from a variety of historical eras from the ancient world through the 19th century in Europe and the United States, it explores how art both reflects and moulds the understanding of gender roles as they are played out across the lifespan as well as range of sexual orientations. Topics pertaining to gender such as social class, power, spirituality, sexuality, work leisure, family life and age will be addressed.

Prerequisites: Take at least one of the following courses: ARH 24/124 or ARH 25/125 or ARH 26/126 or permission of the instructor.

ARH 319: Arts of the Islamic World

The aim of this course is to cultivate an appreciation of the Islamic faith and culture as expressed through the visual arts and architecture from the seventh through the seventeenth century. In addition to examining the major religious monuments of the Middle East, Asia, Europe, and Africa, we will also explore secular works from both the royal and court context and the context of everyday life, such as manuscript illumination and calligraphy, metalwork, ceramics, textiles, ivories and glass. Throughout this course, we will also consider Islam as "the other," examining the ways in which western artists, historians and travelers have interpreted Islamic art and culture.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 321CTWI: The History of Photography

This course investigates the development of photography from its inception (c. 1839) to the present. During the semester students will examine the primary photographers, techniques and aesthetic issues addressed over the last 160 years. These aspects of photography will not be viewed in isolation, but within their historical and cultural context.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 324CDWI: Contemporary African-American Art

This course investigates the history of Africa –American art from the Harlem Renaissance to present day.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 325CDVL: Contemporary African Art and the Diaspora

This course investigates contemporary art in Africa and the Diaspora. Major artistic trends from the colonial era to the present day will be explored. Emphasis will be placed on, but not limited to, the media of painting, sculpture, photography, printmaking, collage, video, and installation as practiced by African artists. Formal developments in these media will be situated within cultural, social, economic, political, and philosophic contexts, affording a multifaceted study of contemporary art by artists of African descent.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 334VLWI: American Art

Aesthetic expressions in architecture, painting, sculpture, interior design, industrial arts, and crafts as experiences of the artist in each major period of American life, to the Armory Show.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 338CTWI: European Modernism: 1880 - 1940

This course investigates the painting, sculpture and architecture created in Europe in the era of early Modernism. Major aesthetic issues, art movements, and the primary artists involved will be studied in relation to their historical and cultural context.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 339: Independent Studies in the History of Art

A course for the student who desires personal and professional guidance in studying precisely defined topics in the history of art. Repeatable up to 12 s.h.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 340: Pompeii and Ravenna: Bookends of the Roman Empire

The course will investigate the art and culture of two of the ancient provincial Roman cities, Pompeii and Ravenna. Each of these sites is exceptionally rich in preserved remains and thus, each one offers a lens through which students will consider art and life at the beginning and end of the Roman Empire, respectively. Throughout the course, comparison and reference will be made first to Rome then to Constantinople, in order to consider artistic and cultural developments as they relate to trends seen in and emanating from the capital city. Emphasis will be placed on wall paintings, mosaics, and the arts, social rituals and material culture of urban daily life in the Roman Empire.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 345: Crosscurrents in Italian and Northern Renaissance Art

This course will deal with the interchange of ideas and techniques between countries south and north of the Alps during the Renaissance. It is designed to show how, in painting and printmaking, the development of visual cultures in Italy, the Low Countries and Germany was intimately connected. The material discussed will range from technical to contextual.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 350: Baroque Art in Italy, France and Spain between 1590 and 1700

This course will take a critical look and the dynamic and dramatic interplay between social, political, as well as economic institutions that contributed to the innovations in the painting, sculpture and architecture of Italy, France and Spain between 1590 and 1700. In addition to discussing the influence exerted on the period's artistic production by the sixteenth century Counter Reformation, the course will consider the various types of patronage (royal, ecclesiastic, civil) that existed during the period, as well as the role of art theory and collecting. Lectures, implemented through slide lectures, classroom discussion, and readings, will introduce references to allegorical language used by artists of the period, both within the workshop model of artistic production and overarching themes that link their works to larger cultural movements.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 351: Baroque Art in The Dutch Republic, Flanders, and England between 1590 and 1700

This course will take a critical look and the dynamic and dramatic interplay between social, political, as well as economic institutions that contributed to the innovations in the painting, sculpture and architecture outside Italy, with emphasis on the Dutch Republic, Flanders, and England between 1590 and 1700. In addition to discussing the influence exerted on the period's artistic production by the sixteenth century Counter Reformation, the course will cover such issues as patronage, the development of new subjects and allegorical language, as well as the growing numbers of women artists. Lectures, implemented through slide lectures, classroom discussion, and readings, will introduce references to allegorical language used by many seventeenth-century artists.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 364: Art and Sport

This class reconsiders the relationship between art and sport, investigating the various ways athletic competition has been represented throughout the history of art. By examining how artists portray and contest the position of sport in society, students will acquire knowledge of artworks and viewpoints frequently overlooked by art historians. A range of media will be studied to match the various meanings attached to sport across diverse cultures, with athletics providing the conceptual link for critical explorations of art, visual culture, and society.

Prerequisites: Take at least one of the following courses: ARH 24/124 or ARH 25/125 or ARH 26/126 or permission of the instructor.

ARH 365WICT: Cut and Paste: A History of Collage

This course investigates the development of collage and its many variations throughout the twentieth and twenty-first centuries including assemblage, photomontage, décollage, and digital cut and paste.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 367: COMTEMPORARY BRITISH ART

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 370CDWI: Art Today: The Next Decade

The avant-garde is a French term referring to those artists who are, at any time, thought to be the most advanced or at the cutting edge. This course will provide an investigation of the work, theories, attitudes and processes of avant-garde artists working today. It will consider the possible future direction of art through presentations of and dialogue with artists, critics, curators, etc. Through slide presentations, students will see a chronicle of selected artists who have made significant contributions to the contemporary art world. This pool of artists will change with the evolving art scene. Students will also study contemporary art by visiting galleries, museums and, in some cases, artists' studios, and by reading articles in major art periodicals. The students will attend presentations and meet with artists through the New Arts Program and the Visiting Artist Series. They will experience art firsthand by visits to galleries and artists' studios in New York City and/or Baltimore, Philadelphia, Allentown, Reading and Washington, D.C. The proximity of Kutztown to these centers of contemporary art offers opportunities to our students that are unique and unavailable to most university communities.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 380: Seminar in ART History

This course serves as a culmination of undergraduate study of Art History, geared primarily for students enrolled in the B.A. Major program as well as those pursuing a Minor. The seminar consists of readings, discussions, and projects designed to further students' understanding of Art History and its diverse methodologies and practices.

Prerequisites: ARH 24 or 124 and ARH 25 or 125 and ARH 26 or 126 and one 300 level ARH course or permission of the department

ARH 385: Selected Topics in Art History

This course will provide opportunities for students to investigate specialized areas of study as the need or opportunity arises. Topics will cover cultures, periods, critical theory and/or aesthetics that are not offered or are only covered superficially in established art history courses.

Prerequisites: ARH 24 /124 or ARH 25/125 or ARH 26/126

ARH 390: Internship in Art History

This course provides an opportunity for the student to experience practices and modes of inquiry pertaining to art history in a professional setting; experiences not found in the conventional classroom or on-line setting. The student will complete 40 hours per academic credits, up to 3 credits, working in a setting where art historical practices are applied. The settings will vary. Possibilities include museums, galleries, historical societies, archives or others appropriate venue. This course may be repeated.

Prerequisites: ARH 24/124 or ARH 25/125 or ARH 26/126 and at least one 300 level ARH course; or permission of the instructor

ARH 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis

Astronomy

AST 16: Core to the Cosmos: Contributions of Women to Astronomy

From the edge of the cosmos to the cores of planets, the scientific discoveries of women shape our understanding of space. Using the perspective of influential women in astronomy, the course explores major astronomical and planetary science discoveries, such as the expansion of the universe, life cycles of stars, formation of the solar system, and the structure of the Earth as well as their role in space exploration and science missions. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts Science majors or count toward major GPA for Physics majors.

Prerequisites: This course does not satisfy major, concomitant, or specialization requirement for Secondary Education and/or Liberal Science majors or count toward major GPA for Physics majors.

AST 20: Introductory Astronomy

This course is a descriptive survey of the heavens, including the constellations and stars, the sun and our planetary system, the celestial sphere, our galaxy, binary and variable stars, nebulae, the elements of astrophysics, cosmogony, the history of astronomy. Weekly laboratory exercises are an integral part of the course. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education Science and/or Liberal Arts Science Majors.

AST 26: Elements of Modern Astronomy

A non-laboratory introductory course of the study of the universe. Special emphasis will be placed on the physical properties of the planets and other members of the solar system, life in the universe, the structure and evolution of stars, and the theories concerning the origin and development of the universe. There are no prerequisites, but this course is not open to students who have taken AST 020-021 or its equivalent. This course does not satisfy the laboratory course requirement for physical sciences under general education.

AST 30QL: Mission To The Planets

More than 50 spacecraft missions have left the Earth's surface in search of answers about the formation of our solar system, our neighboring planets, our moon, and our own planet. These missions illustrate the application of the scientific method in vivid detail as scientists struggled to refine their questions (hypothesis) and obtain the data to test them; then learned to refine the hypothesis and then repeated the process. This course covers the physical, chemical, and geological nature of the planets and their atmospheres; similarities and differences between the Earth and other planets using manned and unmanned space probes and how they have shaped our understanding of the planets. Laboratory experiments illustrate the scientific method and complex decision making required in developing space missions.

AST 40: Honors Astronomy; The History of Astronomical Disc

This course will investigate the significant early astronomical observations, measurements and discoveries which are the foundation of our knowledge of the Universe. During this course each student will, either individually or in small groups, investigate the work of astronomers who have made a contribution to our understanding of the nature of the Universe. During the laboratory portion of this course the student or group will, with the aid of the instructor, devise a method to duplicate the original observation or measurement and lead the class through a "rediscovery" of the nature of our Universe. This may require considerable time spent outside of the regular class time. It will also require the students to become familiar with the use of basic astronomical instruments and observational techniques. They will become proficient with the use of the telescope and collecting telescopic data.

Prerequisites: Student must be a member of Honors program

AST 42: Stars, Galaxies, and Black Holes

This course is a descriptive study of stars, galaxies, and black holes. Included in this course are an introduction to the observation and analysis of starlight and an introduction to orbital mechanics and gravity. Stellar evolution is covered in detail, as are the classification of galaxies and the observation and characterization of black holes. A selected series of lectures and hands- on projects will be done using the planetarium and the on-campus observatory. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts Science majors nor count toward major GPA for Physics majors.

Prerequisites: AST 42 Does NOT satisfy major, concomitant, or specialization requirements for Sec Ed and/or LAS majors nor count toward the PHY major's GPA

AST 140QL: Planetary Science

This course provides an introduction to the observational and quantitative techniques used to understand the characteristics, origin, and evolution of our Solar System. Topics include the formation and evolution of planets, asteroids, comets, moons, and rings. In laboratory exercises, students will use data from NASA and other missions to explore the dynamic evolution of our Solar System.

Prerequisites: MAT 105 or MAT 115, with a co-requisite of PHY 40 or 100.

AST 142: Stellar & Galactic Astronomy

This course is a survey of stars and stellar systems including the sun as a star, stellar properties and distances, binary stars, variable stars, star clusters, stellar evolution, galaxies and the universe. Some concepts of astrophysics, radio astronomy and cosmology are introduced. There will be several planetarium and telescopic observation sessions. Actual data acquired at national and local observatories, including the Kutztown University Observatory, will be incorporated into laboratory exercises.

Prerequisites: PHY 40 or PHY 100 or permission of the instructor.

AST 205: Planetary Surface Processes

This course examines the physics of processes that break solid rock into transportable materials and the physical and chemical mechanisms behind the movement and deposition of that material on planetary surfaces. Using quantitative analysis, laboratory, remote sensing, field experiments, and qualitative assessment, this course links the physical and chemical weathering of planetary surfaces, including the fundamentals of fluid flow, sediment transport, erosion, and deposition to processes ranging from microscopic to mountain building. A laboratory course, planetary surface processes focuses on collecting and using actual data sets and applying them to the sedimentary, tectonic, and atmospheric history of a planet.

Prerequisites: GEL 102 or PHY 100 or permission of the instructor.

AST 240: The Planetarium

This course introduces students to the planetarium, its operation, and its maintenance. The student will learn the operation of the digital planetarium projection system and the computer scripting program used to create planetarium presentations. Also covered in this course are methods of digital image, video, and audio manipulation.

Prerequisites: AST 142-143 or Permission of the Instructor

AST 340: Introduction to Astrophysics

This course is concerned primarily with a study of the physical processes taking place in stars and nebulae and with methods of interpreting the spectra of these objects. Among the topics discussed will be the radiation laws, atomic spectra, ionization and excitation laws, classification of stellar spectra, model stellar atmospheres, structure and evolution of stars and cosmic radio waves.

Prerequisites: AST 142 - AST 143, PHY 100 - PHY 101, PHY 102 - PHY 103, and MAT 273 or MAT 274.

AST 342: Astrophysics

This course explores the physics of astronomical phenomena, from processes within our Solar System to the creation and evolution of stars, galaxies, and the Universe. The course is designed for physics majors and other science majors with strong interest in astronomy, physics, and mathematics. This course takes a mathematically rigorous approach of applying basic principles of physics to astronomy, and therefore also provides a foundation for more advanced (undergraduate and graduate level) coursework in astrophysics.

Prerequisites: PHY 212 and MAT 273

AST 350: Practical Astronomy

This course is concerned with a study of the techniques required in making and reducing astronomical observations. The positional aspects of astronomy will be covered in detail. This course will also focus attention on methods modern data collection, reduction, and analysis using CCD detector systems, and on the various types of telescopes. The students will be required to carry out observing projects using the Kutztown University's on-campus telescope and the remote robotic telescopes located in New Mexico and South Australia.

Prerequisites: PHY 102, AST 142 and MAT 182

AST 370: Research in Astronomy

This course will involve an individual research program on a specialized topic in astronomy and will require either library research, observational work using Kutztown University's on-campus telescopes and/or remote robotic telescopes, computer simulations, the planetarium, or a combination of these. The results of such work might be published. This course may be repeated for credit.

Prerequisites: Requires instructor consent.

AST 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

Biology**BIO 10: Introduction to Biology**

This course is designed to provide students with an introduction to basic concepts within biology to enable them to critically evaluate biological information related to issues that will impact their lives and many facets of our society. Basic concepts related to the areas of health, biotechnology, genetics, biodiversity, the environment, ethics, and evolution will be covered. This course is designed to provide students with hands-on experience examining biological systems, with an emphasis on the processes of scientific inquiry and the analysis of relevant data. This is a lecture/laboratory course intended for the general education of non-science majors, and is not applicable to biology major programs.

BIO 12: Introduction to Biology: Human Biology

This course is designed to provide the student with an introduction to organ systems and basic concepts within human biology to enable them to critically evaluate biological information related to issues that will impact their lives and many facets of our society. Basic concepts related to areas of health and disease, biotechnology, genetics and inheritance, bioethics, anatomy, physiology, behavior, and evolution will be covered. This course is designed to provide students with hands-on experience examining human biological systems, with an emphasis on the processes of scientific inquiry and the analysis of relevant data. This is a lecture/laboratory course intended for the general education of non-science majors, and is not applicable to biology major programs.

BIO 50: Window to the Oceans

This is a course in marine biology designed for the non-science major. Students will be introduced to the major groups of marine organisms, diverse coastal habitats, adaptations and distribution of organisms within marine habitats, and the potential for human impact on marine organisms and the environment. Current discoveries and "hot topics" within the field of marine biology will also be discussed. Laboratory work will include hands-on experience with sampling methods and equipment from both shore-based and boat-based platforms, general identification of marine plants and animals, and first-hand observation of different coastal habitats, their residents and unique adaptations. This course will be taught at the Marine Science Consortium in Wallops Island, VA. (3 s.h., 4 c.h.; this course is also offered with the MAR prefix.)

BIO 60: Introduction to Ecology

Ecology is the scientific study of the interactions among living organisms, and between organisms and their environments. Students will explore basic ecological patterns and processes that affect populations, communities, and ecosystems, and apply the principles of ecology to understanding selected global and local environmental problems. Laboratory and field sessions will emphasize scientific inquiry as well as ecological principles and techniques. This course will provide a viable option for non-science majors to explore their interest in ecology, while fulfilling their general education biology lab science requirement.

BIO 104: Principles of Biology

This course provides students with an introduction to the biological principles and functional aspects of biology that will serve as a foundation for understanding the biology of plants and animals. The concepts covered in this course include the scientific method, cellular structures and processes, genetics, evolution, and biodiversity. This class meets for three hours of lecture and three hours of laboratory per week.

Prerequisites: Registration restricted to Science majors/minors and some Secondary Education major. If you believe you should be able to take this course as a requirement, please contact the department.

BIO 106: Introduction to Zoology

This course contains an introduction to the principles of zoology. It places emphasis on the topics of evolution, ecology, animal diversity and comparative characteristics of selected phyla in the kingdoms Protista and Animalia. There are three hours of lecture and three hours of laboratory per week.

Prerequisites: BIO 104 with a grade of "C" or better.

BIO 108: Introduction to Botany

This course is an introduction to the concepts of botany. Emphasis is placed on structure, function, plant diversity, and plant ecology. Topics include plant cellular structure, anatomy and morphology of stems, roots and leaves, transport processes, photosynthesis and respiration, plant growth and development, plant biotechnology, plant diversity, economic botany, and plant ecology. There are three hours of lecture and three hours of laboratory per week.

Prerequisites: BIO 104 with a grade of "C" or better.

BIO 111: Forensic Biology

This course is an introduction to the basic methodology and theory of forensic science focusing on techniques currently used by practitioners to recover, preserve, and analyze biological evidence from a crime scene. The course will examine the ethics of handling evidence, issues of quality control, and the interpretation of various types of biological evidence for the legal system. Students will learn, through the examination of relevant case studies, the value of evidence based on microbiological and molecular analyses (DNA profiling), anatomic and clinical pathologies, and the role of plant and animal materials in forensic studies. This course does not count as biology with a lab and is not applicable for science majors.

Prerequisites: BIO 10

BIO 120: Anatomy and Physiology I

A systematic approach to the integrated study of human structure and function. Emphasis is placed on organization of the body, cells and tissues, integumentary system, skeletal system, muscular system, nervous system and special senses. This course is recommended for nursing and allied health students. Three hours of lecture and two hours of laboratory per week.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 122: Anatomy and Physiology II

A continuation of Anatomy and Physiology I. A systematic approach to the integrated study of human structure and function. Emphasis is placed on the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems. This course is recommended for nursing and allied health students. Three hours of lecture and two hours of laboratory per week.

Prerequisites: BIO 120/121 or permission of the department chairperson.

BIO 130: Environmental Issues: Global Perspectives

An exploration of human interactions with other organisms and the environment. Major topics will include: human impacts on ecosystems, population dynamics, and environmental deterioration. The paradigm for the course is the integration of science, technology and society.

Prerequisites: BIO 010/011 or BIO 12 or BIO 104/105; or permission of the instructor (B.S. Biology: Env Sci; Mar Sci; Physics, Geology, Biochem, and Chemistry cannot use towards major but can take course.)

BIO 140: Biology and Society

The application of the principles of biology to the human as a social organism. The relevant biological aspects of genetics, behavior, anatomy, physiology, and disease in the context of today's world will be stressed. The paradigm for the course is the integration of science, technology, and society.

Prerequisites: BIO 010/011 or BIO 12 or BIO 104/105; or permission of the instructor (B.S. Biology: Env Sci; Mar Sci; Physics, Geology, Biochem, and Chemistry cannot use towards major but can take course.)

BIO 146: Basic Nutrition and Diet Therapy

Introduction to nutrients, vitamins, and minerals. Normal metabolism of each is traced from ingestion through elimination. Modifications in food consistency and in dietary content to maintain and restore health or control disease processes are identified. Relation of food intake and laboratory studies is also included. (Not applicable to biology major programs.)

BIO 160: Introduction to Microbiology

A general introductory study of microorganisms with special emphasis on human microflora and disease. Laboratory studies include methods of culturing and identifying representative forms.

Prerequisites: PLEASE READ: BS Biology, Environmental Science/Biology, Marine Science/Biology majors cannot use this towards their major requirements but may take the course.

BIO 216QL: Genetics

This is a sophomore-level introduction to the principles of heredity intended to serve as a gateway to more advanced work in molecular, cellular, and evolutionary biology. Topics include classic Mendelian genetics, gene interactions, genetic recombination, chromosome structure mapping, DNA structure and replication, mechanisms of gene expression, genetics of bacteria and viruses, gene and chromosome mutations, inheritance of extra-nuclear genes, and evolutionary genetics. There are two hours of lecture and three hours of laboratory per week.

Prerequisites: BIO 104; BIO 106 or 108; and MAT 105 (or higher); or permission of the instructor.

BIO 218: Vertebrate Biology

An introduction to the biology of vertebrates that explores evolutionary relationships, morphology and physiology, behavior and ecology, systematic and taxonomy. The laboratory examines vertebrate morphology and taxonomy through specimen review, dissection, and field trips. Field trips will be conducted during lab time and on weekends. Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 220: Plant Anatomy

A descriptive study of the anatomy of seed plants. Morphological aspects, detailed ontogeny, and the relation between structures and function are utilized to enhance the understanding of plant structures and their variabilities.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 108

BIO 222WI: Environmental Biology

An introduction to the causes and symptoms of environmental deterioration. The effect of ecological perturbations on ecosystems especially the biota. Field experiences are an integral part of the course.

Prerequisites: Take BIO 104 with a "C" or better and either BIO 106 or BIO 108 or permission of the department chairperson.

BIO 224: Applied Environmental Microbiology

This is an introductory microbiology course emphasizing prokaryotic functional anatomy, metabolism, and genetics. Principles of diseases and a basic introduction to immunology are included which provide a background for an overview of a variety of common diseases. Applied and environmental aspects of food, soil, and water microbiology are stressed in both the lecture and the laboratory. The laboratory is an integral portion of the course and emphasizes laboratory techniques, physiological testing, food and water analysis, and identification of unknowns.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 226CTWI: Marine Biology

A study of the major groups of marine organisms, their adaptations and distribution within the marine environment. Laboratory work will include methods of sampling, identification, experimental manipulations, and a weekend field trip.

Prerequisites: Take BIO 104 with a "C" or better and either BIO 106 or BIO 108 or permission of the department chairperson.

BIO 228: Human Physiology

This course provides an integrated study of human structure and function at the level of cells, tissues, organs, systems, and the organism. Emphasis will be placed on the relationship between structure and function, as well as the organization, control, and integration of major body systems including muscular, nervous, endocrine, urinary, cardiovascular, respiratory, digestive, and reproductive. These relationships will be examined under normal conditions, and in response to stressors and disease to better understand function and regulation in the pursuit of homeostasis.

Prerequisites: Take BIO 104 with a "C" or better; BIO 106; CHM 100; or permission of the Instructor.

BIO 230: Taxonomy of Vascular Plants

This course covers the distinguishing features and economic importance of the principle groups of vascular plants. It also covers terminology associated with systematic botany, the historical development of systematic botany including different systems of plant classification, and provides students with practical experience in the identification of selected vascular plants of the region. Each student is required to preserve, mount, and identify a collection of plants. Some of the required field trips may require additional out-of-class time. A one day or overnight weekend field trip may be required in this class.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 108

BIO 232: Plant Physiology

Introduction to physiological activities in plants, including water relations and solute absorption, translocation, growth and development. Laboratory experiments are designed to demonstrate physiological activities in plants and introduce basic techniques used in plant physiological research.

Prerequisites: Take BIO 104 with a grade of "C" or better, BIO 108, CHM 100, and CHM 102.

BIO 235: General Physiology

This course provides an integrated study of structure and function within the Animal Kingdom. Comparisons will examine differences in structure and regulation with consideration for cellular and molecular physiology, but with an emphasis on the integration of physiological systems at the level of tissues, organs, and whole organisms. Major body systems including muscular, nervous, endocrine, urinary, cardiovascular, respiratory, digestive, and reproductive will be examined under normal conditions, and in response to stressors and disease to understand function and regulation in the pursuit of homeostasis.

BIO 236: Introduction to Plant Pathology

A study of plant diseases incited by bacteria, viruses, and fungi are considered in lectures, laboratory exercises, and field trips. Special emphasis is placed on descriptions, diagnosis and controls of the more important plant pathogens.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 108

BIO 242: Ecosystem Ecology

Principles and concepts pertaining to the ecosystem. Introduction to local terrestrial and aquatic habits. Consideration will include pertinent problems of wildlife management and conservation. Each student is required to participate in field trips and to complete a paper on some aspect of the field study.

Prerequisites: BIO 104 with a grade of "C" and BIO 106 or BIO 108 or permission of the instructor.

BIO 244: Ecology

This course provides an introduction to important general concepts in ecology and to the empirical methods ecologists use to study the interactions between organisms and both living and non-living components of the environment. This course involves evaluating ecological processes that influence individuals, populations, communities, and ecosystems. Ecological concepts will be introduced primarily through study of organisms living in terrestrial and freshwater environments. The laboratory portion of the course will introduce students to collection and analysis of quantitative data obtained through empirical methods. A one day or overnight weekend field trip may be required in this class.

Prerequisites: BIO 104 with a grade of "C" and BIO 106 or BIO 108 or permission of the instructor.

BIO 250: Microtechnique

Principles of microscopy, methods of preparing animal and plant materials for microscopic examination, and the interpretation of microscopic preparations are considered. Studies and practical experiences including preparing whole mounts, clearing, sectioning, differential staining, and microphotography.

Prerequisites: BIO 104

BIO 252: Cellular Physiology and Metabolism

This course examines how living things function at the cellular and molecular level, particularly how organisms obtain and utilize energy to sustain themselves. Emphasis will be placed on the structure and metabolism of carbohydrates, lipids, and nitrogen-containing biomolecules, such as proteins, amino acids, nucleic acids and nucleotides. Energy transducing cellular processes, such as glycolysis, the citric acid cycle, electron transport system, oxidative phosphorylation, gluconeogenesis, and the pentose phosphate pathway, will be covered in detail. The interrelationships of the metabolism of carbohydrates, lipids, proteins, amino acids, and other nitrogen-containing biomolecules will be emphasized.

Prerequisites: Take BIO 104 with a grade of "C" or better; BIO 106 or BIO 108; and CHM 214; or permission of the instructor.

BIO 260: Marine Invertebrates

A study of the life history, habits, origin, development, physiology, anatomy and taxonomy of the main phyla of invertebrates. A phylogenetic sequence is followed to show interrelationships among the phyla. Special emphasis is given to the Atlantic marine invertebrates. Laboratory and field work deal with collection, preservation, and identification of local species.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 264: Comparative Anatomy of the Vertebrates

A comparative study of the diversity of morphological structures and organ systems in the major groups of vertebrates. Lecture emphasis is placed on vertebrate phylogeny, morphology, and evolution with respect to function. The laboratory involves an in-depth examination of the comparative morphology of the dogfish shark and domestic cat.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 270CTWI: Research Methods

This course provides students with the foundation to conduct biological research. The course covers grant and research proposal writing, conducting primary literature searches, critiques of journal articles, research design and execution, data analysis, oral and poster research presentations, and scientific writing skills.

Prerequisites: BIO 104 with a grade of "C" and BIO 106 or BIO 108 or permission of the instructor.

BIO 299: HON: Current Topics/AIDS Research

HON: Current Topics/AIDS Research.

BIO 300: Comparative Animal Physiology

This course provides an integrated and comparative study of structure and function across the Animal Kingdom, plus representative Protists. The comparison will examine differences in structure and regulation with consideration for cellular and molecular physiology, but with an emphasis on the integration of physiological systems at the level of cells, tissues, and function whole organisms. A substantial component of the course will be the examination of organization, control, and integration of primary regulatory processes across major group invertebrate and vertebrate groups. These relationships will be examined under normal conditions and in response to environmental stressor reflecting evolutionary adaptation and the potential for acclimation.

Prerequisites: Take BIO 104 with a grade of "C" or better; BIO 106; and CHM 214; or permission of the instructor.

BIO 302: Entomology

The biology of insects with emphasis on morphology, systematics and environmental relationships. Laboratory studies and a required insect collection are an integral part of the course.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 306: Food Microbiology

A study of microorganisms commonly encountered in food systems including pathogens, spoilage organisms, and fermentation organisms. Laboratory studies include methods of isolating, culturing, enumerating, and identifying representative forms together with methods of sampling, fermentation, and microbial destruction.

Prerequisites: BIO 224/225.

BIO 308: Ornithology

An introduction to the biology of bird that explores the origin and evolution of birds, flight, the annual cycle of birds (e.g. migration, breeding, molt), reproductive systems, and conservation. The laboratory examines bird morphology and taxonomy, focusing on birds in the Eastern U.S., through specimen review, dissection, and field trips. Field trips will be conducted during scheduled lab time and on weekends.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 314: Animal Behavior

A biological approach to the study of behavior emphasizing the neural mechanisms, ecology, and evolutionary history of a wide variety of behaviors of both invertebrates and vertebrates. The major topics covered include the structure and function of nerve cells and nerve circuits, comparative sensory physiology, orientation and navigation, feeding, animal communication, learning, and social behavior. The laboratory section of the course includes observational and experimental work in both lab and field.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 316: Invertebrate Biology

The biology of freshwater, terrestrial and parasitic invertebrates. Emphasis is placed on anatomy, physiology, taxonomy, environmental relationships and importance to humans. Laboratory work is supplemented by local field trips.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 320WI: Physiological Ecology of Animals

This course will provide an introduction to the physiology of animals utilizing a comparative and ecological approach. The course will cover the topics of respiration, circulation, metabolism, osmoregulation, thermoregulation, locomotion, and sensory systems in the context of comparing the mechanisms and strategies utilized by animals from different habitats and phylogenetic groups. Some emphasis will be placed on organisms occupying various marine habitats, but freshwater and terrestrial animals and habitats will also be included. Laboratory investigations will examine the physiological responses of both invertebrates and vertebrates to common environmental stresses such as salt load, temperature variation, oxygen supply, and pH change. These investigations may be accomplished through measurements and observations in the field, as well as through experimental manipulations in a laboratory setting.

Prerequisites: BIO 106 and CHM 214

BIO 322: Population and Community Ecology

This course will provide an in-depth analysis of the principles of population and community ecology. This includes population growth, dispersal, population regulation, population structure and will also include community dynamic topics such as predator-prey interactions, competition, succession, community assembly, habitat selection, and species diversity. The aforementioned patterns and processes will be considered in terms of space and time across multiple scales. The laboratory portion of the course will introduce students to the collection and analysis of quantitative data obtained through empirical methods and modeling experiment. A daylong or overnight weekend field trip may be required in this class.

Prerequisites: BIO 104 with a grade of "C" and BIO 106 or BIO 108 or permission of the instructor.

BIO 324: Plant Ecology

This course provides an introduction to plant population, physiology, and community ecology. Lectures, labs, readings, and discussions will focus on plant responses at the physiological, individual, population, and community levels to components of the living and non-living environment. The course will examine topics including plant physiological, anatomical, and reproductive responses to the physical environment, responses to intra- and interspecific competition, a survey of symbiotic relationships, and an introduction to plant conservation biology. Historic and contemporary perspectives in plant community ecology will be examined. Laboratory exercises will be field-oriented and experimental. A one day or overnight weekend field trip may be required in this class.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 108

BIO 326: Marine Ecology

A study of the ecology of marine organisms, the relationships of plants and animals to the physical, chemical and biological factors and their zonation and community structure. Analysis of current issues in marine ecology will also be addressed. Laboratories will include classroom investigations of population and community relationships and a MANDATORY weekend field trip to Wallops Island, VA.

Prerequisites: Take BIO 104 with a "C" or better and either BIO 106 or BIO 108 or permission of the department chairperson.

BIO 330: Histology

The microscopic study of cells, tissues and organ systems of the vertebrates. Laboratory will consist of microscopic study of prepared tissue sections.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 332WI: Aquatic Ecology

This course is designed to provide an understanding of the physical, chemical, and biological properties of freshwater ecosystems and the techniques by which scientists study those ecosystems, through a combination of lectures and lab and field exercises. Students will be required to design, conduct, and present the results of a field-based research project. The course may include an overnight weekend field trip during which students may investigate diurnal patterns in lake and/or stream systems.

Prerequisites: BIO 104, BIO 106, & BIO 108 or permission of the dept.

BIO 334: Medical Parasitology

The biology of parasitic protozoa, flatworms, roundworms, and arthropods of medical importance will be emphasized. The laboratory will focus on recognition and identification of selected local human parasites and those of extreme importance throughout the world.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 336: Medical Microbiology

An introduction to the concepts and clinical applications of immunology, medical bacteriology, medical mycology, medical virology, and medical parasitology. Emphasis is placed on structure, function and identification of pathogens. Emphasis is also placed on immunology mechanisms and diseases.

Prerequisites: Take BIO 104 with a grade of "C" or better and BIO 224; or permission of the instructor.

BIO 338: Ecology of Marine Plankton

A study of the phytoplankton and zooplankton in marine and brackish environments. Qualitative and quantitative comparisons will be made between the planktonic population of various types of habitats in relation to primary and secondary productivity. This course will be offered summers at the Marine Science Consortium, Wallops Island, Virginia.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 340: Marine Mammals

The distribution, population size, physiology, evolution, adaptations and ecological relationships of marine mammals will be studied with an emphasis on mammals of the Atlantic Ocean. This course will stress hands-on understanding of marine mammal physiology, behavior, population dynamics and species diversity. Laboratory and field work will include an extended off-campus field trip to facilities holding and/or studying marine mammals of the NE Atlantic Ocean. In addition, the laboratory portion of this course will emphasize data collection in the field, and subsequent analysis and presentation of the data through a required mini-research project.

Prerequisites: Five courses in biology at the 100-level or above excluding BIO 130 and BIO 140; and at least junior class standing prior to the start of the course or permission of the instructor.

BIO 342: Herpetology

This course will provide an introduction to the biology of reptiles and amphibians. Emphasis is on evolution, comparative anatomy and physiology, ecology, life-history, diversity, and conservation of these groups. Laboratories will provide hands-on investigation of reptile and amphibian anatomy, research techniques, habitat quality, subspecies identification. Weekend field trips may be required in the course.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 344: Marine Botany

A study of marine and marine fringe plants of the Middle Atlantic Coast, their taxonomy, ecology, distribution, life histories, physiology, and economic status. Techniques of collecting, preserving, identifying and herbarium cataloging will be stressed. Exercises in plant ecology, deep core pollen analysis and marine microbiology will be included.

(Same as MAR 342: Marine Botany at Consortium, Wallops Island, Virginia.)

Prerequisites: BIO 104 with a grade of "C" or better & BIO 108

BIO 346: Molecular Biology

A study of the metabolism of the cell, detailing the biosynthetic pathways in regards to the production, conversion and utilization of energy. Laboratory work covers the use of laboratory equipment to reinforce the theories from lecture and familiarize the student with laboratory techniques.

Prerequisites: Take BIO 104 with a grade of "C" or better; BIO 106; and CHM 214; or permission of the instructor.

BIO 348: Biological Oceanography

The interdisciplinary study of the interactions between biological communities and the ocean environment as observed in the distribution of coastal plankton, fish and benthic invertebrates. Field studies of sample populations will be compared to quantitative environmental variables using state-of-the-art sampling equipment. Topics covered include: the effect of current transport on plankton at barrier island passes, the effect of submarine banks on fish populations, ground truth data for satellite imagery, and epibenthic population studies of nearshore and intertidal environments. This course will be offered summers at the Marine Science Consortium, Wallops Island, Virginia.

Prerequisites: Take BIO 104 with a "C" or better and either BIO 106 or BIO 108 or permission of the department chairperson.

BIO 350: Cell Biology

A comprehensive study of the cell with emphasis on how cell structure (biological molecules, biological membranes, and cellular organelles) relates to overall cell function. The laboratory is designed to investigate basic cell structure and function as well as patterns of cell growth with an emphasis on microscopy and various cell staining techniques. Both plant and mammalian cell systems will be utilized.

Prerequisites: Take BIO 104 with a grade of "C" or better; BIO 106; and BIO 108; CHM 214; or permission of the Instructor.

BIO 352: Coral Reef Ecology

A study of coral reef types and the relationship of reef organisms to their environment. Emphasis is given to species diversity/identification, symbiosis, and effects of abiotic factors, predation, and competition on the abundance and distribution of coral reef organisms. A segment of this course involves on-site study of the biology of tropical reefs/organisms and the accumulation of species populations data usually at Roatan, Bay Islands, Honduras, but other reef locations may be used.

Prerequisites: Four courses at the 100-level or above excluding BIO 130 and BIO 140

BIO 354: Developmental Biology

This course is designed to correlate the major stages of development from the DNA blueprint to an organisms final structure with a focus not only on classical embryology but also on understanding how molecular mechanisms relate to the development of organisms. Students will have the opportunity to discuss current issues in developmental biology including stem cell research and cell cloning. The laboratory will consist of a morphological and molecular study of growth and differentiation of a sea urchin, *Drosophila*, frog, chick, and human development. In a culminating activity, students will propose and carry out a short project that focuses on the effects of teratogens on development.

Prerequisites: Take BIO 104 with a grade of "C" or better; BIO 106; and CHM 214; or permission of the instructor.

BIO 356: Immunology

This course is designed to provide a current understanding of the development and function of the mammalian immune system with emphasis on cellular interactions within the human immune system. A significant component of the course will be to understand the basis of the immune system disorders. The laboratory work will provide students with an understanding of the theory and practical aspects of clinical testing and research in immunology. The course will build on the knowledge and skills acquired in Microbiology and related courses.

Prerequisites: BIO 224; BIO 346 or BIO 350; or permission of the Instructor.

BIO 358: Conservation Biology

This course provides students with the scientific foundation needed to understand and apply the principles of conservation biology to contemporary conservation issues. Topical themes of this course include patterns of biodiversity, human threats to biodiversity, extinction trends, and biological protection and restoration strategies. In addition, students will be asked to consider and devise solutions to theoretical conservation issues within a sociopolitical context. Field trips will be conducted during lab time and on weekends.

Prerequisites: BIO 104 and BIO 106 or BIO 108 or Permission of the Instructor

BIO 360: Anatomy of Marine Chordates

A course designed to familiarize the students with the qualitative aspects of the speciation process; to lay the groundwork for understanding the basic and specialized structure of marine chordates; to trace the most obvious or important trends (and their functional significance) in the evolution of this basic structure in various vertebrate lines. The laboratories will be devoted in large part to a reasonably thorough dissection of representative marine vertebrates.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

BIO 370: Research in Biology

A course in laboratory and/or field study and library research on selected topics in Biology. A written proposal outlining the research project must be prepared utilizing established guidelines and submitted to the supervising faculty member and the Department Chairperson for approval.

Prerequisites: Minimum of 18 SH of BIO, GPA of 2.50 or higher, Junior or Senior Standing, and approval of the Biology department.

BIO 371: Selected Topics in Biology

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

BIO 372: Selected Topics in Biology

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

BIO 373: Selected Topics in Biology

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

BIO 374: Selected Topics in Biology

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

BIO 375: Selected Topics in Biology

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

BIO 376: Selected Topics in Biology

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

BIO 377: Selected Topics in Biology

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

BIO 378: Selected Topics in Biology

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

BIO 379: Selected Topics in Biology

Topics in the fields of biology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

BIO 380: Senior Seminar in Biology

This course is designed to provide a forum in which B.S. Biology majors may critically evaluate current trends and concepts in the biological sciences through the venue of student prepared seminars and term papers. It will also serve as a forum through which career opportunities for biologists are discussed.

Prerequisites: Senior standing, restricted to the 4 tracks of the BS Biology major or BSED Biology, or permission of the department chair.

BIO 385: Research In Biology II

A course in laboratory and/or field study and library research on selected topics in Biology. A written proposal outlining the research project must be prepared utilizing established guidelines and submitted to the supervising faculty member and the Department Chairperson for approval.

Prerequisites: Take BIO 370 with a grade of "B" or better.

BIO 390: Internship in Biology

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized professionally oriented program which that assist in future career options may structure a work-study experience with a cooperating agency or organization. A written proposal outlining the internship experience must be prepared utilizing established guidelines and submitted to the supervising faculty member and the Department Chairperson. Departmental approval of the internship is required. This course is repeatable for credit (1-6) credits per semester) but cannot be taken for more than a maximum total of 6 credits.

Prerequisites: Minimum of 8 SH of Biology, (not including courses with a "D" or "F"), Cumulative GPA of 2.0 overall and in major, and approval of the dept.

BIO 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

BIO 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

BIO 435: Advanced Genetics

Current knowledge of the nature, properties, transmission, interaction and variation of hereditary materials, and their significance for the development, expression and evolution of the characteristics of organisms.

Prerequisites: BIO 216 & BIO 217

BIO 440: Evolution

This course examines the theory of evolution by natural selection and its implications for the evolution of organisms. The course covers the history of Darwin's theory as well as modern formulations that incorporate current knowledge in genetics, molecular biology, population biology, paleontology, biogeography, and systematics. Other topics include the evolution of sexual reproduction, the evolution of behavior, the mechanisms of speciation, the main events in the history of life, and applications of evolutionary biology in agriculture and medicine.

Prerequisites: BIO 216

BIO 457: Systematic Entomology

Taxonomic characteristics of important insect families especially those of the major orders. Emphasis will be placed on species of environmental importance and those which illustrate biological concepts. (Not a field course.)

Prerequisites: BIO 302 or Permission of the Department Chair

BIO 460: Cancer Biology

This course is designed to delve deeply into the molecular mechanisms of cancer biology with an emphasis on scientific discovery. Identifying the causes of cancer and the molecular changes associated with cellular transformation are important components of this course. A weekend field trip to our regional cancer center and diagnostic laboratory may be included in this course. The Cancer Biology course will build on the knowledge and skills acquired in Molecular and Cellular Biology.

Prerequisites: BIO 346 and BIO 350; or permission of the instructor.

BIO 470: Selected Topics in Biology

Topics in the field of biology or the work of a biologist that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: BIO 104, BIO 106, & BIO 108 or permission of the dept.

Business**BUS 120: Principles of Business Statistics**

This course is an introduction to statistical concepts with emphasis on their role in business decision making. The course will cover the following topics: measures of central tendency, sampling, hypothesis testing, regression and correlation analysis, and probability distributions. BSBA majors only.

Prerequisites: Open to BSBA majors with a minimum grade of "C" in MAT 105 or "C" in MAT 121; or by permission of the department chairperson

BUS 131: Business Law I

This course is a survey of legal principles found in transactions typified in today's business world. The course features current events, case summaries, e-commerce and cyberlaw, and ethical and critical thinking. Emphasis is placed on the case study method with the following topics examined: the legal environment of business, torts, contracts, agency and employment, and business organizations. BSBA majors only.

Prerequisites: Open to BSBA majors (including Core) or permission of the department chairperson

BUS 171CP: Business Information Systems: Theory & Practice

This course provides an introduction to basic information resource management principles as well as hands-on instruction in solving business problems using spreadsheets. Topics include information systems management, networking, databases, and the role and importance of information technology in business. The course has basic to intermediate coverage of spreadsheet software. Classes are conducted in a microcomputer laboratory using a hands-on approach. BSBA majors only.

Prerequisites: Open to BSBA majors (including core) and Business minors, or permission of the department chairperson.

BUS 310: Advanced Business Computer Applications

This course focuses on the use of information technologies as a managerial tool, which facilitates the solution of complex business problems. Throughout the course, the student will be presented with common business situations and asked to use appropriate information technologies to aide in the data collection, data analysis, development and presentation of solutions. The business situations presented will be applicable to all business majors. Though the specific software used may remain flexible, typically the student will be introduced to the advanced features of spreadsheets.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses.

BUS 332WI: Business Law II

This course is an in-depth study of the law involved in certain commercial transactions with an emphasis upon CPA examination topics not covered in Business Law I. Topics covered include personal property and bailments, real property, intellectual property, contracts for the sale of goods, negotiable instruments, checks and the banking system, secured transactions, bankruptcy, wills, estates, and trusts, and antitrust. This course is recommended for Accounting and Finance majors.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm and College of Business Minors) with a 2.0 GPA in the Business Core courses.

BUS 379: Independent Study

The independent study allows for individualization of the curriculum to meet the specialized needs/interests of students through studies outside of the focus of existing courses. Under the direction of a faculty member, the student will investigate an area of academic interest, to be approved by the department most closely related to the topic of study.

BUS 380: Senior Seminar in Business Administration

Senior Seminar in Business Administration.

BUS 390: Internship in Business

An individual work-study experience will be provided in an approved commercial or institutional organization. This experience will involve placement of a qualified student in an organizational setting which involves his/her area of interest, which provides student training and on-site learning, and which prepares the person for business practice. A student may receive three credit hours of academic credit for an internship which consists of at least 150 hours of internship involvement. Three credits per internship; maximum of two (2) internships.

Prerequisites: Completion of 60 credit hours prior to the commencement of the internship; 2.0 GPA in the major and a 2.0 GPA overall; completion of the lower division business core subjects with a 2.0 GPA (ACC 121, ACC 122, ECO 011, ECO 012, BUS 120, BUS 131 and BUS 171); permission of the College of Business Internship Committee.

BUS 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

Chemistry**CHM 1: Preparatory Chemistry**

This course is intended to prepare students for success in General Chemistry I (CHM 100). Although the topic of this course is chemistry, special emphasis is placed on developing strategies that will enable students to apply mathematical techniques, logical thinking, conceptual understanding and problem solving in all areas of science. Enrollment in this course is limited to science and science education majors who have not taken or who have not successfully completed General Chemistry I.

CHM 20: Introduction to Chemistry

An introduction to the principles of chemistry, including atomic theory, chemical reactions, chemical bonding, kinetic theory, stoichiometry, organic compounds, and nuclear reactions. The traditional topics will be related to contemporary problems. A laboratory course intended for the general education of non-science majors. This course does not satisfy major, concomitant or specialization requirements for Secondary Education Science and/or Liberal Arts Science majors.

CHM 30: The World of Chemistry

The World of Chemistry is a course which includes 26 programs comprising the Annenberg/CPB series of the same name, with readings from an introductory chemistry text and other sources. The course introduces non-science students to chemistry, including its history, contributions to the contemporary world, and future directions. The programs include interviews with eminent chemists, on-site footage of superfund cleanup sites, and computer animation of molecular interactions. Topics include atomic structure and properties, molecular architecture, polymers, environmental issues, and an introduction to organic and bio-chemistry. Laboratory exercises complement and illustrate the topics of the programs. Students may not take both CHM 020 and CHM 030. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education Science and/or Liberal Arts Science Majors.

CHM 35: Powering Our Future: Energy, Climate Change, & Society

This course introduces our past, present, and future sources of energy and their advantages and limitation. Society's non-sustainable pattern of energy use from both a supply and environmental perspective will be discussed including the impacts of climate change. The technical, environmental, political, and societal problems associated with the eventual conversion to renewable energy resources will be investigated. A global perspective for the delicate interplay between energy and society will be gained. This course does not satisfy major, minor, or specialization requirements for Secondary Education and/or Liberal Arts Science Majors.

CHM 40: Principles of Chemistry

This course provides an introduction to the principles related to atomic theory, nuclear reactions, chemical reactions, periodic behavior, chemical bonding, kinetic theory, stoichiometry, pH: acids/bases and organic compounds. It is a laboratory course intended for students with majors that would benefit from a one semester college chemistry experience. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts and Sciences majors in the Departments of Biology and Physical Sciences.

CHM 51: Introduction to Forensic Science

This course provides an introduction to the application of science to criminal investigations. It is an opportunity to learn some fundamental scientific principles as they are applied to the examination of physical evidence from crime scenes. Case studies will be presented which reflect the application of particular forensic techniques. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts and Science majors.

CHM 52: Introduction to Forensic Science Laboratory

This laboratory course provides students with hands-on opportunities to analyze materials commonly encountered in criminal investigations. An array of forensic laboratory techniques, including fingerprinting, chromatography, spectroscopy, DNA analysis, and bloodstain pattern analysis will be applied to the comparison or identification of physical evidence. This laboratory course is optional, but must be taken concurrently with CHM 051; and does not satisfy major, concomitant, or specialization requirements for Secondary Education and Science majors. CHM 051 (without the lab) may be used to satisfy General Education Categories IV. D and V. Students opting to take the laboratory portion of the course (CHM 052) could use it to satisfy General Education Categories IV. C or D, and V. (2 c.h., 1 s.h.)

CHM 98: Introduction To Organic and Biological Chemistry for Nurses

This introduction to organic and biological chemistry is designed for students of Nursing. It is not for science majors in Liberal Arts or Education. The course covers the fundamental theories of organic structure and reaction mechanisms, integrated into discussions of biology important substances and metabolic pathways.

Prerequisites: CHM 100 or permission of the instructor

CHM 100: General Chemistry I

First semester (100-101) The Structure and Behavior of Matter. Emphasis is on chemical arithmetic, chemical nomenclature, atomic theory and structure, periodic classification of elements, gas laws, valence, oxidation, reduction and equation writing. Possession of a hand held electronic calculator is required. Second semester (102-103) continues the first; acids, bases, ionization, equilibrium, and rates of reaction are also studied and applied.

Prerequisites: Registration restricted to Physical Science, Biology and particular Secondary Education majors and/or minors.

CHM 102: General Chemistry II

First semester (100-101) The Structure and Behavior of Matter. Emphasis is on chemical arithmetic, chemical nomenclature, atomic theory and structure, periodic classification of elements, gas laws, valence, oxidation, reduction and equation writing. Possession of a hand held electronic calculator is required. Second semester (102-103) continues the first; acids, bases, ionization, equilibrium, and rates of reaction are also studied and applied.

Prerequisites: CHM 100 or permission of the instructor

CHM 204: Fundamentals of Organic Chemistry

This is a one semester introductory course that covers the fundamental concepts and principles important in understanding the structures of organic compounds and their reactivity. The laboratory portion includes the development of basic laboratory skills necessary to isolate, synthesize and characterize organic compounds and study their behavior. This course will concentrate on the areas of organic chemistry most relevant to biology and environmental science. Not equivalent to CHM214/215 (A course grade of "B" or better will allow this course to be used as a prerequisite for CHM 216/217). Does NOT satisfy course requirements for chemistry or biochemistry major or minor.

Prerequisites: CHM 100/101 and CHM 102/103

CHM 214VL: Organic Chemistry I

Concepts and principles of fundamental group chemistry are used in the study of reactions of organic compounds. Naming, preparation of and properties of compounds are stressed. The correlation of theory is demonstrated as laboratory skills are developed.

Prerequisites: CHM 100/101 and CHM 102/103 or equivalent

CHM 216WI: Organic Chemistry II

Concepts and principles of fundamental group chemistry are used in the study of reactions of organic compounds. Naming, preparation of and properties of compounds are stressed. The correlation of theory is demonstrated as laboratory skills are developed.

Prerequisites: CHM100, 102, 214

CHM 220QLWI: Environmental Analysis

Qualitative and quantitative methods of analytical chemistry are explored by utilizing a "hands-on" approach applied to a variety of environmental samples. The course focuses on the basic components of each analytical technique or instrument, their range of environmental applications, their advantages and limitations, and the physical and chemical phenomena which form the basis of the analytical method. Basic sampling plans and designs are also discussed due to their complementary nature.

Prerequisites: CHM 102

CHM 230QLWI: Analytical Chemistry I

Analytical chemistry involves methods and techniques for determining the structure and composition of matter. Students in Analytical Chemistry I will attack problems of a chemical nature by learning a series of techniques that allow them to identify and quantify various components in samples. Some of the techniques involve chemical fundamentals such as stoichiometry, acid-base equilibria, and careful measurement techniques while others involve sophisticated chemical instrumentation. The lecture portion of the course will uncover the theory underlying these techniques, while the laboratory will provide an opportunity for students to address real-world analytical problems, develop their measurement skills, and gain valuable experience using analytical techniques commonly encountered in research and industry. The methods covered in this class include: gravimetric analysis, volumetric analysis (acid-base titrations), UV/V is spectrophotometry, potentiometry, and gas and liquid chromatography.

Prerequisites: CHM 100/101 and CHM 102/103 or equivalent

CHM 310: Biochemistry I

Biochemistry involves the study of the chemical components of living creatures—from viruses to mammals—to explain how and why chemical reactions happen. Students will learn in detail the molecular components of cells (proteins, lipids, carbohydrates, and nucleic acids) and study the concepts of protein dynamics (kinetics, specificity, and regulation). The laboratory will cover selected techniques of modern protein biochemistry.

Prerequisites: CHM 214/215 and CHM 216/217 or permission of the Instructor

CHM 312: Biochemistry II

This course covers important topics that are not discussed in the first semester of biochemistry. Students will study details of cellular metabolism and its regulation and learn about the information transfer mechanisms in living cells. The laboratory will include studies of biochemical properties of lipids, carbohydrates, and RNA, and an independent research project.

Prerequisites: CHM310 or BIO346 &350

CHM 314: Physical Chemistry I

A study of the law of thermodynamics and their application to solutions and phase equilibria; chemical kinetics; electrochemistry; and an introduction to quantum chemistry (atomic and molecular structure); and statistical mechanics.

Prerequisites: CHM102, PHY102 & MAT181 or permission of the instructor.

CHM 316: Physical Chemistry II

A study of the law of thermodynamics and their application to solutions and phase equilibria; chemical kinetics; electrochemistry; and an introduction to quantum chemistry (atomic and molecular structure); and statistical mechanics.

Prerequisites: CHM 314 & MAT182 or permission of the instructor.

CHM 318: Advanced Biochemistry

The course is designed to study the various biochemical processes of photosynthetic carbon dioxide fixation in higher plants and in photo-synthesis bacteria. Also included is the effect of changing environmental conditions on photosynthesis.

Prerequisites: CHM 310

CHM 320: Advanced Inorganic Chemistry I

The application of physio-chemical principles to understanding structure and reactivity in main group and transition elements. Valence Bond, Crystal Field, VSEPR, and LCAO-MO will be applied to describe the bonding in coordination compounds. Organometallic and bio-inorganic chemistry will be treated, as will boranes, cluster and ring systems, and inorganic polymers. The laboratory will involve both synthetic and analytic techniques and interpretation of results.

Prerequisites: CHM 100, CHM 102, CHM 214, CHM 216 and CHM 230.

CHM 322: Advanced Inorganic Chemistry II

The application of physio-chemical principles to understanding structure and reactivity in main group and transition elements. Valence Bond, Crystal Field, VSEPR, and LCAO-MO will be applied to describe the bonding in coordination compounds. Organometallic and bio-inorganic chemistry will be treated, as will boranes, cluster and ring systems, and inorganic polymers. The laboratory will involve both synthetic and analytic techniques and interpretation of results.

Prerequisites: CHM 100, CHM 102, CHM 214, CHM 216 and CHM 230.

CHM 326: Advanced Organic Chemistry-Mechanisms

The study of mechanisms of organic reactions is emphasized. Modern theory viewpoints are applied to problems in organic chemistry.

Prerequisites: CHM 214/215 and CHM 216/217 or permission of the Instructor

CHM 327: Organometallic Chemistry

The purpose of this course is to examine the structure, bonding, synthesis and reactivity of organometallic complexes associated with organic chemistry reactions. This course will describe the types and properties of ligands utilized in organometallic chemistry and explore the application of organometallic transition metal complexes in the synthesis and reaction mechanisms of synthetic organic chemistry and catalysis.

Prerequisites: CHM 216

CHM 330: Organic Qualitative Analysis

A study of theory and practice in systematic identification of organic compounds: separation, purification, criteria of purity, physical properties, functional group analysis, preparation of derivatives. Instrumental analysis is emphasized as well as classical methods.

Prerequisites: CHM 214/215 and CHM 216/217 or permission of the Instructor

CHM 336: Advanced Physical Chemistry

A course designed to treat some selected topics in physical chemistry in greater detail than is done in the introductory course.

Prerequisites: CHM 314 and CHM 316

CHM 340: Analytical Chemistry II

Analytical Chemistry II continues to develop students' abilities to determine what components are present in various samples and to what extent. Students build upon the foundation laid in Analytical Chemistry I to master a diverse array of analytical techniques. Detailed investigations of oxidation-reduction and complexation equilibria are applied to volumetric analyses. Instrumental techniques within the areas of Spectroscopy (Infrared, Atomic Absorption and Emission, Mass Spectrometry, and NMR), Chromatography (HPLC, GC/MS, and Ion Chromatography), and Electrochemistry (Potentiometry and Voltammetry) will be highlighted. The lecture explores the theory underlying the techniques, while the laboratory provides students with an opportunity to work with state-of-the-art chemical instrumentation to analyze a wide variety of samples.

Prerequisites: CHM 230/231 or ENV 220/221

CHM 346: Computer Data Acquisition and Reduction

This course is meant to introduce the principles and practice of interfacing computers with scientific instruments. It is designed principally for chemistry majors who wish to understand and use existing laboratory computer systems, not for those who wish to design or build such systems. Simple circuits will be constructed to illustrate equipment operation, but use of existing hardware and understanding on the functional level will be emphasized. Similarly, simple programming will be taught and used for illustrative purposes, but use of sophisticated packaged software will be emphasized.

CHM 351: Selected Topics in Chemistry

Through individualized instruction or in small group seminars, the student will study a timely or specialized topic in chemistry. The most appropriate media of instruction will be chosen to meet the specific goals of student and instructor, and these may include faculty and guest lectures, discussion, problem sets, completion of a review paper, student oral presentations, field trips, and student projects which do not fall into the category of laboratory research. Prior to registration, the student must arrange for a faculty supervisor and obtain the permission of the Department Chairperson. May be repeated for a maximum of 6 hours credit.

CHM 352: Selected Topics in Chemistry

Through individualized instruction or in small group seminars, the student will study a timely or specialized topic in chemistry. The most appropriate media of instruction will be chosen to meet the specific goals of student and instructor, and these may include faculty and guest lectures, discussion, problem sets, completion of a review paper, student oral presentations, field trips, and student projects which do not fall into the category of laboratory research. Prior to registration, the student must arrange for a faculty supervisor and obtain the permission of the Department Chairperson. May be repeated for a maximum of 6 hours credit.

CHM 353: Selected Topics in Chemistry

Through individualized instruction or in small group seminars, the student will study a timely or specialized topic in chemistry. The most appropriate media of instruction will be chosen to meet the specific goals of student and instructor, and these may include faculty and guest lectures, discussion, problem sets, completion of a review paper, student oral presentations, field trips, and student projects which do not fall into the category of laboratory research. Prior to registration, the student must arrange for a faculty supervisor and obtain the permission of the Department Chairperson. May be repeated for a maximum of 6 hours credit.

CHM 370: Research in Chemistry I

This course involves laboratory and library research on a topic of a chemical nature. The work will be supervised by a faculty member and the research topic will be acceptable to both the supervising faculty member and the student.

CHM 371: Research in Chemistry II

This course allows a student to continue working on a project which was started in CHM 370 or to investigate a new topic. The work will be supervised by a faculty member and the research topic will be acceptable to both the supervising faculty member and the student. (The combined credit total toward the major program for CHM 370 and CHM 371 will not exceed 4 semester hours. Any additional credit hours count toward free electives.)

Prerequisites: CHM 370 and the consent of the instructor. (The combined credit total for CHM 370 and CHM 371 may not exceed 4 semester hours.)

CHM 372: Research in Chemistry III

This course allows a student to continue working on a project which was started in CHM 370, CHM 371, or to investigate a new topic. The work will be supervised by a faculty member and the research topic will be acceptable to both the supervising faculty member and the student. (The combined credit total toward the major program for CHM 370 and CHM 371, and CHM 372 will not exceed 4 semester hours. Any additional credit hours count toward free electives.)

Prerequisites: CHM 371 and consent of instructor

CHM 373: Research in Chemistry IV

This course allows a student to continue working on a project which was started in CHM 370, CHM 371, CHM 372, or to investigate a new topic. The work will be supervised by a faculty member and the research topic will be acceptable to both the supervising faculty member and the student. (The combined credit total toward the major program for CHM 370 and CHM 371, CHM 372, and CHM373 will not exceed 4 semester hours. Any additional credit hours count toward free electives.)

Prerequisites: CHM 372 and consent of the instructor

CHM 380: Senior Seminar in Chemistry

This course consists of readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Chemistry. Required of all Liberal Arts students majoring in chemistry.

CHM 390: Internship in Chemistry

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized vocationally oriented program which may assist in future career options may structure a work-study experience with the cooperating agency or organization. A proposal outlining the work-study experience should be submitted to the student's supervising faculty member and the department chairperson. Clock hours will be determined by the cooperating agency or organization. Semester hour credit will be based upon the proposal and scheduled clock hours, but a maximum of 4 credits may be applied toward Arts and Sciences electives. Additional credit cannot be applied to the 128 credit hour graduation requirements.

CHM 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

CHM 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

CHM 470: Selected Topics In Chemistry

This course provides students with an opportunity for indepth study at an advanced level of topics that are of current interest in the field of chemistry. The format of the course will vary to best address the educational goals as they relate to the selected topic. This course may be repeated for up to 6 credits provided the same topic is not repeated. Prerequisites: CHM 100, CHM 102 and CHM 214 or Permission of the Instructor

Chinese

CHI 11: Elementary Chinese I

This course is an introduction to Mandarin Chinese, its pronunciation, basic grammar and simplified character writing system. In addition, basic aspects of Chinese culture are presented.

CHI 12: Elementary Chinese II

This is a course for beginners to develop basic skills in pronunciation, aural comprehension, speaking, reading and writing to acquire proficiency in communicating within culturally significant contexts. Course materials emphasize cultural and social values which bring the people of China and Chinese world to the forefront.

Prerequisites: CHI 11

CHI 103: Intermediate Chinese III

This second-year course in Standard Mandarin Chinese is a continuation of Chinese 011 and 012. This course will help students build on their base of first-year Chinese to further improve their proficiency in listening, speaking, reading and writing skills in Chinese. Additionally, this course will introduce student to Chinese civilization as the background for their language learning. Taught principally in Chinese.

Prerequisites: CHI 12

CHI 104: Intermediate Chinese IV

This course is designed for students who have successfully completed CHI 103. The course will further improve their proficiency in listening, speaking, reading and writing skills in Chinese. Additionally, this course will introduce student to Chinese civilization as the background for their language learning. Taught principally in Chinese.

Prerequisites: CHI 103

CHI 221: Chinese Culture Through Literature and Film

This course introduces students to Chinese history and culture through literature and film, focusing on the development of modern China in the 19th and 20th centuries. Topics include Confucianism and education, traditional Chinese values, the impact of the West on Chinese society and culture, China's response to Western values, globalization and the emergence of China's modern identity, China's economic growth and its role in international relations. Taught in English.

Cinema, Television, and Media Production

CTM 10: Introduction to Cinema, Television, and Media

A survey of the historical, technical, economic, regulatory, and social aspects of the electronic media. Traditional broadcast radio and broadcast and cable television systems are considered, as well as satellite, Web, and cellular media delivery. The convergence of mass media technologies and content is given particular consideration. The course also introduces students to electronic media programming, advertising, and audience measurement.

Prerequisites: Electronic Media major/minor or permission of the instructor

CTM 50: Audio Production

An introduction to the sound medium and its applications for Electronic Media majors. The fundamental properties of sound are introduced and related to modern audio production techniques. Students conduct lab exercises in digital recording, editing, multi-track mixing, CD burning and file compression.

Prerequisites: Electronic Media major/minor or permission of the instructor

CTM 55: Fundamentals of Video Production

An introduction to the complete process of video production for professional use. Students learn how video works, how to plan a video production, how to operate various production equipment, how to produce a program, how to evaluate the quality of finished video productions, and how to determine the appropriate type of production for a given circumstance.

Prerequisites: Electronic Media major/minor or permission of the instructor

CTM 70WI: Scriptwriting

An introduction to the craft of writing for film, television, and emerging technologies. Students learn the process and appropriate formats needed for writing commercials, PSAs, promos, documentary outlines and proposals, and dramatic narratives. Students will learn to write for the screen by using shot composition, camera movement, and diegetic and non-diegetic audio.

Prerequisites: Electronic Media major/minor or permission of the instructor

CTM 107: Broadcast Newswriting Workshop

This course presents the basic concepts of broadcast writing styles used in the development of radio news stories. Fundamental principles of writing narration introduced in the core-writing course are expanded upon and new concepts in newsgathering and reporting are introduced. Students write and reproduce short news reports to be broadcast on Kutztown University's Radio Station.

Prerequisites: TVR 70

CTM 130CTVL: Media Theory and Aesthetics

Beginning with a treatment of the process of human communication, this course introduces students to various theories of how media content reaches and affects audience members. The course follows the traditional approach to aesthetics as an understanding and perception of “beauty.” It seeks to apply that approach to media production by exploring fundamental aesthetic considerations for producing effective media content. Specific treatment is given to such topics as narrative structure, visual and sound cues, image framing, lighting, and shot sequencing.

Prerequisites: Electronic Media major/minor or permission of the instructor

CTM 140: Lighting

This course presents advanced techniques, equipment and applications of lighting for video production. Topics introduced in basic production courses are being expanded upon, and new concepts will be introduced. Students conduct lab exercises in camera sensitivity, color balancing, image control, bounce light, lighting interiors, lighting exteriors, single subject interviews, 2-person interviews, master shots and close-ups.

Prerequisites: TVR 055 or permission of the instructor.

CTM 170: Programming and Sales in the Electronic Media

An introduction to the theory and practice of programming and sales in the electronic media, including broadcast radio and television, cable TV, satellite radio and TV, and online video and audio. Specific program formats and schedules are explored with emphasis on audience analysis and sales techniques appropriate to each format.

Prerequisites: Electronic Media major/minor or permission of the instructor

CTM 205: Narrative Video Production

This course is an introduction to visual storytelling from the perspective of the production and technical sides. Students, working in teams will go through all stages of making a 5-10 minute fictional film, from the early stages of pre-production (pitching/writing/revising the scripts, budgeting, casting, assembling a crew, scheduling, location scouting, devising shot lists and storyboards) to shooting, editing, and mixing their projects. Every student will work in a key production position—producer, writer, director, cinematographer, or editor—on at least one project.

CTM 206: Masterpieces in Film History

This course analyzes the films, directors, and movements that shaped the art of cinema from its birth to the present day. Students learn the production models, technological developments, and aesthetic techniques that define cinematic masterworks. This course also introduces students to popular film criticism and its contribution to the discussion of the cinematic "masterpiece."

Prerequisites: CTM majors and minors

CTM 218: Studio Production Practicum

This course offers practical experience in various television studio production crew positions and in all the elements required to produce a studio production. The student serves as a camera operator, floor manager, audio technician, assistant director, producer, and in other crew positions. Students are also responsible for writing scripts, gathering B-roll, and producing and editing short features appropriate to the content of the show. Lighting techniques and set design are also included.

Prerequisites: TVR 255 or permission of the instructor

CTM 220: Media Law & Ethics in the Digital Age

This course introduces students to state, federal and case laws as well as Constitutional issues pertaining to the field of media. It traces their historical development and will explore their pertinence to today's technology and society. The course allows students to develop an understanding of legal rights and responsibilities and an understanding of the legal system. The course covers material such as freedom of the press, copyright, contracts, defamation, privacy issues, access to information, free press and fair trials.

Prerequisites: The completion of 30 credits or permission of the instructor.

CTM 222: The Evolution of Sports and the Media

The Evolution of Sports and the Media will engage students in exploring the origins of media involvement in the sports industry, the history of media coverage of professional sports, the effects of media in sports and techniques used for producing sporting events. This course does not have a production component.

CTM 226: Ethical Issues in the Electronic Media

This course considers ethical issues associated with mass communication activities, with an emphasis on the electronic media. After beginning with a general consideration of the process of ethical inquiry and the conflicts in values as experienced by professionals working in the electronic media, the course then examines specific types of programming. Case studies and examples are used throughout the course to illustrate the topic at hand. Limited enrollment.

Prerequisites: TVR 10 and TVR 220; or permission of the instructor

CTM 227: Promotion and Continuity Workshop

Practical work in various aspects of promotion and continuity. Students work with producers to promote University radio and cable TV programming.

Prerequisites: TVR 10, TVR 50, TVR 55, TVR 70; or permission of the instructor

CTM 250: Engineering and Troubleshooting

Students learn basic video troubleshooting, basic technical terminology and concepts, operation of broadcast test equipment, and alignment and adjustment of video production equipment.

Prerequisites: TVR 50 and TVR 55

CTM 255: Field Production

This course introduces the student to basic single-camera field production. Students learn planning and production strategies for single-camera field productions. Emphasis is placed on shooting to edit. Students are introduced to fundamentals of nonlinear editing. Lighting and audio techniques for field production are treated in depth.

Prerequisites: TVR 55

CTM 262: American Independent Cinema

This course analyzes the history, aesthetics, business, and production techniques of American independent cinema. Students will examine how independent filmmakers worked in opposition to the Hollywood studio system and how those mavericks generated a new cinema and culture inside and outside the studio system. Students will learn how financial and technological limitations spawned personal artistic voices and unconventional filmmaking techniques. The course examines the latest trends in technology, financing and distribution and how independent filmmakers find an audience.

Prerequisites: CTM majors and minors

CTM 306: Audio Post-Production

This course examines audio post-production techniques for video. Topics introduced in TVR 050 Audio Production, and TVR 255 Video Field Production, are expanded upon and new audio production concepts are introduced. Students conduct lab exercises in signal processing, multitrack recording procedures, and audio post-production techniques for video. Limited enrollment.

CTM 324: Laughing Matters: The Evolution of Comedy Through Cinema, TV, and Beyond

This course analyzes comedic media productions in classic cinema and the Golden Age of Television, leading to current day online video content. Students will explore the conventions and techniques used in comedy throughout its history. Theories of humor will also be discussed.

Prerequisites: CTM majors and minors

CTM 325: Comedy Writing and Production for Sitcoms and Screen Media

An introduction to writing and producing comedy content for television and digital media outlets with a heavy emphasis on sitcoms. Students will explore comedy structure and format, joke writing, script critique, and humorous story development for the screen. Basic production techniques of sitcoms and comedic screen media will also be discussed, allowing students to see their jokes translate to the screen. Students will use this knowledge to pitch and create a full-length sitcom script by the end of the semester.

Prerequisites: CTM (Electronic Media) majors and minors and CTM (TVR) 70

CTM 330: Corporate Electronic Media

This course is a survey of Electronic Media used in educational, medical, and other corporate facilities, with an emphasis on the operation of production departments.

Specific production techniques and distribution systems are covered in detail.

Prerequisites: TVR 10, TVR 50, TVR 55, TVR 70 and TVR 255; or permission of the instructor

CTM 331: Copyright and Intellectual Property

This course serves as an introduction into the basics of copyright and intellectual property issues. Topics include Copyright Basics, Fair Use criteria, and Multi-Media copyright issues through the Digital Millennium Act. Students learn what protections copyright laws afford to creators of works, how to obtain permissions to use copyrighted works, how to secure copyright for works they may prepare now or in the future and how to protect those works from unauthorized use by others as allowed by law. Students also explore the many resources available that deal with copyright and intellectual property. Students are required to have internet access for e-mail, on-line discussion, searches and access to course resources.

Prerequisites: TVR 220 or permission of the instructor

CTM 365CP: Post-Production

This course focuses on video post-production equipment and techniques. Students produce programs using advanced post-production techniques.

Prerequisites: TVR 255 or permission of the instructor

CTM 368: Post-Production Practicum

The student gains practical post-production experience by editing feature stories from raw footage produced and shot by students enrolled in TVR 358. The edited features and related materials are then edited into video programs under the direction of student producers enrolled in TVR 358.

Prerequisites: TVR 365

CTM 369: Field /Post Production Practicum

This course offers students practical experience in all aspects of single camera video field production. Students working as a part of a team will be provided opportunities producing, shooting, setting up field lighting and audio as well as editing footage into feature packages and full-length programs for air.

Prerequisites: TVR 365

CTM 370: Selected Topics in Electronic Media

This course is an in-depth study of an electronic media topic of current interest. The course content is normally different each time the course is offered. The course may be repeated for credit to a maximum of six credit hours, provided that the same topic is not repeated.

Prerequisites: Junior standing Electronic Media major/minor or permission of the instructor

CTM 371: Selected Topics in Electronic Media

This course is an in-depth study of an electronic media topic of current interest. The course content is normally different each time the course is offered. The course may be taught as a laboratory class, with an appropriate increase in contact hours. The course may be repeated for credit to a maximum of 6 credit hours, provided that the same topic is not repeated.

Prerequisites: Junior standing Electronic Media major/minor or permission of the instructor.

CTM 372: Selected Topics in Electronic Media

This course is an in-depth study of an electronic media topic of current interest. The course content is normally different each time the course is offered. The course may be taught as a laboratory class, with an appropriate increase in contact hours. The course may be repeated for credit to a maximum of 6 credit hours, provided that the same topic is not repeated.

Prerequisites: Junior standing Electronic Media major/minor or permission of the instructor

CTM 373: Selected Topics in Electronic Media

This course is an in-depth study of an electronic media topic of current interest. The course content is normally different each time the course is offered. The course may be taught as a laboratory class, with an appropriate increase in contact hours. The course may be repeated for credit to a maximum of 6 credit hours, provided that the same topic is not repeated.

Prerequisites: Junior standing Electronic Media major/minor or permission of the instructor

CTM 374: Selected Topics in Electronic Media

This course is an in-depth study of an electronic media topic of current interest. The course content is normally different each time the course is offered. The course may be taught as a laboratory class, with an appropriate increase in contact hours. The course may be repeated for credit to a maximum of 6 credit hours, provided that the same topic is not repeated.

Prerequisites: Junior standing Electronic Media major/minor or permission of the instructor

CTM 375: Live Event Production

This course integrates studio and field production techniques, and emphasizes producing and directing for single and multi-camera productions in the styles of “live television”. It builds upon skills introduced in earlier video, audio, lighting, and editing courses. Those skills are applied to the operation of the KUTV production trailer. All aspects of the production process are further expanded on and explored for studio and field production situations. Students are introduced to multi-camera field production by conducting site surveys and planning and producing several remotes. Students also plan and create production schedules and create all production assets including B-roll, produced roll-ins and graphic elements.

Prerequisites: CTM 255 & 365 & CTM major

CTM 376: Selected Topics in Electronic Media

This course is an in-depth study of an electronic media topic of current interest. The course content is normally different each time the course is offered. The course may be taught as a laboratory class, with an appropriate increase in contact hours. The course may be repeated for credit to a maximum of 6 credit hours, provided that the same topic is not repeated.

Prerequisites: Junior standing Electronic Media major/minor or permission of the instructor

CTM 377: Selected Topics in Electronic Media

This course is an in-depth study of an electronic media topic of current interest. The course content is normally different each time the course is offered. The course may be taught as a laboratory class, with an appropriate increase in contact hours. The course may be repeated for credit to a maximum of 6 credit hours, provided that the same topic is not repeated.

Prerequisites: Junior standing Electronic Media major/minor or permission of the instructor

CTM 378: Selected Topics in Electronic Media

This course is an in-depth study of an electronic media topic of current interest. The course content is normally different each time the course is offered. The course may be taught as a laboratory class, with an appropriate increase in contact hours. The course may be repeated for credit to a maximum of 6 credit hours, provided that the same topic is not repeated.

Prerequisites: Junior standing Electronic Media major/minor or permission of the instructor

CTM 379: Independent Study in Electronic Media

The student pursues an area of interest under the direction of a faculty member. An appropriate creative product such as a research paper, case study, or video production is developed. Repeatable to a maximum of six semester hours.

Prerequisites: Electronic Media major/minor or permission of the instructor

CTM 380: Senior Seminar in Cinema, Television, and Media

This course serves both as a practical survey of the current state of the electronic media industry and as a vehicle for immediate preparation for professional experience. A fundamental purpose of the course is to guide students in searching for and securing a full-time internship for a subsequent semester. The course also covers best practices for seeking and applying for positions in the electronic media industry, including the importance of developing professional connections. Specific attention is given to the freelance aspect of the business.

Prerequisites: Limited to Electronic Media majors who have completed 90 or more credits.

CTM 390: Senior Internship in Cinema, Television, and Media

The Senior Internship in Electronic Media is a program that is designed to give the student a full-time, full-semester, supervised practical experience in an electronic media-related facility, or an appropriate corporate, medical, or educational site.

CTM 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

CTM 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

CTM 400: Electronic Media Research

An introduction to research terminology and methods, including basic statistical procedures. Emphasis is placed on developing the students' ability to identify appropriate areas for research and to formulate specific research questions. Attention is also given both to the structure of the electronic media industry and to the role research efforts play in the functioning of that industry. Various research tools and techniques are applied to current issues in electronic media as an introduction to applied research in the field, a foundation for other courses, and to help graduate students with the foundations of thesis research.

Prerequisites: Electronic Media major/minor or permission of the instructor

CTM 450: Managing Electronic Media

An examination of the structures and functions of various electronic media systems, with an emphasis on effective management. The course applies basic management principles to the specific demands of the electronic media industry. On-line and printed resources are used to provide students with an accurate understanding of the current state of the industry and knowledge of developing trends. Facility and departmental management are considered, with emphasis on financial and personnel issues.

CTM 460: Selected Topics: Current Methods in Electronic Media

An in-depth examination of the state of the art in some aspect of electronic media. The course content will normally change each time the course is offered. Both the theoretical foundations and professional applications of the topic will be covered. The course is intended for Electronic Media majors and professionals working in the field. It may be repeated for credit to a maximum of six credit hours, provided that the same topic is not repeated.

Communication Design**CDE 10: Digital Foundations**

This is an introductory course that will build a solid foundation of computer technology as it relates to the Visual Arts. The course will cover basic knowledge of computer skills required to proceed with further professional growth in the arts with a focus on computer technology, terminology, and the use of software for creating digital art and related works. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: Visual Arts majors only.

CDE 22: Introduction to Digital Design I

This course is a gateway course which will build a solid foundation of computer technology and its relationship to the Communication Design industry. It also will introduce basic knowledge of computer skills required to proceed with further professional growth in this field. Introduction to Digital Design I will concentrate on the introduction of computer technology, word processing, layout and introductory digital editing. This course may be taught either as a half-semester course or as a full semester course.

Prerequisites: Visual Arts majors only.

CDE 122: Introduction to Digital Design II

This course is an intermediate-to-advanced course which will continue to build on the concepts and skills established in CDE 022 Introduction to Digital Design I. CDE 122 Introduction to Digital Design II will augment skills required to proceed with further professional growth in the Communication Design industry as well as introduce additional and more complex material. Introduction to Digital Design II will concentrate on the creation and manipulation of both vector and raster graphic images as well as expand on the more highly-evolved editing capabilities of various layout applications. This course may be taught either as a half-semester course or as a full semester course. Prerequisites: FAR 015, FAR 016, ART 031, ART 032, and students must earn a grade of "C" or better in CDE 022 AND have permission of the Communication Design Department.

CDE 130CPVL: Typography

A study of the principles of designing with type, including type history, and technological advancements. There is special emphasis on type selection, specification, and creative typographic design solutions. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: FAR 015, FAR 016, ART 031, ART 032, and students must earn a grade of "C" or better in CDE 022 AND have permission of the Communication Design Department.

CDE 140: Digital Translation

This course is a study of graphic and interactive design fundamentals and practices as they relate to communicating ideas through a digital medium including the World Wide Web (WWW) and computer-based applications. (3 s.h., 6 c.h.) A minimum of 3 hours of work outside of class is required per week.

Prerequisites: FAR 015, FAR 016, ART 031, ART 032, and students must earn a grade of "C" or better in CDE 022 AND have permission of the Communication Design Department.

CDE 141CMCT: Visual Translation

The study and practice of techniques for representing visual ideas. A variety of tools and contemporary technology will be used in developing designs for presentation. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: FAR 015, FAR 016, ART 031, ART 032, and students must earn a grade of "C" or better in CDE 022 AND have permission of the Communication Design Department.

CDE 147: Visual Thinking

A course in the study of idea development as it applies to the graphic communicator. A variety of idea-generating techniques are explored with emphasis upon quick visual exercises to stimulate fresh thinking. This course may be taught either as a half-semester course or as a full semester course.

Prerequisites: FAR 015, FAR 016, ART 031, ART 032, and students must earn a grade of "C" or better in CDE 022 AND have permission of the Communication Design Department.

CDE 151: Illustration Techniques

This course is designed to provide the student with a knowledge of the graphic illustration techniques used in professional illustration. The materials and medias in illustration will be explored, and the student will begin to learn how to construct an illustration and which concepts will communicate most effectively.

Prerequisites: FAR 015, FAR 016, ART 031, ART 032, and students must earn a grade of "C" or better in CDE 022 AND have permission of the Communication Design Department.

CDE 220: Print Media Production

A course in the study of print media reproduction processes to facilitate effective preparation of art for the various contemporary printing methods. This course may be taught either as a half-semester course or as a full semester course.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 022, CDE 122, CDE 130, CDE 140, CDE 141 and CDE 147 or with permission of the Communication Design Department.

CDE 231: Advanced Typography

Students in this course will further explore the possibilities of the typographic form as a means of visual communication. Emphasis will be placed on expressive typography and mastery of typographic design and layout. Students will use advanced typographic techniques to create communications solutions that might include advertisements, promotions, brochures, packaging, educational materials, books or posters among others. The primary design element utilized will be typography. Students will learn to use typography to communicate as both art and message through experimentation, manipulation and integration of letterforms and imagery. This course may be taught either as a half-semester course or as a full semester course.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 022, CDE 122, CDE 130, CDE 140, CDE 141 and CDE 147 or with permission of the Communication Design Department.

CDE 238: Graphic Design I: The Visual Message

A study of the symbolic properties of graphic elements and the interaction of type and image as applied to visual communications. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: CD and Art majors with CD 22, 122, 130, 141, 147; all with a grade of "C-" or better

CDE 239: Graphic Design II: Editorial Design

The study of the design and structuring of information for magazines, newspapers, newsletters and periodicals. The primary focus of the course will be on the concept and design of the publication, which could include covers, content pages, special sections or supplements, feature stories and articles. Students will learn how to analyze extensive bodies of information, assess the needs of the intended audience and design print media that is meaningful and appropriate. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 022, CDE 122, CDE 130, CDE 140, CDE 141, CDE 147 and CDE 238 or with permission of the Communication Design Department.

CDE 241: Advertising Design I

This course is a study of the fundamentals of the history and the fundamentals of advertising, the breakdown of roles within an advertising agency, and the function of the advertising designer relative to this hierarchy. Emphasis will be placed on accurate communication of the advertiser's message through appropriate development of concepts, words and visuals which reflect strategy, positioning and brand personality.

Prerequisites: CD and Art majors with CD 22, 122, 130, 141, 147; all with a grade of "C-" or better

CDE 242: Advertising Design II

Advertising Design II is a continuation of the study and development of advertising. Emphasis is placed on creative solutions that are "on strategy" regardless of the media.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 241 or with permission of the Communication Design Department.

CDE 252: Illustration I

Illustration I is the study of the fundamental building blocks of digital illustration. A variety of digital techniques and methods digital illustrators use will be explored. Concepts and compositional forms will be also addressed.

Prerequisites: CD majors only with CDE 151 with a grade of "C-" or better, or with permission of the instructor.

CDE 253: Illustration II

This course delineates the different markets available to the illustrator. The student will learn how to market an illustration portfolio and will continue with specific problems simulating real illustration jobs. Copyright, self promotion and pricing illustrations will also be discussed.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 252 or with permission of the Communication Design Department.

CDE 271: Television Graphics**CDE 276: Interactive Design I: Web Design**

This course will introduce students to design for the World Wide Web. Since its inception in 1993 the World Wide Web has become a pervasive form of communication throughout the world. The need for skilled designers has increased as the WWW has transformed from text-based documents to a multimedia communications system. Digital Design II will prepare students to create HTML-based web pages and sites and to understand the technical infrastructure of network-based communications. (6 c.h., 4 s.h.) Prerequisites: CD and Art majors with CD 22, 122, 130, 141, 147; all with a grade of "C-" or better

CDE 277: Interactive Design II: Multimedia

The study of design applying theories of human-computer interaction including the incorporation of static and moving visuals, sound, and language in a manner where the user is involved in a rich and meaningful experience. Interactive Design II focuses on the skills and knowledge necessary for creating content where the user's actions are answered in predictable (question & answer) and unpredictable (random events) ways; where the user is given control of the environment of the interface including selecting sounds, volume control, and playing video. Multimedia projects are designed for computer games, content contained on CD ROMs, educational kiosks, corporate presentations and for broadband web content.

Prerequisites: CD majors only and a grade of "C" or better in the following course CDE 276 or with permission of the Communication Design Department.

CDE 307: The Visual Journal: Drawing and Designing Abroad

This is an off-campus class that will be taught while traveling abroad. It is a hands-on course. Each student will complete a portfolio of artwork documenting his or her personal response to the travel experience. Through direct observation, students will explore their personal relationship with the destination, and construct a meaningful document of their travels. Students will have the opportunity to see firsthand the work of artists and designers from other cultures. The course will include guided gallery and museum visits. (This course is also offered under the following designations: CDE 307, FAR 307, CFT 307.) [6 ch 3 sh]

CDE 315: Emerging Media Campaigns

This course will be a study of the ways in which companies and non-profit organizations promote their products and causes to consumers and donors using event, product placement and social networking. Social networking is a relatively new phenomenon that was made possible by the popularity of social networking web sites such as Facebook and Twitter, and hand-held devices including cell phones and smart phones. Product placement has been in existence since Hershey agreed to allow Reese's Pieces to be used in the movie E.T. Sporting events are notorious for selling space in arenas to promote the types of products that would interest their fans. The immediate need of help for Haitian earthquake victims was met by technology that allowed cell phone users to text a donation directly to the Red Cross. Emphasis will be placed on how to reach the appropriate target audience, with each type of advertising, in order to promote products, corporations and non-profit organizations.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 316CPVL: The Advertising Pitch - Strategy, Copy, and Art

The "pitch" process is fast-paced, exciting, and sometimes chaotic. In this course, Strategists, Copywriters, and Art Directors will work together to create a well-thought-out advertising campaign that, in theory, would be of the caliber to land a million-dollar account. Students will practice creating materials, writing a convincing presentation "script", working together as a team in front of an audience, and projecting confidence in their work as they present a professional-quality new business advertising pitch. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: By permission of the department

CDE 330: Animation

This course provides the opportunity for gaining rudimentary skills in the creation of non-computerized animation. While the emphasis is upon the production of animations, the origins of the art form will be explored and the renaissance in independent animation will be examined. A minimum of 3 hours of work outside of class is required per week.

CDE 335: Interdisciplinary Team Project

With an entrepreneurial focus on creating viable products, this course will expose students to the real-world problem solving required to work with interdisciplinary teams while building a web application, mobile application, native application, or an interactive art installation piece. Students will interface with a variety of software packages, programming languages, and hardware products with the goal of creating a functional product by the end of the semester. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: CDE 277

CDE 344: Advanced Illustration Seminar I

The students in these half semester seminars will be required to create a series of illustrations that will be stylistically linked. These pieces will be used as the basis for a professional illustration portfolio. Individual artistic expression will be encouraged. The process and the approach in creating a professional illustration, as well as, an understanding of the different illustration markets and how the individual student's style fits into a specific market will also be explored.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 253 or with permission of the Communication Design Department.

Repeatable up to 4 s.h.

CDE 345: Advanced Illustration Seminar II

The students in these half semester seminars will be required to create a series of illustrations that will be stylistically linked. These pieces will be used as the basis for a professional illustration portfolio. Individual artistic expression will be encouraged. The process and the approach in creating a professional illustration, as well as, an understanding of the different illustration markets and how the individual student's style fits into a specific market will also be explored.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 253 or with permission of the Communication Design Department.

Repeatable up to 4 s.h.

CDE 356: Workshop: Creative Coding

This course is an introduction to computer programming within the context of the arts. Students will build a foundation in visual programming techniques that will be applied to a series of exercises and projects. The course gives students opportunities to interface with a variety of interactive software packages, hardware input and output devices, with the goal of creating compelling interactive artwork. A minimum of 6 hours of work outside of class is required per week. This course may be taught as a half-semester or as a full semester course.

Prerequisites: CD majors only. Students must earn a grade of "C" or better in the following courses: CDE 220 & 231 and at least one of the following CDE 239, CDE 242, CDE 252, CDE 277, or with permission of the Communication Design Dept.

CDE 357: Workshop: Typeface Design

This course is an in depth study of the issues and processes of designing Roman letterforms. The design of typefaces will be presented from both a historical and contemporary perspective. Designing letterforms for a variety of applications will be discussed. Students will develop and design a series of letterforms while considering both structure and purpose.

Prerequisites: Open to students with CDE 130 and CDE 231 or permission of the instructor

CDE 358: Workshop: Digital Animation

Workshop subject material is concentrated and taught in a half semester. Workshop subject is taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. (6 c.h., 2 s.h.)

Prerequisites: CD majors only. Students must earn a grade of "C" or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 359: CDE Workshop: Design for the Greeting Card and Gift Industry

Design for the Greeting Card and Gift Industry prepares students in all disciplines of Communication Design to cultivate marketable skills and develop directed portfolio work for this specialized area in Communication Design. This course gives students opportunities to apply design, illustration and interactive skills in the creation of concepts and imagery for print, dimensional and digital products for the greeting card, stationary and gift industry.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 360: CDE Workshop: Advanced Computer Layout

Workshop subject material is concentrated and taught in a half semester. Workshop subject is taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. (6 c.h., 2 s.h.)

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 361: CDE Workshop: Restaurant Graphics

Workshop subject material is concentrated and taught in a half semester. Workshop subject is taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. (6 c.h., 2 s.h.)

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 362: CDE Workshop: Campus Graphics

Workshop subject material is concentrated and taught in a half semester. Workshop subject is taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. (6 c.h., 2 s.h.)

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 363: Workshop: 3-D Computer Animation

Workshop subject material is concentrated and taught in a half semester. Workshop subject is taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. (6 c.h., 2 s.h.)

CDE 364: CDE Workshop: Poster Design

Workshop subject material is concentrated and taught in a half semester. Workshop subject is taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. (6 c.h., 2 s.h.)

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 365: CDE Workshop: Art of Humor, Satire and Caricature

This course combines studio work with a historical survey of humorous and satirical art. We consider history of humor in print and study successful artists working in the field today. Students will explore their own strategies for new artists entering the field of humorous illustration, such as graphic novels, web comics, zines, and print-on demand publishing.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 366: CDE Workshop: Motion Graphics

Motion Graphics studies the design of time-based graphics and incorporates kinetic type theories, sound usage, video and film production techniques and traditional and digital animation techniques. Workshop subject material is concentrated and taught in a half semester. Workshop subjects is taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. (6 c.h., 2 s.h.)

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 367: CDE Workshop: Package Design

Workshop subject material is concentrated and taught in a half semester. Workshop subject is taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. (6 c.h., 2 s.h.)

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 368: CDE Workshop: Web Presence

This course will focus on an online presence for Communication Design students. The primary project will be to create a web site showcasing the students' work for use in job search and/or starting a freelance business. Students will be required to set up an online hosting service, register a domain name and publish a web site with samples of their work, resume and contact information. Additionally students will set up accounts at various social and career networking sites to create contacts with potential clients and employers. Workshop subject material is concentrated and taught in a half semester. Workshop subjects are taught during either the first or second half of a semester. Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 369: Communication Design Workshop

This course serves as an umbrella for a variety of workshops. Subjects are chosen from the following: Campus Graphics, Digital Animation, Art of Humor, Satire and Caricature, Package Design, Advanced Computer Layout, Restaurant Graphics, 3D Computer Animation, Poster Design, Motion Graphics and Design for the Greeting Card and Gift Industry. Workshop subject material is concentrated and taught in a half semester. Workshop subjects are taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 370: Communication Design Workshop

This course serves as an umbrella for a variety of workshops. Subjects are chosen from the following: Campus Graphics, Digital Animation, Art of Humor, Satire and Caricature, Package Design, Advanced Computer Layout, Restaurant Graphics, 3D Computer Animation, Poster Design, Motion Graphics and Design for the Greeting Card and Gift Industry. Workshop subject material is concentrated and taught in a half semester. Workshop subjects are taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 371: Communication Design Workshop

This course serves as an umbrella for a variety of workshops. Subjects are chosen from the following: Campus Graphics, Digital Animation, Art of Humor, Satire and Caricature, Package Design, Advanced Computer Layout, Restaurant Graphics, 3D Computer Animation, Poster Design, Motion Graphics and Design for the Greeting Card and Gift Industry. Workshop subject material is concentrated and taught in a half semester. Workshop subjects are taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 372: Communication Design Workshop

This course serves as an umbrella for a variety of workshops. Subjects are chosen from the following: Campus Graphics, Digital Animation, Art of Humor, Satire and Caricature, Package Design, Advanced Computer Layout, Restaurant Graphics, 3D Computer Animation, Poster Design, Motion Graphics and Design for the Greeting Card and Gift Industry. Workshop subject material is concentrated and taught in a half semester. Workshop subjects are taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 373: Communication Design Workshop

This course serves as an umbrella for a variety of workshops. Subjects are chosen from the following: Campus Graphics, Digital Animation, Art of Humor, Satire and Caricature, Package Design, Advanced Computer Layout, Restaurant Graphics, 3D Computer Animation, Poster Design, Motion Graphics and Design for the Greeting Card and Gift Industry. Workshop subject material is concentrated and taught in a half semester. Workshop subjects are taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 374: Portfolio Seminar

A review of the student's communication design experiences relative to establishing a senior portfolio for professional purposes. This course is to serve as a culmination of all work done in courses taken previously. Offered in half semester unit only. Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 375: Selected Topics in Communication Design: Graphic D

A course permitting specialized or advanced subjects, not available in other courses, to be offered a occasion warrants. Topics may be in any aspect of graphic design, advertising design, or illustration and may require studio work, research, or travel.

PREREQUISITES may apply in some cases.

CDE 377: Independent Study in Communication Design

Independent study involves individual pursuit and self-determination in Communication Design studio area not being offered by the University. PREREQUISITE: permission for up to 12 s.h. Limit 3 s.h. per semester.

CDE 378: Independent Study in Communication Design

Independent study involves individual pursuit and self-determination in Communication Design studio area not being offered by the University. PREREQUISITE: permission for up to 12 s.h. Limit 3 s.h. per semester.

CDE 379: Independent Study in Communication Design

Independent study involves individual pursuit and self-determination in Communication Design studio area not being offered by the University. PREREQUISITE: permission for up to 12 s.h. Limit 3 s.h. per semester.

CDE 380: Independent Study in Communication Design

Independent study involves individual pursuit and self-determination in Communication Design studio area not being offered by the University. PREREQUISITE: permission for up to 12 s.h. Limit 3 s.h. per semester.

CDE 381: Senior Design Seminar: Corporate Publications

This advanced level half-semester course deals with the organization and design of text-driven publications for industry, service, education and retail. Students will learn how to analyze extensive bodies of information, assess the needs of the intended audience and design print media that is meaningful and appropriate. Students will choose and combine format, layout, typography, materials, design elements and imagery to create a visual gestalt. Projects may take the form of annual reports, capabilities brochures, catalogs, books, folios, press kits or promotional brochures, among others. A minimum of 6 hours of work outside of class is required per week. (2 s.h., 6 c.h.)

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and CDE 239 or with permission of the Communication Design Department.

CDE 382: Senior Design Seminar: Identity Systems

In this half-semester course, students will learn to assess the goals, initiatives, missions and values of a client and communicate the essence of their business visually through semiotics, typography, color and design. In addition to creating a corporate identity, they will learn to apply this identifier to create a brand. Students will learn about the impact of branding in which the company's visual identity is placed in various environments in ways that communicate the characteristics of the organization. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and CDE 239 or with permission of the Communication Design Department.

CDE 383: Senior Advertising Seminar: Non-Profit/Corporate I

This half semester Senior Seminar in advertising is a continuum of the study of advertising with emphasis on the total campaign as it applies to non-profit and corporate/institutional advertising.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and CDE 242 or with permission of the Communication Design Department.

CDE 384: Senior Advertising Seminar: Consumer Product Adver

This half semester Senior Seminar in advertising is a continuum of the study of advertising with emphasis on the total campaign as it applies to Consumer Product Advertising.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and CDE 242 or with permission of the Communication Design Department.

CDE 385: Senior Interactive Design Seminar: Advanced Web

This half-semester course will cover advanced principles and techniques for designing web-based communications. As the Web continues to expand and transform, this course will train students in contemporary design practices and technology. It will build on the skills learned in Digital Design I and II to enable the student to design efficient, effective communication for the World Wide Web.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and CDE 277 or with permission of the Communication Design Department.

CDE 386: Senior Interactive Design Seminar: Advanced Multimedia

Advanced Multimedia is a half-semester seminar allowing for more thorough and deeper instruction in the process and production of interactive design. Advanced Multimedia builds on the skills and concepts learned in Interactive Design II and encourages the student to explore the boundaries for human-computer interaction and focuses on uses for multimedia not previously experienced in Interactive Design II. The format of the course will enhance a student's ability to work efficiently and at a more "real-world" pace. Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and CDE 277 or with permission of the Communication Design Department.

CDE 387: Senior Illustration Seminar: The Visual Essay

This half-semester course is designed to prepare students for the field of illustration. The seminar involves creation of a thematic collection of personal images in the form of a visual essay.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and CDE 253 or with permission of the Communication Design Department.

CDE 388: Workshop: Self-Promotion for Illustrators and Designers

This half-semester course involves exploration of marketing and self-promotion strategies for success in today's illustration and design marketplace.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 389: Senior Illustration Seminar: Developing a Personal Style

Students will create a unified body of work to be used as the basis for a professional illustration portfolio. Individual artistic expression will be encouraged. The process and the approach to creating a professional illustration will be explored. Students will learn of different illustration markets appropriate to their individual style.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and CDE 253 or with permission of the Communication Design Department.

CDE 392: Field Experience in Communication Design

This course is designed to provide educational opportunities not provided in the University structure. Further explanation should be obtained from the Chairperson.

Variable credits 1 to 16 semester hours. Non-repeatable.

CDE 394: Communication Design Internship

Internship provides the senior student concentrating in either Graphic Design, Advertising Design or Interactive Design (Illustration excluded) with professional experience in an area design firm or company design department. The experience will be 40 hours per week for half of a semester. (10 s.h., 40 c.h.)

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

CDE 398: Communication Design Professional Practices

This course will focus on the professional practice and business issues in the Communication Design field. It will address the development of relevant employment and life skills necessary in finding employment in this competitive industry. Materials will be presented through professional presentations, lectures, demonstrations and field trips.

Prerequisites: CD majors only. Students must earn a grade of C- or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

CDE 399: Student Exhibition

Student exhibition is a requirement for graduation. All BFA degree candidates in Communication Design participate in a Senior Show. Seniors who will be graduating in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduating in May or at the end of either of the two Summer Sessions register to participate in the senior shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least one piece/documentation/record within the confines of the display area being used for the exhibition (usually the Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

Prerequisites: Course is open only to Communication Design majors with a "C" in CDE 398 or 105 credits or more.

Communication Design History**CDH 150CD: Historical Survey of Graphic Design A**

The historical development of graphic communications as applied through graphic design, including typography, advertising design and illustration, from pre-historic times through the 19th century. Emphasis is on the search to give visual form to ideas and concepts and to bring order and clarity to information dissemination.

CDH 151CD: Historical Survey of Graphic Design B

Graphic design, advertising design and illustration matured in the 20th Century into recognized professions. This course emphasizes the search to give visual form to ideas and concepts as created within these professions and to delineate how these professions bring order and clarity to information dissemination.

Communication Studies

COM 10: Fundamentals of Oral Communication

The course introduces the theory and practice of oral communication in presentational, interpersonal, and group contexts. Students develop knowledge of, appreciation for, and the requisite skills to communicate effectively in our culturally and professionally diverse world. Students will learn to develop, organize, and prepare messages, as well as apply active and critical listening skills. This course also prepares students to understand the role of perception, ethics, beliefs, attitudes, nonverbal signals, and stereotypical language in oral communication.

COM 52: Voice and Diction Workshop

Maintenance and development of effective vocal quality, audibility, expressiveness and articulation through selection and supervised practice of exercises. Course is repeatable to a maximum of three semester hours.

Prerequisites: COM (SPE) 051

COM 105: Business and Professional Presentations

This course further develops the student's public speaking skills in business and professional situations. Through discussions, activities, and presentations, students develop advanced knowledge of principles necessary for professional and business presentations and practice their skills in presenting before an audience. Cultural sensitivity, ethical practices, and basic research skills are highlighted in accomplishing these goals.

Prerequisites: COM (SPE) 10

COM 121: Introduction to Listening

The course is designed to develop the student's understanding of the listening process through the study of relevant theory and research and to provide an opportunity to apply the theory to a variety of communication contexts through communication exercises and presentations.

Prerequisites: COM (SPE) 10

COM 125: Interviewing: Communication Principles

This course focuses on the development of a working knowledge of the non-therapeutic interview process and the communication skills necessary to effectively interview.

Emphasis will be on both the theory underlying the oral interaction as well as practical application and skill development related to interview preparation, verbal and non-verbal communication, use of questions, and presentation of self.

Prerequisites: COM (SPE) 10

COM 130: Interpersonal Communication

This course is an introduction to the theory and practice of interpersonal communication. It is designed to create an increased awareness and application of the concepts, skills, and strategies that are important to enable students to become interpersonally competent communicators in their personal and professional relationships.

COM 140: Introduction to Communication Studies

This course will provide an introductory survey to the field of human communication and its subdivisions. It will cover a broad range of communication concepts and their application, such as communication in the workplace, effectively using social media, and improving interpersonal relationships. Students will also be exposed to the career opportunities associated with communication studies.

Prerequisites: COM 10 or permission of the instructor

COM 151: Voice and Diction

Basic processes which underlie the production of American speech sounds, syllables and words. A study of the principles of voice, rhythm, rate, quality and stress; analysis of student's voice and articulation; ear training and self-improvement are emphasized; integration into speaking situations.

Prerequisites: COM (SPE) 10

COM 170: An Introduction to Public Relations

This course is designed as an introduction to Public Relations as conducted in business, industry, sports teams, public institutions and by political figures today. Students will examine the functions of public relations and its place within organizations and society.

Prerequisites: COM (SPE) 10

COM 201: Storytelling I

The course is designed to build beginning skills in storytelling to those who would like to use storytelling in various venues including: giving structure to personal tales, using storytelling as a teaching tool, performing for children, developing a performance showcase of stories, and improving communication skills.

Prerequisites: COM (SPE) 10

COM 205CMCT: Argumentation and Debate

The course will present an overview of current and historical thought on constructing, evaluating, and analyzing arguments, and give students practice in utilizing arguments in a debate setting. This course will balance theory and presentation focusing on the identification and analysis of different kinds of reasoning used in varying situations including intercollegiate debates, news media, political speeches and campaigns, advertising, conversation, and education.

Prerequisites: COM (SPE) 10

COM 210CT: Persuasion

This course covers persuasive forums from conventional public speaking to marketing, contemporary media and propaganda. Students will examine traditional, humanistic, social scientific and artistic approaches to public persuasion, from ancient to modern times. Students will demonstrate knowledge of the craft of advocacy and produce original, analytical scholarship about the practice of persuasion; developing skills in critical thinking, evidence assessment, applying persuasive technique, and effective adaptation to varied audiences and situations.

Prerequisites: COM (SPE) 10

COM 212CT: Introduction to Mass Communications

A study of the method and philosophy of mass communications. Historical growth of the mass media is described. Interrelationships of present forms of mass communication are linked to the underlying necessity to write, speak, and think clearly and honestly.

Prerequisites: BA English, BA Eng/ProfWritng, BSED SECED/Eng, BA Eng/Paralgl, BA Eng/Culture&Med, BA Eng/Prof Wri/Cultr&Med, BA ComStudies, BA ElecMedia.

Minors: Prof Writing, Literature, PubRelations, Comm Studies, Digtl Comm&New Med
OR Jr with grade of "C" in ENG23-24-25

COM 214CM: Advanced Public Speaking

This course provides students the forum to further their skills of public expression, as well as to deepen their understanding of what makes a presentation effective and compelling to an audience. Students will undertake rigorous study of relevant theory and research, including the nature of truth and belief, communicative ethics, the nature of human motivation, and the philosophy of social proof. The course will take a critical approach, encouraging students to participate in determining the focus of their assignments, allowing individual students to develop skills relevant to their career goals.

Prerequisites: COM (SPE) 10

COM 215CM: Small Group Communication

This is an introduction to the dynamics of communication in small group settings. Students will study and experience group leadership and participation with an emphasis in small group management, problem solving and effective group member participation. The course assignments will include public discussions in small groups and required group activities, some involving outside of class meetings.

Prerequisites: COM (SPE) 10

COM 216CDM: Performance of Literature

This course focuses on studying literature through performance. Emphasis will be on learning to use vocal and physical expression to communicate the intellectual, emotional, and aesthetic dimensions of literature to the audience/ Students will develop skills in analyzing, interpreting, and performing literature as they study the communicative power of literary texts.

Prerequisites: COM (SPE) 10

COM 217: Music and the Spoken Word

This course is designed to develop and intensify the student's intellectual, emotional and aesthetic responses to the aural qualities of spoken word poetry and music through an examination of the similarities and differences between them. It combines rhythm, rhyme, music, drumming, and the power of words. Emphasis will be placed upon those works that particularly convey their meaning through aural and temporal devices.

Prerequisites: MUS 010 or permission of instructor.

COM 224: Social Media Ethics

This course will explore the origins of ethical behavior and actions within the media and will look at both classical and contemporary approaches to ethical decision making and apply them to modern media practices, particularly social media. At the same time, the course will ask whether the media today are acting appropriately as regards ethical practice, and if not, why not. Not only does the course critique media practices but it will also search for suggestions that will most positively affect both the media institutions and the public with which they interact and upon which they rely for their livelihood.

COM 225: Advanced Solo Interpretation of Texts I

Each student will choose a writer or theme developed into a 15 20 minute solo performance. Applying insight drawn from a study of particular selections themselves, as well as from cultural and aesthetic and postmodern criticism, the students will prepare a solo performance representing a writer or theme. Repeatable up to 6 hours, not more than 3 ch. per semester.

Prerequisites: SPE 120 or with the permission of the instructor.

COM 226: Advanced Solo Interpretation of Texts II

Each student will choose a writer or theme developed into a 15 20 minute solo performance. Applying insight drawn from a study of particular selections themselves, as well as from cultural and aesthetic and postmodern criticism, the students will prepare a solo performance representing a writer or theme. Repeatable up to 6 hours, not more than 3 ch. per semester.

Prerequisites: SPE 120 or with the permission of the instructor.

COM 235: Public Relations Cases and Campaigns

This course provides an in-depth approach to the development of Public Relations programs for various types of organizations and publics. The course will utilize a case study approach to analyzing and understanding the factors necessary to develop appropriate public relation programs and strategies.

Prerequisites: SPE 170 or with the permission of the instructor.

COM 237: Women Writers in Performance

This course is designed to use performance theory and process to analyze significant literary works and key themes in women's writing. Students will use performance theory, feminist theory, and post-modern theory to engage with texts from women writers from diverse cultural and historical backgrounds. We will accomplish this through close readings, class discussions, performance workshops, and performances of texts by female authors.

Prerequisites: COM (SPE) 10

COM 240CTWI: Survey of Communication Theory

This course is designed to explore humanistic and scientific approaches to communication studies that have led to its current status as an intellectually vibrant, socially relevant area of study and practice. Students learn about theorizing and specific theories of communication, leading them to gain an enlarged appreciation of the complex, multifaceted process of communication.

Prerequisites: COM 140, Communication major or minor, and either 30+ credits or permission of instructor

COM 241: Public Relations: Processes and Techniques

This course will build on the basic understanding of public relations and its place in society that was gained from COM 170, Introduction to Public Relations, to explore practical application of the theory as carried out in modern PR operations. Exercises, in which students will produce working PR tools, will put a further practical perspective on the profession.

Prerequisites: COM (SPE) 170 or with the permission of the instructor.

COM 245CM: New Media and Communication

This course is a broad survey of how new media affect communication practices in various fields like: education, business, law, politics, and personal identity. Interactive media, like online social networking and gaming, exhibit characteristics of both mass and interpersonal communication. This complexity has transformed human communication patterns by expanding personal and professional communication possibilities. We will examine current trends and the future development of communication as the world responds to the new media.

Prerequisites: COM 212

COM 248CDCM: Nonverbal Communication

Students will explore some facets, principles, implications, and effects of non-verbal communication. The course will focus on non-verbal codes such as kinesics (body movement), paralanguage (vocalic communication), facial expressions and eye movement, proxemics (space), haptics (touch), and chronemics (time), and artifacts (including art and architecture but also jewelry, clothing, hairstyles, and body modification). Student presentations will highlight how communication is a “package” of symbols.

COM 250: Performance of Latino/a Literature

In this course, students will examine and analyze Latino/a perspectives through the study and performance of literary, theatrical, and cinematic texts. Students will read, discuss, and perform selections of Latino/a literature drawn primarily from Chicano/a, Puerto Rican, and Dominican authors. The course concentrates on contemporary texts by authors who focus on the experience of Latinos/as in the U.S. Through applying performance and rhetorical theory to these texts, students will increase their understanding of the aesthetic, cultural, rhetorical, and performative dimensions of Latino/a literature and the underlying cultural and historical themes that circulate throughout the literature.

Prerequisites: COM 120 or with the permission of the instructor.

COM 271: Sexualities and Communication in Everyday Life

This course is an introduction to the study of sexualities and communication in everyday life. The course is designed to develop a student's ability to think critically about and analyze issues of sexualities in multiple theoretical-and often overlapping-perspectives used by scholars to explore and understand sexualities in the broad field of communication.

Prerequisites: COM (SPE) 10

COM 274: Organizational Communication

This course explores communication within the context of the organization. It attempts to develop competencies in the areas of organizational communication knowledge, organizational sensitivity, communication skills that benefit communication in the organization, which contributes to organizational excellence. Specifically, the course examines the nature and structure of organizations, communication systems and channels, and the relationship of communication to how the organization functions.

Prerequisites: COM (SPE) 10

COM 285: Gender Communication

This course provides a study of gender as it influences verbal and nonverbal communication, and shows how gender communication impacts the lives and experiences of women and men. The course will explore multiple ways communication in schools, family, media and society in general creates and perpetuates gender roles.

Prerequisites: COM 130 (SPE 130)

COM 295: Popular Culture

This course explores how popular culture is created and reflected within a range of media and genres-including television, film, music, fiction, social networks, gaming, and digital technology. Students will learn how to explain and critique popular culture from a variety of theoretical perspectives. The course focuses on how popular culture challenges or reinforces stereotypes, creates communities, and reflects social and political realities.

Prerequisites: COM 101 or permission of the instructor

COM 301: Performance and Culture

This course is an introduction to the field of performance studies. In this course, solo performance will be broadly construed to include aesthetic performance (performance art, theater, music, dance, and visual culture) and everyday presentations of self. We will study the history of the field and its relation to other fields (anthropology, theatre studies, philosophy, dance studies, feminism, political science, critical race theory, legal studies, etc.) and ask questions of how the study of performance can help us to understand contemporary questions of aesthetics, politics, and social culture. This course will place particular emphasis on political performance (in the US and abroad), queer, and minority performance.

Prerequisites: COM 120 or COM 201

COM 307CTVL: The Rhetoric of Visual Media

This course explores the power of mediated images in culture and society. The history of images and their relationship to language and performance is examined and a definition of visual rhetoric in a variety of contexts is investigated. The relationship between visual rhetoric and digital technology will be discussed. How human beings use and interpret both still and moving images to communicate, as well as the role of images in establishing cultural identity and ideology will be considered. Finally, this course will examine the effects imagery has on an audience in terms of self identity, and self esteem. Prerequisites: COM (SPE) 10

COM 310: The Rhetoric of Citizenship

Students will examine a collection of historical and theoretical documents, all of which contributed to important intellectual and cultural developments in the United States' experiment in democratic self-government, as well as how that political vision is impacted by the modern media industry. Based on these examinations, students will produce public statements of personal ideology and political persuasion supported by valid evidence and rational argument; developing skills in critical thinking, respectful public discourse, and productive policy debate. Students will learn how public discourse becomes a vehicle to forward political agendas, and develop the ability to discern, understand, and ultimately compose public advocacy. Prerequisites: COM (SPE) 10

COM 311: Crisis Communication in Public Relations

Public Relations above all concerns itself with mediating conflict between an organization and its publics, including the mass media, activist groups, investors, consumers, employees, and the community. This course will introduce students to a variety of conflicts and crises and provide students with the tools necessary for effective crisis communication, in preparation for becoming crisis managers. Prerequisites: COM (SPE) 170 & COM (SPE) 235 or with the permission of the instructor.

COM 313CD: Communication in a Multi-Cultural World

This course focuses upon the analytic and comparative study of the human communication process as it occurs both across cultures and between people of different cultures. Communication theory is applied to how meaning is derived from behaviors at the interpersonal, group, and international settings. Subjects examined include: variations and similarities in communication across cultures; the interaction of culture with language to influence the encoding and decoding of information; and the effect of cultural variables upon peoples' ability to describe, predict and explain the message of others

Prerequisites: COM (SPE) 10

COM 314: Social Media Analytics

Students will learn how to collect, analyze, and derive insights from social media information. Students will also learn how to craft effective technical reports based on information generated from social media analysis. By examining and reporting effective strategies for creating social media content, students will become better at producing their own social media content, which is an increasingly important ability in a wide range of fields. Students will develop skills in using both freely available and industry-standard digital social media analytics tools.

Prerequisites: ENG 23 or ENG 24 or ENG 25 & sophomore status or permission of the instructor.

COM 319CT: Integrated Marketing Communication Concepts and Practices

This course will introduce students to the principles and applications of integrated marketing communication (IMC), a growing subdivision of traditional public relations that incorporates marketing and advertising. Students will learn the elements of IMC, the benefits of this approach, and how to incorporate IMC principles into modern professional PR practice. Through analyses of existing IMC campaigns as well as the execution of individual and group IMC projects, students will recognize the benefits of IMC, develop IMC deliverables, and gain an appreciation of IMC theory.

Prerequisites: COM (SPE) 10

COM 320: Group Performance of Literature

This course focuses on teaching students how to develop, rehearse, and present a group performance of literature. Students will learn how to choose a production concept and communicate that production concept to the audience through specific performance choices such as scripting, staging, and design elements (set, costume, lighting, etc.). Emphasis will be on group interaction and orchestration, experimental theatre techniques, and hands-on-ensemble exercise. The work of the course will culminate in a final public performance.

Prerequisites: COM 120 or COM 201

COM 325: The Communication Dynamics of Group Interaction

The course will focus on the dynamics of communication interaction related to task-oriented, decision-making groups (e.g., commissions, boards, councils, task-forces, committees, project and volunteer groups). Students will be required to integrate an examination of current research and theory with case-studies and analysis of ongoing task-oriented groups.

Prerequisites: COM (SPE) 10

COM 327CTWI: Rhetorical Theory and Criticism

This course will present an overview of the history of rhetorical theory and methods of rhetorical criticism. It is based on an appreciation of the beauty and power of language, and an understanding that language and other symbols are the forces that create our socio-cultural reality. As speaker or audience member, we use language to shape our world and make sense of our experience within it. Through rhetorical theory, we learn how symbols function, and we evaluate symbolic acts and artifacts using rhetorical criticism. Different critical approaches help students to discover new possibilities for insight and action.

Prerequisites: COM (SPE) 10

COM 332: American Speakers and Their Impact

A comprehensive study of the development of American rhetorical theory and criticism, and the public speakers who have reflected these trends. Course will include analysis of the speakers, issues, and the times.

Prerequisites: COM (SPE) 10

COM 335: The Rhetoric of Literature

Cooperative investigation of the relationships between literature and rhetoric. Selected works of major literary figures will be examined with reference to their persuasive power and their ability to produce attitude change.

Prerequisites: ENG23, ENG24 or ENG25

COM 336: On-Campus Public Relations Workshop

Students in this course will be assigned to selected on-campus departments, events and offices as staff public relations practitioners. They will bear the responsibility, under the guidance of the instructor, of developing a comprehensive public relations and/or promotional program for the activity to which they are assigned. This can include, but is not limited to, news releases, advertising, news media contact, promotional publications, programs and posters. Students may work with ACE, the Departments of Music, Sport Management, Communication Studies and Theatre, Greek organizations, and other clients across campus.

Prerequisites: COM (SPE) 170 or with the permission of the instructor.

COM 340CTWI: Communication Research and Writing

This course introduces students to the methodologies and methodological considerations associated with the field of communication studies, including qualitative, quantitative, and mixed-methods approaches. Students will learn key terms, ethical considerations, and the principles of data collection and analysis while applying research principles in class projects.

Prerequisites: COM (SPE) 10 & 101

COM 341: Voices of American Women

A study of woman's role as speaker in America's development, past and present. Course will include in-depth analysis of specific issues, women and speeches in light of the principles of rhetorical criticism.

Prerequisites: COM (SPE) 10

COM 345: Relational Communication

This course explores communication in a variety of personal relationship types across the lifespan. Communication is situated within specific relationships, including, but not limited to dating, friendship, marriage, parent-child and other family relationships. Those relationships are situated within larger cultural contexts. Building upon core concepts in interpersonal communication, this course explores theory and research on communication in various types of close relationships and how cultural variables affect those different types of relationships.

Prerequisites: COM (SPE) 130 or with the permission of the instructor.

COM 350CT: Leadership: A Communication Perspective

This course serves as an introduction to the study and practice of leadership from a communication perspective. To this end it explores communication variables involved when leaders attempt to influence members to achieve a goal. Particular focus will be on the relationship between communicating and leading. Topics include power, credibility, motivation, research on leadership traits, styles and situations, global leadership, ethics, and current models of leadership such as transformational, charismatic, and functional approaches.

Prerequisites: COM (SPE) 10

COM 360: The Digital Self

This course focuses on the ways in which people create, maintain, perform, and broadcast the self with and through digital media technologies. It examines media such as: social networking platforms, video games, augmented reality software, and wearables.

Prerequisites: COM 355 (formerly COM 245)

COM 361: Introduction to Health Communication

This course is designed to introduce students to the field of health communication. It will explore health-related communication as it applies to the dissemination, interpretation, and impact of health-related messages. Students will learn about communication between health-providers and patients/clients, health education initiatives and campaigns, as well as communication dynamics in health organizations. Students will gain both knowledge and experience in the use of communication to promote individual and public health.

Prerequisites: COM (SPE) 10

COM 370: Selected Topics in Communication Studies

This course will encompass extensive readings, critical evaluations and papers on selected research and theory relating to issues in Communication Studies. Selection of topics will vary depending upon the needs of eligible students. This course may be repeated for credit providing that the same topic is not repeated.

Prerequisites: COM (SPE) 10

COM 371: Selected Topics In Speech: Semantics

Selected Topics In Speech: Semantics.

Prerequisites: COM (SPE) 10

COM 375: Communication Training and Development

This course will focus on the logistics of creating, developing, and implementing communication based training programs. Specifically included will be areas of assessing training needs, developing training need surveys and related assessments, creating and developing training materials, techniques of presentation, program evaluation, and communication consultation strategies and techniques.

Prerequisites: COM (SPE) 10

COM 379: Independent Study in Speech Communication

Before registering, the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated.

Prerequisites: COM (SPE) 10

COM 380: Senior Capstone Experience

This course is designed as the capstone course for Communication Studies majors, aimed at providing students with the opportunity to integrate the knowledge and skills they have acquired within the major. It will also provide experiences for students to exhibit competent communication skills learned during their program of study in order to prepare for a career in communication.

Prerequisites: Take COM (SPE) 10, 101, 240 & 340

COM 387: Family Communication

Family Communication is designed to introduce students to communication in the family setting. The overall goal is to help you understand how, through communication, we develop, maintain, enhance or disturb family relationships. The course will examine the role of communication as it relates to family identities, family roles, relational maintenance, intimacy, conflict, decision-making, family stress and well-being. Students will learn verbal and nonverbal skills that can promote healthy family communication. This course will potentially be an important beginning in assessing the communication skills that are inherent in your own family.

Prerequisites: COM (SPE) 130 or with the permission of the instructor.

COM 390: Communication Studies Internship

Supervised professional field experience related to public relations, publicity, and/or organizational communication. Students will select from two internship options: a) public relations or b) organizational communication. Internship tasks and responsibilities will vary with participating organizations. This internship will be available to selected students majoring/minoring in Speech Communication to be taken for a maximum of 6 credits in the major and 3 credits in the minor.

Prerequisites: COM (SPE) 10

COM 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

Prerequisites: COM (SPE) 10

Computer Science**CSC 5: Visualization for the Masses**

Have you ever wondered how computers are used to make data look interesting and more easily understood? That is a process carried out by computers that can make any data more understandable and approachable. The interesting thing about this process is that it can be done by virtually anyone – even people who have little experience with computers. This is a course that teaches the student about the different kinds of visualizations and also how to create them. Reading charts, graphs, and more complex visualizations is an important skill to have while knowing how to make these is also an important skill.

CSC 10: Computer Applications

This course provides an introduction to microcomputers and their applications, including word processing, spreadsheets, databases, graphics, and the integration of software in a page layout package. Using either Macintosh or IBM-compatible microcomputers, the students will gain "hands-on" experience with current equipment and software. The type of microcomputer to be used in each section will be designated in each semester's master schedule. To be of greatest benefit, this course should be taken early in the student's college program.

CSC 20CPVL: Computer Graphics

This course introduces students to designing visual compositions using image-manipulation and illustration-capture software. Topics include image editing, typography and layout as well as creative design theory and critical analysis.

CSC 111: Computer Forensics

This course is an introduction to the basic concepts of computer forensics. It will teach the student how to identify, preserve, recover, analyze and document data on a computer or network allegedly used to commit a crime. Topics include computer architecture, operating systems, encryption/decryption, preserve and document evidence, and analyzing computers and networks for evidence.

CSC 112: Visual Basic Programming

This course is designed to help the student develop sound programming methodology using the Visual BASIC language and to gain an understanding of the key concepts in computer science. Topics include the Visual Basic development environment, GUI interfaces, the software development cycle, modular design, data flow, execution flow, abstraction, generalization, management of complexity, variables, subroutines, one and two dimensional arrays, and processing string data. An algorithmic approach and top-down design are presented in the solution of problems.

CSC 120CPVL: Introduction to Creative Graphical Coding

This course is for students who want to go beyond using prepackaged software tool for editing graphical images. Students will create interactive images, videos, and multimedia compositions using a programming language specifically designed for these applications. Project include program-driven display of the basic shapes and imported images, display properties such as texture and shading, display-time image composition, generative art, interaction with user gestures, three-dimensional graphics, animation, video, and additional topics as time allows. The programming environment includes extensive language and library support for these activities, while simplifying the steps in introductory programming. There will be solo and/or team projects.

CSC 122CPVL: Web Site Design

This is an elective course for CSC undergraduates and general elective course for other university students. This course introduces the fundamentals of planning, design, organization, implementation, and management of a Web site. Students will be taught the basic concepts of Web page creation. The Hypertext Markup Language (HTML), a markup language used to describe the content and format of documents on the Web will be taught. Cascading style sheets (CSS), a presentation markup language will be introduced. Appropriate Web authoring application software will be used for Web site management.

CSC 123CP: Introduction to Scientific Programming

This course is designed to help the student develop sound programming methodology using the modern programming languages prevalent in the scientific communities as well as scientifically oriented specialized tools and libraries; and to gain an understanding of the key concepts in computer science and to develop skills that can be applied to programming in a scientific environment. Topics include basic concepts of computer languages relating to data flow and execution flow – control constructs, functions, variables, and data structures. Additional topics will include applications to scientific problems and specialized extensions to programming language via packages. Programming assignments will be designed so that each student will write code pertinent to her scientific specialty.

CSC 125CT: Discrete Math for Computing I

This course is designed to ensure that students reach the level of mathematical maturity necessary for the study of computer science and information technology. This course encompasses a study of predicate calculus, sets, functions, relations, counting techniques, discrete probability, and graph theory.

Prerequisites: MAT 105 or higher or Permission of the Instructor

CSC 130: Information Technology Fundamentals

This course is an introduction to the basic concepts of Information technology (IT). This course is required for IT majors and is intended to provide for most of these students a first introduction to IT as an academic discipline. Topics include: hardware and software basics, the historical evolution of computer systems, computer networks, systems design, the IT profession and its responsibilities, and legal and ethical issues raised by IT.

CSC 135: Computer Science I

An introduction to computer components; algorithmic design and the constructs of structured programming; elementary data types and data operations; programming in a high level language; one-and-two dimensional arrays; subroutines and top-down, modular, step-wise programming; computer solution of several numerical and non-numerical problems.

CSC 136CP: Computer Science II

This course extends the topics developed in CSC 135. Also covered are: concepts of data abstraction, encapsulation, recursion; search and sort methods; and simple data structures. Prerequisites: Completion of CSC 135 with a grade of C or higher.

CSC 220CPVL: Object-Oriented Multimedia Programming

This course introduces students to object-oriented programming in the context of implementing multimedia systems. Object-oriented programming topics include classes, information hiding and encapsulation, delegation, several types of inheritance, mechanisms for code reuse, and design for flexible refactoring. Students will use object-oriented programming to manipulate graphical images, video streams, audio signals, physical devices containing electronic sensors and effectors, and a partial combination of these media. There will also be solo and team programming projects.

Prerequisites: CSC 120 or CSC 123 or CSC 136, any with a grade of "C" or better.

CSC 223: Advanced Scientific Programming

This course takes students deeper into the theory of scientific programming, building on a foundation of sound programming methodology and an understanding of the modern programming languages prevalent in scientific communities and of the specialized tools and libraries. Thorough grounding in computer science principles will enable the student to gain knowledge and skill to best leverage these tools for scientific study and research. Topics include basic concepts of problem analysis and program design both from a procedural and structural standpoint -algorithm development, algorithm analysis, data structures, data storage, data analysis and data visualization. Additional topics will include applications to scientific problems.

Prerequisites: CSC 123 OR CSC 135. One of either course, passed with a grade of "C" or better.

CSC 225: Discrete Math for Computing II

This course is the second in a two-course discrete mathematics sequence designed to ensure that computer science students reach the level of mathematical maturity necessary for the study of computer science. This course encompasses a study of methods of formal proof, induction, counting, graphs, recursion, algorithm specification and algorithm analysis.

Prerequisites: CSC 125 and CSC 135

CSC 235: Computer Organization and Assembly Language

This course is designed to provide an understanding of the organization of and internal execution of a program by a modern digital computer.

Prerequisites: CSC 125 and CSC 136

CSC 237: Data Structures

Topics include basic concepts of data; linear lists, strings, arrays and orthogonal lists; representation of trees and graphs; storage systems, structures, allocation and collections, multilinked structures; symbol tables and searching techniques; formal specification of data structures, data structures in programming languages and generalized data management systems.

Prerequisites: CSC 125 and C or better in CSC 136.

CSC 241CP: Advanced Visual Basic Programming

This course is a study of some of the advanced features of Visual Basic. This study would include window design, database access and Internet programming. Under window design such topics as menus, list boxes, common dialog boxes, and multiple form interfaces will be studied. Under database access such topics as creating/opening a database and reading/writing with a database will be studied. Internet topics will include browsing, internet transfer, and winsock control.

Prerequisites: CSC112 or CSC135

CSC 242: Web Programming

This course is an introduction to the basic concepts of client/server scripting on the Web. Topics will include: Web architecture, standards, and infrastructure, client/server architecture on the Web, markup languages and style sheets, client-side data validation and form processing, client-side cookie usage, server-side data processing, information storage, and backend databases, and issues involved with Web interface development.

Prerequisites: CSC 135 with a "C" or better OR CSC 120 with a "C" or better

CSC 243: Java Programming

This course introduces the student to event-driven, object-oriented programming using the Java programming language. The student is introduced to the design, creation, use, and communication that take place among objects. The student will learn how to develop and use graphical user interfaces to represent objects and their environments, and handle exceptions when they occur.

Prerequisites: C or better in CSC 136.

CSC 253: Information Technology Systems

Information Technology comprises the part of computing that provides solutions to problems using computer-based technologies. Representing the fundamental vehicle through which computing solutions are provided, the technologies that make up these solutions are continually evolving. The course introduces the student to information technology systems, specifically the basic concepts used to define, build, and maintain information technology systems. Students will be introduced to the major technologies that are used in information technology systems, how these technologies are assembled into operating systems architecture, and the principles of systems and information management.

Prerequisites: CSC125 and (CSC 136 or CSC 220 or CSC 223)

CSC 280: Cooperative Internship in Computer Science I

Supervised industrial experience at the level of apprentice programmer or information technologist. Available only to CS majors.

CSC 310: Procedure Oriented Programming Languages

Topics covered include basic concepts and special facilities in higher level programming languages, including scope of declarations, storage allocations, data structure variety, binding time of constituents, and control organization with emphasis on programming in several representative languages.

Prerequisites: CSC 237 AND completion of 18 credits of CSC courses numbered 125 or higher AND a GPA in the CSC courses of 2.25.

CSC 311: Computer Networks

Computer Networks have become ubiquitous in our society. In depth understanding of their workings is an important part of the foundation of knowledge not only for a computer science student who intends to incorporate networking in their scholastic or professional endeavors, but for anyone working in the discipline, as networking concepts are applicable in many areas inside and outside the discipline. The students will learn the terminology and implementation of computer networks, and the physical components of networks, including cabling and devices, as well as how these components work. Several application layer protocols will also be studied, including HTTP, E-mail, DNS and DHCP.

Prerequisites: CSC 237 or CSC 253 AND completion of 18 credits of CSC courses numbered 125 or higher AND a GPA in the CSC courses of 2.25.

CSC 315: Computer & Natural Lang

CSC 320: Game Development for Computer Scientists

This course introduces the student to the concepts, process, and algorithms of game design. Topics in this course include an introduction to game design process, game design problems, game algorithms, algorithm implementation and application, data and data structures in game design, and artificial intelligence in game design. The student will create at least two original games using the techniques presented in the course.

Prerequisites: CSC 220 or CSC 243 AND completion of 18 credits of CSC courses numbered 125 or higher AND a GPA in the CSC courses of 2.25.

CSC 325: Introduction to Computer Science Theory

This course covers computer science skills required to understand, model, and devise efficient solutions for problems. These skills include techniques for modeling problems, determining inherent complexity of problems, devising appropriate solutions for problems, and analyzing the efficiency of problem solutions. Topics include automata theory, computability theory, computational complexity, and algorithm design strategies.

Prerequisites: CSC 225 and CSC 237 and completion of 18 credits of CSC courses numbered 125 or higher and a GPA in all CSC courses of at least 2.25

CSC 328: Network Programming

This course provides coverage of the basics of network programming methodology and implementation with inclusion of relevant aspects of security. Topics that will be covered are network protocols and interprocess communication (IPC) facilities, including pipes and sockets. Applications using both UDP and TCP will be implemented and analyzed. Both the client and server sides of network applications will be designed and implemented. Application layer security requirements will also be discussed.

Prerequisites: CSC 237 or 253

CSC 330: Introduction to Mobile Architecture and Systems

This course introduces students to the concepts of technology mobility and the role that new and smaller computing devices play in new systems development. The student will be introduced to the field of mobile systems architecture and apply this knowledge to the creation of architectures using both mobile and traditional computing resources.

Following this the student will learn about development using today's popular mobile devices and develop their own architecture and system based on mobile devices.

Prerequisites: CSC 237 or CSC 253 and CSC 243

CSC 341: Introduction to Information Security

This course is an introduction to the basic concepts of information security. Topics include security threats and attacks, viruses and other malicious programs, risk management, security protection, basic cryptography, and trusted information systems.

Prerequisites: CSC 237 or CSC 253 AND completion of 18 credits of CSC courses numbered 125 or higher AND a GPA in the CSC courses of 2.25.

CSC 342: Web Technologies

This course is an introduction to the basic concepts of technologies that are used on the Web. Topics include: Web basics, standards, and infrastructure, client/server architecture on the Web, page presentation using markup languages and style sheets, the Document Object Model (DOM), client-side programming and server-side programming, Web data representation, and Web services.

Prerequisites: CSC 242 with a grade of "C" or better and Junior standing

CSC 343: Operating Systems

This course is an introduction to the basic software components of an operating system. Topics include process management, storage management, processor management, auxiliary storage management, evaluation of an operating system's performance, networks, operating system security, and case studies of particular operating systems.

Prerequisites: CSC 237 or CSC 253 AND completion of 18 credits of CSC courses numbered 125 or higher AND a GPA in the CSC courses of 2.25.

CSC 351: Digital Forensics for Computer Scientists

Digital Forensics entails the collection, organization, explanation, and presentation of evidence assembled in the course of investigations initiated by legal and law enforcement personnel to substantiate or refute legal proceedings of a criminal or non-criminal nature. Because computer scientists play a key role in defining and using technologies for digital forensics, their involvement in such activities is extremely critical. The purpose of this course is to engage the student into digital forensics activities from three viewpoints. The first viewpoint involves looking at digital forensics from the standpoint of the activities and issues faced by the digital forensics expert. The second viewpoint is to consider the nature of the contributions that computer scientists can make to the field of digital forensics through the creation and advancement of algorithms to aid in forensics analytical tasks. Finally the third viewpoint will be to examine digital forensics from the viewpoint of the legal personnel involved and to consider their requirements for evidence and explanation.

Prerequisites: CSC 341 AND completion of 18 credits of CSC courses numbered 125 or higher AND a GPA in the CSC courses of 2.25.

CSC 352: UNIX: Systems Programming and Administration

This course deals with the study of the UNIX operating system, particularly systems programming and administration. Under the former, such topics as UNIX commands, filters, shell scripts, system security, user accounts, system backup and rebooting, and associated utilities are studied. In addition, software procurement, using the WWW, and installation will be illustrated. Under the latter, such topics as file primitives and directory access, system utilities, processes, signals and signal handling, inter-process communication, semaphores, file and record-locking, sockets, and terminal manipulation are studied. Meaningful applications which illustrate the topics will be examined.

Prerequisites: CSC 120 or CSC 123 or CSC 135

CSC 354WI: Software Engineering I

This is the first course in a two semester capstone sequence. This course introduces the fundamental principles of software engineering. Coverage will include the System Development Lifecycle (SDLC) methodologies, capturing requirements, design modeling, project management, risk management, and quality assurance. Students will learn techniques for requirements elicitation, prioritization, validation, and specification. They will be introduced to various design models that are used to capture requirements.

Prerequisites: 24 credits of CSC courses numbered 125 or higher and a GPA in the CSC courses of 2.25

CSC 355WI: Software Engineering II

This is the second course in a two semester capstone sequence. This course presents the advanced principles of software engineering. Coverage will include the professional responsibilities of the software engineer, implementation, testing, configuration management, and the project management. Students will be introduced to different development and testing approaches.

Prerequisites: CSC 354 with a grade of "C" or better and a GPA of 2.25 in all CSC courses.

CSC 356: Introduction to Database Management Systems

Database technology is fundamental to all information technology. Seldom is there a system that has been developed today without some kind of database component. This course provides the students with a fundamental understanding of database concepts, how to create, modify, and access databases, the different types of databases, and an introduction to advanced database topics.

Prerequisites: CSC 237 or CSC 253 and completion of 18 credits of CSC courses numbered 125 or higher and a GPA in all CSC courses of at least 2.25

CSC 361: Finite Automata & Formal Languages

An introduction to finite state automata and regular expressions; the Myhill Nerode theorem and the minimization of finite automata; context free grammars, the Chomsky normal form; the Greibach normal form, and push-down automata; properties of context free languages; Turing machines; computability and the halting problem, the Chomsky hierarchy; deterministic context free languages and LR(k) grammars.

Prerequisites: CSC 310 AND completion of 18 credits of CSC courses numbered 125 or higher AND a GPA in the CSC courses of 2.25.

CSC 363: Interdisciplinary Software Rapid Prototyping

This course combines students from computer science and information technology programs with students taking a course offered by another academic department into interdisciplinary teams that solve a problem or create a prototype product within the domain of that application discipline or disciplines. Student teams analyze problems or opportunities in the disciplinary application domain. They use rapid prototyping techniques that combine off-the-shelf software and custom software to create a prototype software system, and they present or exhibit this system to an audience interested in the domain.

Prerequisites: Completion of 24 CSC credits, numbered 125 and higher and a GPA in the CSC courses of 2.25 in the CSC courses.

CSC 372: Independent Study &/or Project In Cis

CSC 380: Cooperative Internship In Computer Science II

Continuing supervised industrial experience in computer programming and related areas. Available only to CS majors. In this internship the student must function more independently and engage in projects of greater complexity than those of CSC 280.

CSC 385WI: Computer Science Seminar

This course is used to satisfy the senior seminar requirement for CSC majors. The course is designed to integrate the student's work in the CSC major and to provide opportunity for the student to engage in a significant project to structure and apply CSC content and procedures.

Prerequisites: 36 credits of CSC courses numbered 125 or higher and a GPA in the CSC courses of 2.25

CSC 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

CSC 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

CSC 402: Data Structures II

This course is the second course in data structures. It is designed to present the computer science student with further depth of knowledge in a continuation of CSC 237, Data Structures. The course is a study in advanced topics of data structures focusing on their structure, efficiency and application. Data structures introduced or expanded include graphs, sets and trees.

Prerequisites: CSC 237

CSC 411: Advanced Networking

This course deals with the theory, implementation and administration of networks. It is also concerned with the various layers of Internet architecture stack, with concentration on layers 3 and 4. The primary protocols for these layers, Transmission Control Protocol (TCP) and Internet Protocol (IP), will be studied in detail. Network addressing and related protocols will also be covered.

Prerequisites: CSC 311 or unconditional admission to the Graduate program.

CSC 415: Design and Analysis of Algorithms I

This course examines the designing techniques and analysis tests for algorithms. Contents include divide and conquer technique, greedy algorithms, dynamic programming, basic search and traversal techniques, and backtracking.

Prerequisites: CSC225 (formerly 126) and CSC 237 or unconditional admission to the Graduate program in CSC or permission of instructor.

CSC 420: Numerical Analysis

CSC 421: Web-Based Software Design and Development

This course introduces the students to web-based software design. Using object-oriented techniques, the students will learn how to develop mainly on the client side of event-based web applications. Projects will build off of rudimentary knowledge of event-based design. Those foundations will be expanded upon to create web-based software, including software that communicates over the Internet, and to add multimedia enhancements, including audio, video, and animation. The completion of projects using these features is an integral part of the course.

Prerequisites: CSC 237 or CSC 253 & CSC 243

CSC 422: Object Oriented Programming I

This course presents the main concepts and components involved in object-oriented development and technology. It presents a comprehensive methodology for program development. The course deals with finding an object-oriented approach to analysis, design, and programming.

Prerequisites: CSC225 (formerly 126) and CSC 237 or unconditional admission to the Graduate program in CSC or permission of instructor.

CSC 423: Game Development for Computer Scientists II

This course is a continuation of the subject matter of CSC 320, Games for Computer Scientists. In CSC 320 we cover the basics of game development from concept to storyboard to low-tech prototype to implementation using a game engine. In this course we will continue our study of game engines and look at some of the more advanced features of this game engine. We will be examining animation techniques, 3D modeling, rigging, gravity, and artificial intelligence. The student will implement at least two original games using these aspects of game development.

Prerequisites: CSC 320

CSC 425: Compiler Design I

Content of this course includes multi-phase translation, lexical analysis, parsing, LL, LR, and LALR parser constructors, error recovery, symbol table organization, static semantic analysis, and the interpretation of formal semantics.

Prerequisites: CSC 310 or Permission of Instructor

CSC 441: Advanced Information Security

This course is an in-depth study of information security. Topics include security threats and attacks, encryption algorithms, cryptosystems, attacks on cryptosystems, firewalls, VPNs, IDPSs, and network security. The concepts of the above will be explored and discussed.

Prerequisites: Take CSC 341 or unconditional acceptance into the graduate program.

CSC 445: Introduction to Intelligent Robotics

This course deals with the theory and implementation of intelligent robotics and autonomous agents. The history, fundamental principles, elements, and algorithms of intelligent robots, both in simulation and in the real world, will be examined. Fundamental issues and debates regarding design and implementation and their roots in knowledge representation and theoretical computer science will be investigated. Using the knowledge gained, students will implement actual designs.

Prerequisites: CSC 237 or 253 or permission of the instructor.

CSC 447: Artificial Intelligence I

An overview of artificial intelligence is presented, including its history, concepts and techniques. Also covered is an introduction to theorem proving and planning (using STRIPS style operators).

Prerequisites: CSC 237 or 253 or permission of the instructor.

CSC 456: Database Management Systems I

Database systems are an integral component of almost every information technology system. This course introduces essential database concepts, data models, data base design principles, data normalization, and query languages primarily from a relational database point of view. Various real-world problems of moderate to high complexity are discussed to design and implement database applications.

Prerequisites: CSC 356 or unconditional acceptance in the graduate program

CSC 458: Data Mining and Predictive Analytics I

Many academic and commercial endeavors apply the techniques of data mining and predictive analytics to their data sets. Students taking this course will learn methods and software tools for locating and obtaining data of interest, for preparing data for semi-automated analysis, for interacting with software tools in analyzing data for patterns, for visualizing structural and dynamic patterns in data, and for designing systems that respond to patterns in data. Data cleaning and formatting require some programming in a modern scripting language. Other course activities include learning to use off-the-shelf software tools to accomplish the tasks of data analysis.

Prerequisites: Junior Status and a grade of "C" or better in CSC 120, 123, or 135 and a grade of "C" or better in MAT140, 150, 301 or POL/PSY/SOC 200, or SOC 201 or BUS 120; or unconditional acceptance into the graduate program.

CSC 459: Introduction to Big Data

This course explores key data management and analysis techniques, which deal with massive datasets to enable real-time decision-making in distributed environments, business intelligence in the Web, and scientific discovery in a large scale. In particular, map-reduce parallel computing paradigms and associated technologies, such as distributed file systems, noSQL databases, and basic machine learning methods, will be explored.

CSC 464: Human Computer Interaction

This course is designed to provide an understanding of the principles of user interface design for software, and also to gain practical experience designing interfaces for existing software applications.

CSC 472: Independent Study and/or Projects in Computer Science

This course involves individual independent study in some area of computer science under the direction of a CSC group staff member. This study can be made in any of the areas of analog and hybrid computers, artificial intelligence, automate theory, business information systems, computer-aided design, computer-assisted instructions, computer graphics, computer mechanisms and devices, computer systems, computer telecommunication, computer typesetting, information retrieval, linguistic processing, mechanical languages, numerical analysis, programming theory, or switching systems and logical design, and others. A student may register for this course more than once up to a maximum of six hours of credit.

CSC 480: Selected Topics in Computer Science

An in-depth study of a specialized area of computer science. Content will vary from semester to semester. May be repeated with a different topic.

Crafts**CFT 21VL: Ceramics I for Non Majors**

This course is a basic introduction to the clay medium: fire, earth and water for Non Majors. This course is a General Education elective to permit students with little or no art background to enrich their education through the study of ceramics without having to compete with students planning to become professional artists or craft persons. The manipulative techniques of pinch, coil, slab and wheel are emphasized. Activities reflect an awareness of traditional as well as contemporary approaches to ceramics.

CFT 31VL: Weaving for Non Majors

Introduction to the technique of weaving for non-majors. This course is a General Education elective to permit students with little or no art background to enrich their education through the study of weaving without having to compete with students planning to become professional artists or craft persons. Introductory and basic weaving techniques are developed through the use of the four-harness loom, as well as simple weaving devices.

CFT 41VL: Textiles and Material Studies for Non Majors

Introduction to fabric processes design for non-majors. This course is a General Education elective to permit students with little or no art background to enrich their education through the study of textiles without having to compete with students planning to become professional artists or craft persons. Basic structures of fabrics include single- and multi-element constructions of various processes of surface embellishment and dyeing. Ancient and modern techniques are studied. A minimum of 3 hours of work outside of class is required per week.

CFT 51VL: Wood Design for Non Majors

Fundamentals of woodworking techniques and furniture design are studied, including fabrication, simple joinery and finishing for non-majors. This course is a General Education elective to permit students with little or no art background to enrich their education through the study of woodwork without having to compete with students planning to become professional artists or craft persons. Use and care of machine and hand woodworking tools are included.

CFT 61VL: Fine Metals for Non Majors

Experiences are centered on the creation of jewelry and metal crafts for Non Majors. This course is a General Education elective to permit students with little or no art background to enrich their education through the study of jewelry and metal crafts without having to compete with students planning to become professional artists or craft persons. Emphasis on basic fundamental techniques leads to an experimental use of metals, semi-precious stones, and other materials appropriate to the construction of jewelry, hollowware, and metal sculpture.

CFT 68VL: Enameling for Non Majors

This course will introduce the fundamental skills and techniques of vitreous enamel to Non Majors. This course is a General Education elective to permit students with little or no art background to enrich their education through the study of enameling without having to compete with students planning to become professional artists or craft persons. In addition to the basic and traditional techniques, the student will explore an experimental approach with a contemporary direction emphasizing aesthetics, conceptual, and formal concerns.

CFT 110CDVL: Craft Design

This course is an initial exploration of design concepts and techniques related to basic craft processes. Emphasis is placed on individual production in a variety of materials. Students are required to produce craft objects in a minimum of four craft areas. A minimum of 3 hours of work outside of class is required per week.

CFT 115: Drawing For Designers

This course is to aid the student in developing and presenting ideas in the design and craft areas. Drawing with and without instruments, emphasis will be placed upon perspectives and rendering techniques.

CFT 121VL: Ceramics I

This course is a basic introduction to the clay medium; fire, earth, and water. The manipulative techniques of pinch, coil, slab, and wheel will be emphasized. Activities will reflect an awareness of traditional as well as contemporary approaches to ceramics. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: All students in College of Visual & Performing Arts except majors in Theatre, Music, Music Education & Com Studies (Speech) majors; or permission of the instructor

CFT 131VL: Weaving I

Basic weaving techniques are developed through the use of the four-harness loom, as well as simple weaving devices. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: All students in College of Visual & Performing Arts except majors in Theatre, Music, Music Education & Com Studies (Speech) majors; or permission of the instructor

CFT 141VL: Textiles and Material Studies I

Basic structures of non-loom fabrics include major single- and multi-element constructions and various processes of surface embellishment. Ancient and modern techniques are studied. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: All students in College of Visual & Performing Arts except majors in Theatre, Music, Music Education & Com Studies (Speech) majors; or permission of the instructor

CFT 151VL: Wood Design I

Fundamentals of woodworking techniques and furniture design are studied, including fabrication, simple joinery and finishing. Use and care of machine and hand woodworking tools are included. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: All students in College of Visual & Performing Arts except majors in Theatre, Music, Music Education & Com Studies (Speech) majors; or permission of the instructor

CFT 161VL: Fine Metals I

Experiences are centered around the creation of jewelry and metal crafts. Emphasis on fundamental techniques leads to an experimental use of metals, semi-precious stones, and other materials appropriate to the construction of jewelry, hollow ware and metal sculpture. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: All students in College of Visual & Performing Arts except majors in Theatre, Music, Music Education & Com Studies (Speech) majors; or permission of the instructor

CFT 210: Applied Design for Crafts

This course explores advanced three-dimensional design concepts as they apply to crafts. Emphasis is placed on the complex systems of design as they relate to designing specific objects for functional applications. Investigation of the structural aspects of design, as well as current technological developments in materials and processes is stressed. A minimum of 3 hours of work outside of class is required per week.

Prerequisites: ART 32

CFT 221: Ceramics II

This advanced exploration of the clay medium builds on the skills acquired in Ceramics I. The relationship of technique to concept will be explored with an emphasis on craftsmanship. Both functional and non-functional clay objects will be produced. Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: All students in Art Education & Craft majors; and CFT 121 Ceramics I; or permission of the instructor

CFT 231: Weaving II

Advanced weaving includes techniques appropriate for two-, four- and multi-harness looms, stemming from basic techniques developed in Weaving I. Emphasis is placed upon individual design techniques and the development of personal approaches to weaving. Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: All students in the College of Visual & Performing Arts except Theatre, Music, Music Education, and Speech majors; and CFT 131 Weaving I; or permission of the instructor.

CFT 241: Textiles and Material Studies II

Advanced techniques and complex fabric structures are investigated and developed. The student focuses upon aesthetic concepts appropriate for fibers and fabric construction. Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: All students in College of Visual and Performing Arts except Theatre, Music, Music Education & Speech majors; and CFT 141; or permission of the instructor.

CFT 251: Wood Design II

The course offers advanced study in woodworking techniques and furniture design which include inlay, lathe turning, and various joinery techniques. Care and maintenance of machinery are included. Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: All students in the College of Visual & Performing Arts except Theatre, Music, Music Education, and Speech majors; and CFT 151 Wood Design I; or permission of the instructor

CFT 261: Fine Metals II

The creation of unique pieces of jewelry and metal objects becomes the primary emphasis of this course. Advanced techniques of construction and ornamentation will be studied. Areas to be explored by the student include enameling, hollowware, prong settings, repousse (chasing). Works of historic and contemporary significance will be studied. Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: All students in the College of Visual & Performing Arts except Theatre, Music, Music Education, and Speech majors; and CFT 161; or permission of the instructor

CFT 268VL: Enameling

This course will introduce the fundamental skills and techniques of vitreous enamel. In addition to the basic and traditional techniques, the student will explore an experimental approach with a contemporary direction emphasizing aesthetics, conceptual, and formal concerns. Finished pieces may include, but are not limited to, objects of adornment, vessels, and objects as statement. This course may be used by Fine Metal majors in place of CFT 361, CFT 362, CFT 363, CFT 364, or CFT 365. (Repeatable up to 6 semester hours.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: All students in College of Visual & Performing Arts except majors in Theatre, Music, Music Education & Com Studies (Speech) majors; or permission of the instructor

CFT 307: The Visual Journal: Drawing and Designing Abroad

This is an off-campus class that will be taught while traveling abroad. It is a hands-on course. Each student will complete a portfolio of artwork documenting his or her personal response to the travel experience. Through direct observation, students will explore their personal relationship with the destination, and construct a meaningful document of their travels. Students will have the opportunity to see firsthand the work of artists and designers from other cultures. The course will include guided gallery and museum visits. (This course is also offered under the following designations: CDE 307, FAR 307, CFT 307.) [6 ch 3 sh]

CFT 321CT: Ceramics Studio I

Further advanced study of the ceramic medium is undertaken with an emphasis on concentration in areas of the student's choice. Coursework includes research and experimentation which culminate in the resolution of both technical and conceptual concerns. Technical and conceptual concerns will be addressed in a demonstration/lecture seminar format. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: All Students in CFT or ARU Major; and CFT 221; or permission of the instructor

CFT 322: Ceramics Studio II

Further advanced study of the ceramic medium is undertaken with an emphasis on concentration in areas of the student's choice. Coursework includes research and experimentation which culminate in the resolution of both technical and conceptual concerns. Technical and conceptual concerns will be addressed in a demonstration/lecture seminar format. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 321 or permission of the instructor

CFT 323: Ceramics Studio III

Further advanced study of the ceramic medium is undertaken with an emphasis on concentration in areas of the student's choice. Coursework includes research and experimentation which culminate in the resolution of both technical and conceptual concerns. Technical and conceptual concerns will be addressed in a demonstration/lecture seminar format. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 322 or permission of instructor

CFT 324: Ceramics Studio IV

Further advanced study of the ceramic medium is undertaken with an emphasis on concentration in areas of the student's choice. Coursework includes research and experimentation which culminate in the resolution of both technical and conceptual concerns. Technical and conceptual concerns will be addressed in a demonstration/lecture seminar format. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 323 or permission of instructor

CFT 325: Ceramics Studio V

Further advanced study of the ceramic medium is undertaken with an emphasis on concentration in areas of the student's choice. Coursework includes research and experimentation which culminate in the resolution of both technical and conceptual concerns. Technical and conceptual concerns will be addressed in a demonstration/lecture seminar format. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 324 or permission of instructor

CFT 331CT: Weaving Studio I

Individual advanced studio experiences include work on standard four- and multi-harness looms as well as primitive weaving devices. The course allows the student to enlarge a vocabulary of weaving techniques and to concentrate upon areas of special interest. Conceptual, technical and critical development in weaving is emphasized within the development of a personal style. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft or Art Education majors and CFT 231; or permission of the instructor

CFT 332: Weaving Studio II

Individual advanced studio experiences include work on standard four- and multi-harness looms as well as primitive weaving devices. The course allows the student to enlarge a vocabulary of weaving techniques and to concentrate upon areas of special interest. Conceptual, technical and critical development in weaving is emphasized within the development of a personal style. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed major with CFT 331 or permission of the instructor

CFT 333: Weaving Studio III

Individual advanced studio experiences include work on standard four- and multi-harness looms as well as primitive weaving devices. The course allows the student to enlarge a vocabulary of weaving techniques and to concentrate upon areas of special interest. Conceptual, technical and critical development in weaving is emphasized within the development of a personal style. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 332 or permission of instructor

CFT 334: Weaving Studio IV

Individual advanced studio experiences include work on standard four- and multi-harness looms as well as primitive weaving devices. The course allows the student to enlarge a vocabulary of weaving techniques and to concentrate upon areas of special interest. Conceptual, technical and critical development in weaving is emphasized within the development of a personal style. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 333 or permission of instructor

CFT 335: Weaving Studio V

Individual advanced studio experiences include work on standard four- and multi-harness looms as well as primitive weaving devices. The course allows the student to enlarge a vocabulary of weaving techniques and to concentrate upon areas of special interest. Conceptual, technical and critical development in weaving is emphasized within the development of a personal style. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 334 or permission of the instructor

CFT 341CT: Textiles Studio I

Individual studio problems in non-loom fiber and fabric constructions offer the advanced student an opportunity to pursue interests in complex two- and three-dimensional forms. Production problems for the fiber artist are considered. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors CFT 141 or permission of instructor

CFT 342: Textiles Studio II

Individual studio problems in non-loom fiber and fabric constructions offer the advanced student an opportunity to pursue interests in complex two- and three-dimensional forms. Production problems for the fiber artist are considered. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 341 or permission of instructor

CFT 343: Textiles Studio III

Individual studio problems in non-loom fiber and fabric constructions offer the advanced student an opportunity to pursue interests in complex two- and three-dimensional forms. Production problems for the fiber artist are considered. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 342 or permission of instructor

CFT 344: Textiles Studio IV

Individual studio problems in non-loom fiber and fabric constructions offer the advanced student an opportunity to pursue interests in complex two- and three-dimensional forms. Production problems for the fiber artist are considered. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 343 or permission of instructor

CFT 345: Textiles Studio V

Individual studio problems in non-loom fiber and fabric constructions offer the advanced student an opportunity to pursue interests in complex two- and three-dimensional forms. Production problems for the fiber artist are considered. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 344 or permission of instructor

CFT 351CT: Furniture Studio I

Further advanced study in woodworking techniques and furniture design is provided with emphasis on concentration in areas of the student's choice. Work includes research and experimentation of advanced joinery, lathe turning and veneering. A study is made of marketing, production costs and shop maintenance. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft or Art Education majors and CFT 251; or permission of the instructor

CFT 352: Furniture Studio II

Further advanced study in woodworking techniques and furniture design is provided with emphasis on concentration in areas of the student's choice. Work includes research and experimentation of advanced joinery, lathe turning and veneering. A study is made of marketing, production costs and shop maintenance. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors and CFT 351; or permission of the instructor

CFT 353: Furniture Studio III

Further advanced study in woodworking techniques and furniture design is provided with emphasis on concentration in areas of the student's choice. Work includes research and experimentation of advanced joinery, lathe turning and veneering. A study is made of marketing, production costs and shop maintenance. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors and CFT 352; or permission of the instructor

CFT 354: Furniture Studio IV

Further advanced study in woodworking techniques and furniture design is provided with emphasis on concentration in areas of the student's choice. Work includes research and experimentation of advanced joinery, lathe turning and veneering. A study is made of marketing, production costs and shop maintenance. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: CFTmajCFT353

CFT 355: Furniture Studio V

Further advanced study in woodworking techniques and furniture design is provided with emphasis on concentration in areas of the student's choice. Work includes research and experimentation of advanced joinery, lathe turning and veneering. A study is made of marketing, production costs and shop maintenance. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft major and CFT 354; or permission of the instructor

CFT 361CT: Fine Metals Studio I

Advanced study in jewelry and metal design is undertaken with an emphasis on concentration in areas of the student's choice. Course work includes research and experimentation in advanced techniques. Conceptual, production and technical concerns are addressed. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft or Art Education majors who have taken CFT 161

CFT 362: Fine Metals Studio II

Advanced study in jewelry and metal design is undertaken with an emphasis on concentration in areas of the student's choice. Course work includes research and experimentation in advanced techniques. Conceptual, production and technical concerns are addressed. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Education majors with CFT361 or permission of the instructor

CFT 363: Fine Metals Studio III

Advanced study in jewelry and metal design is undertaken with an emphasis on concentration in areas of the student's choice. Course work includes research and experimentation in advanced techniques. Conceptual, production and technical concerns are addressed. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT362 or permission of the instructor

CFT 364: Fine Metals Studio IV

Advanced study in jewelry and metal design is undertaken with an emphasis on concentration in areas of the student's choice. Course work includes research and experimentation in advanced techniques. Conceptual, production and technical concerns are addressed. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT363 or permission of the instructor

CFT 365: Fine Metals Studio V

Advanced study in jewelry and metal design is undertaken with an emphasis on concentration in areas of the student's choice. Course work includes research and experimentation in advanced techniques. Conceptual, production and technical concerns are addressed. (Repeatable up to 15 s.h. with a 6 s.h. maximum per semester.) Students are expected to fulfill all the course requirements assigned in relationship to the number of credit hours earned. This course is repeatable up to five (5) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Craft Studios. Students will develop their personal imagery, critical and creative capabilities, and technical ability. They will also increase their knowledge of relevant processes, techniques, and their understanding of the work of contemporary and historical crafts and craft movements. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Craft majors or Art Ed majors with CFT 364 or permission of the instructor

CFT 368: Product Research and Development

This course will introduce students to the concept of marketing three-dimensional prototypes. The course will involve students in the research and development of new product lines. This course will give students the basic understanding of how inventive thinking and object-making relate to marketing and selling of production samples. While the primary material used in making the prototypes will be wood, other materials may be used depending on the product being designed and developed. This course may be used by wood majors in place of CFT 352, 353, 354, or 355 or as an elective by other majors with permission of the instructor will be necessary.

CFT 370: Selected Topics In Crafts

Students in this course will have the opportunity to explore special topics, issues, and creative practices related to crafts. Under this prefix, different topics, which provide distinctive learning experiences, will be offered periodically. The specific topic(s) offered for each semester will be listed in the schedule. Instruction will be through art studios. A minimum of 3 hours of work outside of class is required per week. Repeatable up to 12 s.h. (6 c.h., 3 s.h.)

CFT 376: Advanced Studio Technique

This course stresses individual development in the area of specialization - Ceramics, Weaving, and/or Non-Loom Fabric Structures, Wood Design, Jewellery Metal craft. The creation of unique pieces of work becomes the primary emphasis of this course. Advanced techniques will be explored. Works of historic and contemporary significance will be studied. This course provides for an intensive semester in the area of specialization requiring 6 ch per week of structured class activities with 18 additional hours of studio time per week; 90 class hours per semester; 270 studio hours per semester.

CFT 377: Independent Study: Craft Studio I**CFT 378: Independent Study: Craft Studio II****CFT 379: Independent Study: Craft Studio III****CFT 380: Independent Study: Craft Studio IV****CFT 381: Professional Practices: Entrepreneurial Studies**

This seminar includes an investigation of the nature of crafts and the influence of history on contemporary crafts. It also covers specific areas of professional concern, such as crafts economics, ethics and safety. During the semester, the students prepare their senior portfolio, compile a business proposal, deliver a teaching presentation to the class, develop a research paper, and assist in a joint student exhibition project.

CFT 392: Field Experience in Craft

This course is designed to provide the student with educational opportunities outside the normal academic program that cannot be gained through the more traditional course structure. By serving as apprentices, interns, aides, or assistants in a variety of settings ranging from public institutions to private industries, businesses, and studios, the student will be able to augment and extend his or her educational experiences to achieve specific personal professional career objectives. Variable credit 1 to 16 semester hours. Minimum of two hours field experience per week or thirty hours per semester for each academic credit hour.

CFT 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

CFT 399: Student Exhibition

This student exhibition is a requirement for graduation. All BFA-Crafts degree candidates participate in a Senior Show. Seniors who will be graduated in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduated in May or at the end of either of the two Summer Sessions register to participate in the senior shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least one piece/documentation/record within the confines of the display area being used for the exhibition (usually the Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

Criminal Justice

CRJ 10: Introduction to Criminal Justice

This is a course designed to provide the student with a broad, but basic, understanding of the criminal justice system. As the first course to be taken in the field of criminal justice, it will introduce the student to the roles of the police, prosecutor, criminal court, and treatment and correctional facilities within the system. With the completion of this course, the student will be familiar with the essentials of the criminal justice system. Prerequisite to all other courses in criminal justice.

CRJ 101: Introduction to Policing

This course examines the concepts and practices of police agencies in the United States. Police service is discussed as being an essential element in society's over-all effort to establish order. Factors that contribute to the definition of order and the means to achieve it provide the model for analyzing organizational structures for delivering police service in a diverse society. This course is of particular interest to majors in human services.

CRJ 121: Introduction to Law

This course will introduce the student to various types of law that comprise the American legal system. The course is designed to provide the student with a basic understanding of western legal theory and constitutional legal history, criminal law, tort law, contract law, environmental law, family law, antitrust & consumer law, administrative law, property law, and federal torts: civil liability law. After completion of the course the student will have a foundation on which to build upon when taking more advanced and focused legal theory and applied courses.

Prerequisites: CRJ 10

CRJ 170: Introduction to Security Management

This course examines the nature and scope of private security in modern society from historical, philosophical, and legal perspectives. It also addresses the latest trends and concerns in the security industry today. Basic principles of administration, organization, and operation of security and protection units are explored with an emphasis on the management aspect of the private security industry.

CRJ 171: Loss Prevention and Asset Protection

This course examines the theory and application of proactive measures to avoid or minimize industrial loss caused by criminal action as well as non-criminal events resulting from human error, natural disasters, and emergencies.

Prerequisites: CRJ 10

CRJ 175: Criminal Justice Organizations & Systems

This survey course will introduce students to organizational theory, examine local and state criminal justice agencies as organizations, explain the specific functions of each agency, and explore the reality of whether criminal justice operates as a system. The course will also introduce the student to the development and implementation of criminal justice policy at the local and state levels.

Prerequisites: CRJ 10

CRJ 181: Criminal Law

This course is an in-depth analysis of criminal law in the United States. It focuses on the nature and purposes of criminal law, the sources of classifications and limitations on criminal law, the elements of criminal liability, defenses to criminal liability, parties to crime and the specific crimes against persons, property and public order and morals. Attention will be given to the model penal code and the criminal law of Pennsylvania.

Prerequisites: Criminal Justice, Political Science, & Public Admin majors/minors

CRJ 182: Criminal Procedure

An extensive analysis of criminal procedure in the United States. The course will focus on decisions of the U.S. Supreme Court dealing with criminal procedure principles and doctrines. This course is designed as a follow-up course to Criminal Law.

Prerequisites: Criminal Justice, Political Science, & Public Admin majors/minors

CRJ 190: Federal Law Enforcement

This course examines the structure, authority, history, and jurisdiction of federal law enforcement, and its relationships with other state and local law enforcement agencies. The students will explore how federal law enforcement has evolved since this nation was formed and how its organizations have responded to the changing needs of the nation.

CRJ 200CD: Comparative Criminal Justice Systems

This course is structured to cover the four major criminal justice systems in the world. It offers a topical approach, comparing cross-national criminal justice systems based on substantive and procedural laws, police, corrections, and juvenile justice. In addition, the course explores genocide and the international criminal tribunals that are organized under the auspices of the United Nations.

Prerequisites: CRJ 10

CRJ 210: The Development of the Criminal Justice System

A history of the American criminal justice system from the colonial period through the twenty-first century. This course provides an overview of the origin, development, operation and impact of police, courts, law, corrections and the juvenile justice system. Major analytical perspectives on American social control are described and analyzed.

Prerequisites: CRJ 10

CRJ 215: Introduction to Crime Mapping and Analysis

This course provides an introduction to the theoretical and practical aspects of spatial analysis of crime. The foundational topics that will be covered include theories of crime and place, data and analytical techniques, detecting crime trends and hotspots, linking and forecasting crimes. In addition, the crime mapping software such as ArcGIS will be demonstrated to students throughout the course.

Prerequisites: CRJ 10 or Permission of the Instructor

CRJ 221CM: Juvenile Justice System

An introduction to the agencies and processes involved in handling juveniles who are suspected or accused of violating the law; examination of the principles upon which the juvenile justice system is based; and analysis of the differences in procedure with the adult justice system.

CRJ 232: Diversity in the Criminal Justice System

Criminal practitioners deal with diverse populations on a daily basis. The concept of diversity can be applied to a range of population characteristics. The primary characteristics explored in this course will be race, ethnicity, and gender. This course explores issues stemming from this diversity as they affect victims, offenders and professionals in the criminal justice system.

CRJ 250: Criminology

An intensive review of the major theories of criminal behavior and their applications in crime prevention and control. Examination of leading crime types and criminal behavior systems.

CRJ 270: Management of Offenders

This course is a survey of history, current practices, and offender characteristics in adult corrections. It includes a critical review of treatment and control strategies.

Prerequisites: CRJ 10

CRJ 271: Substance Abuse and Crime

This course surveys the concept of addictive substances, the relationships between substance abuse and crime, treatment modalities for the addictions, and the role of the criminal justice system in managing substance abusing offenders.

CRJ 272: Community Corrections

This course examines the structure and functions of community correctional agencies including those involved with pretrial release, probation, intermediate sanctions, and parole. Each of the areas explores current practices and their empirical bases.

Prerequisites: CRJ 270

CRJ 273: Career Criminals and Criminal Careers

This course is designed to introduce students to major psychological perspectives on crime by examining and integrating the career criminal and criminal career paradigms that link the fields of psychology and criminology. Students will learn that integrating the career criminal and criminal career paradigms provides them with a deeper and more comprehensive understanding of criminal behavior than either paradigm is capable of alone.

CRJ 274: Policy, Punishment and Society

This course provides an in-depth look into policy issues related to incarceration, with a particular emphasis on inmate experiences and how they might be shaped by societal perceptions of crime and punishment. Correctional practices will be used as a focal point of discussion for understanding the purposes and impact of incarceration on the U.S. population.

Prerequisites: CRJ 10 or Permission of the Instructor

CRJ 280: Ethics in Criminal Justice

This course is structured to explore professional ethics in the various sectors of the criminal justice system in the United States. It covers ethical theories, the history of ethics, and contemporary ethical issues in law enforcement, courts, and corrections. The course examines various perspectives on justice, fairness, discretion, professional duties, and civic responsibilities from the Greek classical period to modernity and post-modernity.

Prerequisites: CRJ 10

CRJ 281CM: Crime and Delinquency Prevention

This course examines various strategies of crime and delinquency prevention in the United States. Theoretical frameworks underlying these strategies and their effectiveness will be evaluated based on research. The role of different social and criminal Justice agencies such as the media, school, neighborhood and police in crime and delinquency prevention will be addressed. Successful prevention initiatives employed in other countries will also be examined.

CRJ 301: Investigation and Intelligence

This course is a study of the role of information and information usage in the investigation of completed or predicted crime and the compilation of data useful in the anticipation of criminal or terroristic activities - either on American soil or abroad. The effects of varying scale of agency size and functions will be examined as key variables. Prerequisites: CRJ 101 or Permission of the Instructor

CRJ 320: Evidence

This course is designed to provide students with an in-depth understanding of the rules of evidence. The focus will be on evidence from the time it is collected until it is introduced in court. The emphasis will be on the Federal Rules of Evidence, which are applied in federal court in all fifty states and are similar to each state's rules of evidence. The student will examine evidentiary topics that commonly occur in criminal proceedings, including, but not limited to: hearsay, privileges, and constitutional issues regarding the collection and exclusion of evidence.

Prerequisites: CRJ 181 & CRJ 182

CRJ 321: Contemporary Legal Issues

This course is structured to explore contemporary legal issues and their impact on the criminal justice system. The course will examine the most recent Supreme Court and Circuit Court decisions that affect the criminal justice system. Recent cases and legal issues continue to involve the 4th, 5th, and 6th Amendments to the Constitution. The issues addressed by these cases may involve contemporary issues regarding individual rights, homeland security, victims' rights, terrorism, security, hate crimes, discrimination, search and seizure, and juvenile justice.

Prerequisites: CRJ 181 & CRJ 182

CRJ 322: National Security Law

This course will expose students to the framework of domestic laws – constitutional, statutory, and judicial – that define, support, and constrain the U.S. government's pursuit of national security policy, with an emphasis on national security law post-9/11. The course will focus on the foundations of national security powers, collecting intelligence, and the role of the criminal justice system as a national security tool.

Prerequisites: CRJ 181 and CRJ 182, each with a grade of "C" or better

CRJ 362CPWI: Research Methods in Criminal Justice

An introduction to research methods employed to study the causes of crime and to evaluate attempts to ameliorate crime on both individual and systems levels. Restricted to criminal justice majors and minors.

Prerequisites: Criminal Justice majors and minors with CRJ 10 and 45 credits.

CRJ 370: Selected Topics in Criminal Justice

Extensive readings, critical evaluations and papers on selected research monographs relating to issues in Criminal Justice. Selection of topics will vary depending upon the needs of eligible students. Course may be repeated for credit.

Prerequisites: CRJ 10 or Permission of the Instructor

CRJ 373: Selected Topics in Criminal Justice

Extensive readings, critical evaluations and papers on selected research monographs relating to issues in Criminal Justice. Selection of topics will vary depending upon the needs of eligible students. Course may be repeated for credit.

Prerequisites: CRJ 10 or Permission of the Instructor

CRJ 374: Selected Topics in Criminal Justice

Extensive readings, critical evaluations and papers on selected research monographs relating to issues in Criminal Justice. Selection of topics will vary depending upon the needs of eligible students. Course may be repeated for credit.

Prerequisites: CRJ 10 or Permission of the Instructor

CRJ 375: Selected Topics in Criminal Justice

Extensive readings, critical evaluations and papers on selected research monographs relating to issues in Criminal Justice. Selection of topics will vary depending upon the needs of eligible students. Course may be repeated for credit.

Prerequisites: CRJ 10 or Permission of the Instructor

CRJ 376: Selected Topics in Criminal Justice

Extensive readings, critical evaluations and papers on selected research monographs relating to issues in Criminal Justice. Selection of topics will vary depending upon the needs of eligible students. Course may be repeated for credit.

Prerequisites: CRJ 10 or Permission of the Instructor

CRJ 377: Selected Topics in Criminal Justice

Extensive readings, critical evaluations and papers on selected research monographs relating to issues in Criminal Justice. Selection of topics will vary depending upon the needs of eligible students. Course may be repeated for credit.

Prerequisites: CRJ 10 or Permission of the Instructor

CRJ 378: Selected Topics in Criminal Justice

Extensive readings, critical evaluations and papers on selected research monographs relating to issues in Criminal Justice. Selection of topics will vary depending upon the needs of eligible students. Course may be repeated for credit.

Prerequisites: CRJ 10 or Permission of the Instructor

CRJ 379: Independent Study

The student must confer, and reach agreement, with the faculty member who will guide the independent study. The student and the faculty member must agree upon a topic, course content, evaluation procedures, reading list, and amount of credit prior to registration for the course. This material (course content, evaluation procedures, reading list, etc.) must be filed with, and receive the approval of, the faculty of the discipline involved and of the departmental chairperson.

CRJ 380CTWI: Senior Seminar in Criminal Justice

An interdisciplinary seminar devoted to the analysis of selected contemporary issues in criminal justice and to the integration of the student's previous studies and experiences.

Prerequisites: Criminal Justice majors and minors with CRJ 10 and 75 credits.

CRJ 390: Internship in Criminal Justice I

Placement in a federal, state, local, or private criminal justice agency. Students will gain firsthand, practical experience in the operation of law enforcement, courts, corrections, juvenile justice, or private security agencies.

Prerequisites: a minimum of 90 earned credits and a 2.8 cumulative GPA. Grading basis is Pass/Fail.

CRJ 392: Field Work in Criminal Justice II

Placement in a federal, state, local, or private criminal justice agency. Students will gain firsthand, practical experience in the operation of law enforcement, courts, corrections, juvenile justice, or private security agencies.

CRJ 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

CRJ 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

CRJ 410: Seminar In Criminal Justice

This course is a survey of the field of criminal justice with emphasis on criminal justice theory, classic studies of police, courts, and corrections, and contemporary issues. The course provides an analysis of the evolution of criminal justice institutions and systems and review of diversity and ethics issues in criminal justice.

CRJ 420: Seminar In Criminology

This course is a survey of the field of criminology with emphasis on classic studies of crime and criminals. Theories of crime derived from philosophy, psychology, sociology, biology, economics, and other disciplines are reviewed. The impact of race, gender, and social class on crime and victimization are examined.

CRJ 430: Legal Issues in Criminal Justice

This graduate course is an overview of selected contemporary legal issues related to criminal law, criminal procedure, corrections, juvenile justice, civil rights and liability, and administrative law. Students will review recent Supreme Court and other related decisions that have had an impact on these areas of the law to gain a more comprehensive understanding of the complexities of such issues as criminal control, civil liability, and homeland security.

CRJ 440: Criminal Justice Evaluation Research

This course examines methods of evaluating criminal justice policies, practices, and programs, including assessment and both process and impact evaluation. Students learn how to conduct evaluations as well as interpret evaluation studies conducted by others. The role of evaluation research in criminal justice planning and decision making is discussed.

Economics

ECO 10: Introduction to Economics

Introduction to Economics seeks to familiarize undergraduates with the fundamentals of economics – the workings of market economy, the importance of supply and demand in determining prices, causes of unemployment and inflation, monetary and fiscal policies, Federal Reserve System, Wall Street and financial institutions, role of the government, budget deficits and public debt, international trade, comparative advantage, and trade deficits. This course cannot be used by business majors to fulfill general education, business core, or economics minor course requirements. Students having received credit for ECO 011 or ECO 012 cannot receive credit for ECO 010.

ECO 11: Principles of Macro-economics

Principles of Macroeconomics is an introduction to national income measurement, economic models of aggregate output, inflation, unemployment and economic growth. Emphasis is placed on use of fiscal and monetary policies to achieve the goals of price stability and full employment in a global economy.

ECO 12: Principles of Micro-economics

Microeconomics is the study of the economic behavior of individual units of an economy (such as a person, household, firm, or industry). It is primarily concerned with the factors that affect individual economic choices, the effect of changes in these factors on decision makers, how choices are coordinated by markets, and how prices and outputs are determined in individual markets. Since the results produced by markets are not always perfect, the role of government in correcting market failures is also examined.

ECO 150: Economic History of the United States

This course is a historical treatment of the economic development of the United States from colonial times to the present. Emphasis is placed on the roles played by the rule of law and the individual entrepreneur.

Prerequisites: ECO 11 or ECO 12

ECO 201: Development Economics

Development Economics is a theory and policy oriented course that examines domestic and global aspects of the processes of economic growth and development in less-developed nations. Emphasis will be placed on exploring economic theories that explain why some countries achieve economic prosperity while others remain in poverty. Explorations of growth and development theories will be supplemented by a comparative review of policy choices and growth strategies implemented by successful and less successful countries.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) and Economics minors with ECO 11 & 12

ECO 205: Intermediate Microeconomics

This course focuses on the application of intermediate-level microeconomic theories and concepts. Topics include consumer behavior, production and costs, price and output under alternative market structures, factor markets, and market failure. The course is required for the economics minor.

Prerequisites: ECO 11 and ECO 12

ECO 210: Intermediate Macroeconomics

Intermediate Macroeconomics is a branch of economics that focuses on the study of the causes of fluctuations in aggregate economic variables such as real gross domestic product, consumption, investment, inflation, and unemployment. The course will also examine how monetary and fiscal policy can be used to reduce the frequency and severity of short-term economic fluctuations so that the economy can achieve long-term economic growth, without inflations and recessions. The course is required for all students in the Economics Minor.

Prerequisites: ECO 11 and ECO 12

ECO 310: Money and Banking

This course looks at key issues in the theory and practice of financial markets, monetary policy and banking and how their interactions affect the economy. A broad range of topics will be analyzed, including the nature and uses of money, inflation, interest rates, and the structure of banks and other financial institutions. This course will also introduce students to the analysis of the Federal Reserve System and other government agencies that regulate the financial industry.

Prerequisites: ECO 11 and ECO 12

ECO 322: The Economics of Health and Medicine

This course examines the American health care system through the application of economic theories and empirical methods. Topics include physician and hospital services, the pharmaceutical industry, and health care insurance. The role of public policy in achieving specific social objectives is also discussed.

Prerequisites: ECO 11 and ECO 12

ECO 345: Econometrics

Econometrics is a field that uses economic theory and statistical methods to address empirical problems in economics. It is a tool for empirical discovery and policy analysis with the aid of econometric software. The course covers a variety of econometric tools, without requiring the knowledge of sophisticated mathematical or statistical techniques. Basic knowledge of economic theory, statistics, and mathematics is sufficient to understand the topics covered in this course.

Prerequisites: ECO 11 and ECO 12 and BUS 120 with a grade of "C" or higher or MAT 140 with a grade of "C" or higher

ECO 360CD: International Trade and Finance

An undergraduate level course in international economics, ECO 360 deals with topics such as workings of the global economy, the theory of foreign trade, tariffs, nontariff distortions to trade, international trade policy, foreign trade and economic growth, balance of payments, international transactions and financial markets, the determination of exchange rates, interest rate and the exchange rate, price level and the exchange rate, capital flows and the developing countries. The course is designed to appeal anybody with an interest in the world economy and an ambition for a leadership position in a multinational corporation.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) and Economics minors with ECO 11 & 12

ECO 379: Independent Study

The Department of Economics offers undergraduate students the opportunity to pursue individual research projects initiated by the student through independent study.

Independent study involves advanced individual research supervised by an Economics Department faculty. Before registering the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated for credit. (1-2 s.h., 1-3 c.h.)

Education**EDU 10: Professional Orientation**

An orientation and guidance course. Opportunities and requirements of the profession, the relationship of the school and society, and the organization and administration of the American school system. Directed observation of various schools and learning situations will be required.

EDU 15: College of Education: First Year Seminar

College of Education: First Year Seminar introduces College of Education first-year students, organized by cohorts according to declared major, to the critical strategies, resources, and responsibilities of a university student and future teacher. The seminar will build the students' foundation knowledge and understanding of what it means to be professional educators. Toward this end, the students enrolled in this course will participate in a number of relevant experiences that facilitate and strengthen their personal appreciation and intellectual understanding of their role as a teacher candidate and the Kutztown University support available to them to ensure their success. The course will be required to all entering first-year students and transfer students who have less than thirty credits. The course will be offered as Pass/Fail.

EDU 100CT: Perspectives on American Education

The course will provide an introduction and overview to the philosophy, history, sociology, and organization of American education. The study of American education will stress the relationships among social, economic, and cultural forces affecting the development of public education; historical and philosophical perspectives will be investigated.

EDU 101CTWI: Teaching Pre-K-8: An Exploration and Investigation

This course is an exploration course for students including dual certification students in the Elementary Education programs. It will build the students' foundation knowledge and understanding of what it means to be professional educators in both Early Childhood and Middle Level education. Students will participate in numerous relevant experiences that will develop and strengthen their academic abilities and personal understanding of their role as a student pursuing certification in either the Pre K - 4 or Middle level certification at Kutztown University. Four hours of fieldwork required.

EDU 120CD: Hip Hop and Multicultural Education

This course will investigate the connections between Hip-Hop culture, approaches to educating traditionally marginalized youth, and the way in which schooling can be constructed and disseminated in Hip-Hop. We will analyze the culture of Hip-Hop in an educational context and consider why rappers and effective teachers, how Hip-Hop is structured in ways that support argumentation and communication, and the ways in which traditional content courses can be taught using components of Hip-Hop culture. Once an understanding of Hip-Hop culture has been established, the term 'multicultural education' will be interrogated and lead students to question whether or not multicultural education has true meaning in current research and practice in education. This course will combine scholarship and theory with considerable exposure to various Hip-Hop songs and artists.

EDU 150CD: Meeting the Instructional Needs of English Language Learners

This course will provide teacher candidates with information about English Language Learners (ELLs) in American classrooms. The course will address principles of second language learning and teaching, English language acquisition, Cultural Diversity and lesson planning and delivery, PA English Language Proficiency Standards (ELPS), Research-Based teaching methods, and varied assessments. Additionally current federal, state, and local regulations relative to ELLs will be presented.

Prerequisites: Open to students in the College of Education or in the majors of Art Education or Music Education.

EDU 200: Student Activities

Major emphasis is upon the role that student activities play in the educational enterprise - a study of the nature and function of student activities - the managing of the activities program in the elementary and secondary school - detailed study of specific activities including organization, financial control, evaluation and legal responsibility. Student presentation and seminar method will be used.

EDU 225: The Role of the Teacher in Guidance Services

The history of guidance services will be presented to give the student background material. The foundations of counseling theories and techniques used in public school education will be defined. A study of the evaluative criteria used in school programs and their applications as supportive material to the classroom teacher will be explored.

EDU 228: Women in Education

Women's changing roles in education will be looked at from the perspectives of a student, a teacher, and an administrator. Women's impact and contributions to education at all levels of education will be examined. The role of the institution and the current status of women at all levels of education will be a major focus.

Prerequisites: College of Education majors only

EDU 245: Communication Disorders and the Classroom Teacher

This course is designed to enable the teacher to comprehend the stages of speech and language development in the child, to recognize typical speech and language problems, and to develop skill in motivating and guiding pupils in acquiring correct and effective habits of oral communication.

EDU 260: School and Community

A study of group and intergroup activities. Consideration is also given to the role of the individual in the group, to community interests, needs, resources, and problems, and to teacher responsibility in professional, social, religious, and civic affairs. Student participation in community activities is stressed.

EDU 326: Introduction to Middle Level Education

The philosophy, history, structure, and future direction of middle level education and how these topics relate to the characteristics of the young adolescent will be explored. Students will have the opportunity to explore the middle school concept, including curriculum and instructional strategies that are particularly appropriate for this age group. Observations in schools with culturally diverse populations and special needs students will target developmentally appropriate practice.

Prerequisites: Open to students in the College of Education.

EDU 330: Introduction To The Research Process

This course will familiarize students with the basics of the research process. It will include the structure and process of research, as well as the various types of research, and strategies that support each.

EDU 335: Urban Seminar: Field-Based Multicultural Education

This two-week field experience will be conducted in Philadelphia, PA, and is an opportunity for pre-service teachers, both elementary and secondary education majors, to interact with teachers and students in urban public schools. The course will emphasize interpersonal pedagogical skills needed for success of teachers and learners in urban schools. Inclusive in the course will be a community service project in the neighborhoods near the host schools.

EDU 350: Diagnostic and Remedial Reading

Lecture, reading, demonstration and practice in procedures for identifying and treating common disabilities in word perception and comprehension. Brief introduction to etiology of severe disability.

Prerequisites: ELU 201 or SEU 340

EDU 392: Managing an Inclusive Classroom

Managing an Inclusive Classroom provides both theoretical and practical information to help teacher candidates construct an environment for student learning. Teacher candidates will learn how to develop classroom procedures, manage student behaviors, and create positive learning environments. There will be an emphasis on restorative justice practices and collaborative learning with a focus on establishing a culture of learning while maintaining an environment of respect and rapport. This course is to be taken concurrently with student teaching.

EDU 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

EDU 411: Methods for Teaching Foreign Languages to Early Second Language Learners

This three-hour course provides pre-service and in-service teachers and native speakers whose teacher preparation has come from outside the United States with program models for FLEX (Foreign Language Exploratory Program), sequential FLES (Foreign Language Elementary School Program), and immersion programs as well as the theoretical and historical background and techniques for implementing them. Foreign languages as an integral part of the elementary school curriculum will be emphasized as a complement to the use of webbing within the classroom as it applies to foreign languages. Field experiences teaching in elementary schools are a required element of this course, which is also recommended for Elementary Education majors with a concentration in Foreign Languages.

Prerequisites: College of Education majors only

EDU 428: Culture and Diversity of English Learners

This course is designed to prepare English as a Second Language (ESL) program specialists to facilitate the integration of English Language Learners (ELLs) and their families into the host school and community. As well, the course facilitates school staff members' understanding of multi-cultural and multi-language learners' needs and support strategies so as to maximize the educational experience. Participants in this course will undertake a comparative approach to similarities and differences between the US culture and other cultures with the goal of developing cultural understanding and sensitivity of ELL/ESL students and families living in the US culture.

Prerequisites: Students that have taken EDU 528 Student Diversity & Critical Pedagogy, cannot take EDU 428.

EDU 434: Instructional Methodology for English Learners

This course is for English as a Second Language (ESL) practitioners in partial requirement for the Pennsylvania Program Specialist ESL Certificate. This course offers research-based information relative to the design and implementation of an ESL program; methods, strategies, and resources for ESL programs; the use of computer technology (hardware and software) for ELLs; the use of audio/visual media for ELLs; the adaptation of instructional strategies and materials to address the specific needs, talents and interests of ELLs; the integration of multicultural information for ELLs through various curricula; the development, implementation, and evaluation of varied curricular and instructional activities for diverse ELLs; metacognitive awareness and strategic planning of ELLs to assist them in regular classrooms; and the acculturation process regarding reading, writing, speaking, listening, and culture.

Prerequisites: College of Education majors only

EDU 435: Language Acquisition and English Linguistics

This course is for English as a Second Language (ESL) practitioners in partial requirement for the Pennsylvania Program Specialist-ESL Certificate. This course offers an overview of the basic mechanisms of human language, as well as first and second language acquisition and literacy development. Students will examine the linguistic elements of American English and discover effective methods of instruction and assessment of spoken and written language for use with ESL learners. This course is for English as a Second Language (ESL) practitioners in partial requirement for the Pennsylvania Program Specialist-ESL Certificate. This course offers an overview of the basic mechanisms of human language, as well as first and second language acquisition and literacy development. Students will examine the linguistic elements of American English and discover effective methods of instruction and assessment of spoken and written language for use with ESL learners.

Prerequisites: College of Education majors only

EDU 436: Assessment of English Learners

This course examines the different types and purposes of assessment and the various assessment issues that affect English language learners (i.e. accountability, bias). Students will learn about a variety of performance-based assessments as well as appropriate modifications and accommodations to traditional classroom and standardized assessments in order to measure English language learners' content knowledge independent of their language proficiency. This course will also prepare students to administer standards-based language proficiency assessments and to use the results of these assessments to determine the entry, placement, and instruction of English language learners, as well as to demonstrate students' progress toward and attainment of English language proficiency. This course is designed to meet the requirements for the Pennsylvania English as a Second Language Program Specialist certification program and the TESOL/CAEP Standards for P-12 Teacher Education Programs.

EDU 437: Protocols and Practices for PA ESL Programs

This course examines the history of bilingual and English as a Second Language (ESL) instruction in the United States and the impact of educational policy on the education of English language learners (ELLs). This course will also prepare students to build collaborative relationships with colleagues who are responsible for general and content-area instruction of ELLs and to serve as advocates for ELLs and their families. This course is designed to meet the requirements for the Pennsylvania English as a Second Language Program Specialist certification program and the TESOL/CAEP Standards for P-12 Teacher Education Programs.

EDU 450: Foundations in Science, Technology, Engineering & Mathematics (STEM) Education

This trans-disciplinary course provides insight into the historical, fundamental, and contemporary ideas of the nature of K-12 STEM education. Students explore contemporary K-12 STEM education developments, opportunities, and challenges from both discipline-based and integrative approaches. Through inquiry, students will examine current STEM education initiatives and modern integrative STEM educational considerations pertaining to policy, structure, and student learning. Finally, this course addresses the specific set of competencies that are relevant to teaching and learning STEM, including knowledge of standards (Next Generation Science Standards, PA Mathematics Standards, PA Science and Technology Standards), the need for authentic instruction, inquiry-based methodologies, design processes, and the important role of STEM in workforce preparation and responding to global issues.

Prerequisites: Entrance by department consent only.

EDU 452: Science, Technology, Engineering, and Mathematics (STEM) Education Pedagogy

This course examines the implementation of best practices in integrative STEM education and prepares teachers to create, implement, and reflect upon lessons designed to help students master content standards and STEM-based skills. This course also addresses the issues and knowledge that are relevant for teaching and learning, including integration of Pennsylvania's Standards Aligned System (SAS). Students explore the signature pedagogies unique to the fields of STEM education. Students also obtain an awareness of multiple models of teaching and learning, including inquiry-based instruction, project-based learning, use of instructional technologies, higher-order questioning strategies, critical thinking, collaborative problem solving, design and reflection cycles, STEM literacy skills, purposeful grouping, and differentiated instruction. This course will include five hours of fieldwork in a STEM setting.

Prerequisites: EDU 450

EDU 454: Science, Technology, Engineering, and Mathematics (STEM) Education Skills Application and Assessment

This course will cover the demonstration and application of STEM and 21st Century Learning skills. Course topics include higher-order thinking skills, creative problem solving, representation of real-world phenomena, and manipulation of technology. Candidates will learn to assess students using technology-enhanced, formative and summative assessments that measure mastery of 21st century skills, consistent with integrative STEM classroom learning. This course includes 10 hours of fieldwork in STEM classrooms.

Prerequisites: EDU 450

EDU 456: Science, Technology, Engineering, and Mathematics (STEM) Education Learning Seminar

This course is the culmination of teacher candidates' work and experiences in the STEM endorsement certificate program. The learning seminar engages teacher candidates with the real world data, tools, and experiences they will encounter in STEM-related fields and further develops their critical thinking and practical work skills. This course examines technologies that are particular to STEM education and explores several significant, contemporary topics related to research in STEM education. Course instruction follows a seminar format appropriate for field experience activities, including facilitated discussions and personal reflections. This course requires candidates to complete a 25-hour on-site experience with a STEM professional.

Prerequisites: EDU 450 and EDU 452 and EDU 454

EDU 490: Teacher Intern

This course is the capstone course for students who are obtaining Pennsylvania certification through the Teacher Intern Program. A fieldwork placement similar to student teaching is included in this experience. Department approval is required.

Prerequisites: College of Education majors only

EDU 491: Tutoring Methods and Strategies for Literacy Volunteers

This course will prepare undergraduate students in various academic disciplines to perform volunteer literacy tutoring and community service. The course will feature instruction in various literacy strategies, tutoring methods, and materials, including Laubach, Orton-Gillingham, Language Experience Approach, and ESOL, combined with instruction in affective strategies such as building self-esteem, establishing a climate conducive to learning, and reducing anxiety in the adult learner. Students will be required to serve as volunteer tutors.

EDU 496: Multicultural Education

This course is designed to help pre-service and in-service teachers and other education professionals to design and implement effective teaching strategies that reflect diversity, and to derive sound guidelines for multi-cultural programs and practices. The life realities, needs, and aspirations of culturally different children and youth are analyzed. Sources of content will be scholarly writings, field investigations, and community resources in foreign countries or American subcultures. Students will be participant observers conducting ethnographic qualitative research in cultural settings different from the mainstream American macro-culture.

Prerequisites: College of Education majors only

Elementary Education**ELU 110: The Visual Arts Experience in Elementary Education**

The visual arts experience is examined in relationship to the education of children pre-school through middle school. Through involvement in a variety of art history, art criticism and art production processes suitable for children, students will focus on the relationship of the visual arts to general education in a multi-cultural society, to the developmental growth of children, and to current issues in art education.

ELU 120: Music for Elementary Classroom Teacher

Designed to equip the elementary classroom teacher with the basic experience and competencies for teaching music in the elementary school, the course emphasizes practical classroom experiences in singing, listening, playing instruments, movement, and creative activities.

ELU 130: Introduction to Early Childhood Education

This foundation course focuses on the development of young children from infancy through age eight. Consideration will be given to historical perspectives, present programs, and current research in contemporary issues. Field experiences in pre-school programs, child care settings, and kindergartens are an integral part of the course.

ELU 202: Society, Teaching, and Dispositions

This course is designed to provide candidates with a variety of experiences that will develop dispositions expected of professional educators as delineated in professional, state, and institutional standards. Through structured field experiences, lecture, discussions and readings, candidates can gain knowledge and understanding and foster values about cultural and community diversity to use the information as a basis for connecting instruction to students' experiences. Candidates who can demonstrate prescribed dispositions will be encouraged to continue through the program.

Prerequisites: College of Education majors only

ELU 205: Science for the Elementary and Middle Schools (Required)

This course is designed to provide the future elementary and middle school teacher with a background for teaching science in the elementary and middle school classrooms using the discovery-inquiry, hands-on, "minds-on" approach. The scientific method is stressed throughout the course. The course includes the use of the metric system in the elementary and middle school classrooms as well as the utilization of various materials and special techniques and strategies. Laboratory activities are an integral part of this course.

Materials have been selected from the various fields of science.

Prerequisites: College of Education majors only

ELU 206: Teaching Science for Middle Level Learners

ELU 206 is designed to prepare teacher candidates with a background for teaching science in the middle level classrooms using inquiry centered, hands-on, "minds-on" approach. The connection between inquiry and science content is stressed throughout the course. The course is designed to build content knowledge, pedagogical knowledge, assessment, and connections to other disciplines in the classroom. The course utilizes exemplary science programs grounded in research. Teacher candidates will utilize science tools, materials, media, and technological resources to engage students in the learning of science content. The course models current research that focuses on student achievement and the role of the teacher in the classroom. The course will focus on the planning of inquiry-based science programs, actions taken to guide and facilitate student learning, the assessments made of teaching and student learning, the development of environments that enable to learn science, the creation of communities of science learners, and the planning and development of the school science program. (3 s.h., 4 c.h.)

Prerequisites: Any BioWLab or Any Phys Science

ELU 207: Health and Physical Education for Elementary Schools (Required)

This methods course is designed to provide students with an overview of the essential elements of school health and physical education for grades K through 8. Pre-service educators will receive instruction in various teaching styles and strategies used to present health and movement skills. The course will provide teacher candidates with the opportunity to plan and present health topics and physical education lessons. Skills necessary to stay current with trends and information in the field of health and physical education will be emphasized.

ELU 212CD: Teaching Diverse Learners at the Middle Level

This course is designed to provide pre-service teachers with a variety of experiences that will develop dispositions expected of professional educators as delineated in professional, state, and institutional standards. Pre-service teachers will gain knowledge and foster values about cultural and community diversity to use as a basis for connecting instruction to students' experiences. Students who can demonstrate appropriate dispositions toward diverse populations and knowledge of effective and appropriate strategies will be encouraged to continue through the program.

Prerequisites: College of Education students or Pre-Candidacy students only.

ELU 218: Multicultural Perspectives of Urban Education

Participants will be invited to engage in the pedagogical process of building a framework that contributes to their understanding of the unique preparation involved in becoming an effective educator for children and young adolescents who attend schools in dynamic urban settings. Through the development of an appreciation for the personal, cultural, social, family, and community dynamics of urban education, participants will learn to use knowledge from current multidimensional research about urban instructional models to develop, manage and support meaningful instruction for all students in urban settings. Two hours of observations in urban school settings are required.

ELU 221VL: Literature for Upper Elementary and Middle Level Learners

This course focuses on literature for upper elementary and middle level students with emphasis on classroom applications. Literary theory, genre, form, and illustrations are considered in the context of lesson implementation. Approaches to evaluating the quality of literature, selecting literature for instruction, planning response experiences, and the development of specific teacher skills related to the use of literature at the fourth through eighth grade levels are included. Employing professional resources in planning literature experiences, as well as strategies for engaging in on-going professional development as a literacy educator, are also incorporated.

Prerequisites: Students in the College of Education, Pre-Candidates and 4-8 minors with an English Literature course completed

ELU 233: The Integrated Curriculum in Early Childhood Education

This course focuses on determining and devising a developmentally appropriate, all-inclusive content curriculum for infants, toddlers and young children reflecting diversity. Curriculum goals, program schedules, learning environments, selection of instructional materials, content areas and assessment of the curriculum are addressed through projects, readings and field experiences.

Prerequisites: College of Education majors only

ELU 236: The Arts in the Early Childhood Curriculum

This course focuses on designing an all-inclusive, developmentally appropriate creative arts curriculum for the young child. This creative arts curriculum emphasizes play, literature, creative movement, music, creative dramatics and visual arts. A diversified visual and performing arts curriculum will be developed using research, readings, projects, and field experiences.

Prerequisites: College of Education majors only

ELU 300: Fundamentals of Reading Instruction I

In this course, teacher candidates preparing to become certified elementary classroom teachers (a type of Category II Classroom Teachers as defined by the International Reading Association), will study foundational knowledge of reading and writing processes and instruction. Focus will be on understanding the reading process as one of the interrelated language arts with emphasis placed on belief systems about reading instruction, perception and reading, language development and its relation to success in reading, understanding word structure, word recognition skills, fluency, and literate environments. This is a required course in the Elementary Education Program, to be taken after candidacy requirements are met.

Prerequisites: College of Education majors only

ELU 301: Fundamentals of Reading Instruction II (Required)

A continuation of study begun in Fundamentals of Reading Instruction I with emphasis on comprehension skills, teaching reading in content area subjects, understanding programs and processes and evaluating performance in reading. Students examine various materials of instruction in reading. A part of the professional semester block.

Prerequisites: College of Education majors only

ELU 302: Children's Literature (Required)

This course consists of a survey of important children's books, including winners of Newbery and Caldecott Awards, folk literature and poetry. The course encourages the wide reading of children's literature and provides opportunity for storytelling, the creating of materials to be used with children, and the reviewing of criteria used in the evaluation of children's books. A vital part of this course is the emphasis on books about children from multi-cultural backgrounds. Where applicable the historical, political, philosophical and sociological backgrounds of education are blended into the ongoing study of children's books. A part of the professional semester block.

Prerequisites: College of Education majors only

ELU 303: Language Arts (Required)

Background material and techniques for teaching and evaluating skills in the many aspects of oral and written language arts - listening, speaking, usage, spelling, creative writing, handwriting: manuscript and cursive. A part of the professional semester block.

Prerequisites: College of Education majors only

ELU 304: Social Studies for Elementary Schools (Required)

This course focuses on standards and concepts from the social sciences and citizenship education. It examines the development of integrated instruction and resources including technology. A part of the professional semester block.

Prerequisites: College of Education majors only

ELU 306: Integrating Principles of Learning and Teaching: Classroom Applications (Required)

Teacher candidates are provided with current theory and practices in elementary education including instructional models and processes, classroom management, professional behavior, current learning theory and issues of diversity. This course incorporates an elementary/middle school classroom placement. A part of the professional semester block.

Prerequisites: College of Education majors only

ELU 308: Mathematics for Elementary Schools (Required)

This course is designed to prepare prospective teachers to teach mathematics to all children from preschool to grade eight. Instructional strategies appropriate for various stages of intellectual development will be examined. The use of manipulatives, calculators and computers in the teaching of mathematics will be included. ELU 308 is part of the professional semester block.

Prerequisites: College of Education majors only

ELU 311: Teaching Culturally and Linguistically Diverse Children to Read

Teaching Culturally and Linguistically Diverse Children to Read is a course in the Reading Concentration that is designed to provide elementary teacher candidates with those cognitive and affective competencies required to effectively teach reading skills to children classified as culturally and linguistically different.

Prerequisites: College of Education majors only

ELU 321: Assessment of Children: Birth through the Middle Years (Required)

This course examines formal and informal assessment of children from infancy through the elementary school years. Both traditional and alternative assessment methods, including observation of students, testing, performance-based assessment, rubrics and portfolios will be included. Teacher-made evaluation instruments and record-keeping devices will be emphasized and used during experiences. Required (except for those students in the dual certification program in Special Education).

Prerequisites: College of Education majors only

ELU 322: Assessment Methods: Formative, Summative, Diagnostic, and Benchmark

This course examines the formal assessment of children from grades four through eight. Both traditional and alternative assessment methods including diagnostic, authentic, formative, summative, and benchmark are instructed and developed within this course. Use of technology to support instruction and assessment will also be addressed. Learning appropriate assessment methods is imperative to meet the instructional needs of individual students. Required (except for those students in the dual certification program in Special Education).

Prerequisites: College of Education majors only

ELU 325: Differentiated Instruction: Key to Responsive Teaching

This course investigates basic procedures for differentiating instruction based on students' readiness, interests, or learning profiles. Participants will explore strategies that can be used effectively and applied realistically in elementary and middle school classrooms. These strategies will be based on classroom elements such as content, process, products, and learning environment. Appropriate assessments for use in differentiated instruction will be examined.

Prerequisites: EDU101 and EEU 202 OR ELU 212

ELU 331: Teaching and Assessing Literacy for Middle Level Learners Across Academic Disciplines

This course examines literacy development in grades 4-8. Teacher candidates will learn strategies for developing students' proficiencies in word recognition, fluency, vocabulary, and comprehension as they read across content areas. Participants in this course will examine major literacy concepts in academic disciplines and theories associated with young adolescent cognitive development, special education, and English Language Learners (ELLs), including research related to motivation and learning styles applied to content areas. The course also requires candidates to apply their knowledge of the reading process, based on theories of learning, as they explore and evaluate various reading programs, instructional approaches, appropriate assessments, technology, and materials for middle level learners.

Prerequisites: Students in the College of Education or Pre-Candidacy with ELU 221

ELU 334: Instructional Strategies in Early Childhood Education

Instructional strategies appropriate for advancing the intellectual, social, emotional, and physical development of the young child will be examined in this course. Significant contributions of recent research focusing on teaching methods will be considered. Opportunities to develop a variety of teaching strategies and to use them in nursery, kindergarten, or primary school settings will be provided. Micro-teaching will be available to the student.

Prerequisites: College of Education majors only

ELU 338: Internship in Early Childhood Education

Supervised field experiences in diverse settings will include, but not be limited, to daycare centers, Headstart programs, migrant programs, public schools, or family day care homes. The internship may also include international, administrative, or community settings.

Prerequisites: College of Education majors only

ELU 341: Methods in Social Studies and Content Area Reading for Middle Level Learners

Designed for teacher candidates in the middle level professional core - grades 4-8, participants in this course will examine major content area literacy concepts and theories associated with young adolescent cognitive development, special education, and ELL, including research related to motivation and learning styles applied to content areas, specifically Social Studies. Teacher candidates will also critically examine the role of Social Studies in the middle level curriculum. The concepts and processes drawn from the social science disciplines and humanities will be developed. An analysis of contemporary methods and materials in social studies will enable the teacher candidates to gain the knowledge, skills, and dispositions necessary to prepare young adolescent learners of all backgrounds for participation in a democratic society in an interdependent world. Both content areas will be integrated and applied in support of each other during an intensive field experience.

Prerequisites: College of Education students with ELU 221 & ELU 331

ELU 342WI: Teaching Writing at the Middle Level

Middle school teacher candidates will pursue in-depth examination of the research, theory, and best practice in writing instruction for middle level learners. Emphasis will be placed upon instruction in the modes of writing; integrating direct instruction of grammar and usage within authentic contexts; incorporating writing in response to literature; writing to construct meaning across the curriculum; addressing the state standards as they impact the teaching of writing; analyzing assessment strategies to determine individual student progress and program effectiveness; designing effective writing assignments; experiencing and reflecting on the writing process as a writer; and implementing technology into the writing workshop environment.

Prerequisites: College of Education majors only

ELU 344: Teaching and Assessing Social Studies for Middle Level Learners

Designed to prepare teacher candidates with a background for teaching and assessing social studies themes of history, geography, civics/government, and economics in elementary and middle level classrooms grades 4-8, this course uses inquiry based and student-centered approaches to lifelong learning. By using simulation, role-play, case studies, cultural artifacts, cooperative learning, and inquiry project built upon student research, participants are invited to share social studies concepts and themes that provide insights into historical periods and cultures and help students and youth to understand events and periods from multiple perspectives. Emphasis is placed upon authentic activities that call for real-life applications using skills and content of the field. Teacher candidates will demonstrate the ability to teach and assess social studies content using analytic thinking skills while meeting state content standards both on campus and in an extensive field experience. ELU 344 is part of the Elementary Education Grades4-8 professional semester block of courses.

Prerequisites: College of Education majors only

ELU 346WI: Middle Level Cognitive Development

This course provides teacher candidates with an overview of current practices in middle level education (grades 4-8) that address instructional models and processes, classroom management and professional behavior. Teacher candidates are also presented with current learning and motivation theory including issues of adolescent development. This course includes a middle level school classroom placement where teacher candidates are given an opportunity to apply theories and implement strategies developed in their coursework.

Prerequisites: College of Education majors only

ELU 347: Teaching and Assessing Mathematics for Middle Level Learners

This methodology course is designed to prepare teacher candidates to teach and assess mathematics for a wide variety of middle level learners. It will enable candidates to understand and use effective instructional strategies and accepted best practices in order to help adolescent students master more rigorous mathematical content. Candidates will be instructed how to integrate learning theory, developmental theory and cognitive science. There will be a strong link between math content and methods so that candidates will have an understanding about the connection between content knowledge and pedagogical knowledge for optimal teaching and assessing mathematics. This course is part of the Elementary Education Grades4-8 professional semester block of courses.

Prerequisites: College of Education majors with MAT103 & MAT 104

ELU 348: Teaching Mathematics and Science for Middle Level Learners

This course is designed to prepare prospective teachers to teach mathematics and science for a wide variety of middle level learners. It is designed to prepare teacher candidates to an inquiry centered, hands-on, “minds-on” approach as they teach mathematical and science. The connection between inquiry and content is stressed throughout the course. The course is designed to build on content knowledge, pedagogical knowledge, assessment, and connections to other disciplines in the classroom. Candidates will be instructed how to integrate learning theory, development theory and cognitive science. There will be a strong link between mathematics content and methods so that candidates will have an understanding about the connection between content knowledge and pedagogical knowledge for optimal teaching. Teacher candidates will utilize science tools, mathematical manipulatives, materials, media, and technological resources to engage students in the learning of science and/or mathematics content. The course models current research that focus on planning of inquiry-based programs and the actions needed to guide and facilitate student learning. ELU 348 is part of the professional semester block.

Prerequisites: MAT 103, MAT 104, BIO with lab, and a Physical Science without or without a lab.

ELU 349: Teaching and Assessing Science for Middle Level Learners

Designed to prepare teacher candidates with a background for teaching and assessing science for students in middle level classrooms, this course emphasizes use of student-centered, inquiry-based, hands-on, “minds-on” instructional approaches to teaching science content knowledge, skills and dispositions observed in scientific communities. Use of explicit connections between inquiry learning and science processes to develop science content knowledge is stressed throughout the course. Building upon their entering science content knowledge, as well as knowledge of assessment in science, teacher candidates learn ways of connecting exemplary science methodology, and programs grounded in research, to other classroom disciplines. Teacher candidates are expected to utilize science tools, materials, media, and technological resources to develop a repertoire of lessons that engage students in the learning of science content and the real-life process skills they can use to “do science.” Additionally, the course models current curriculum research that focuses on student achievement, high stakes testing, and the role of the teacher as facilitator and guide in the inquiry-based science classroom. During extensive professional semester field placements, teacher candidates will explore, plan and implement ways to engage students in inquiry-based science lessons as the foundation of strong science programs.

ELU 351: Diagnostic and Remedial Reading

Students study causes and classification of reading disability cases, examine and administer tests of reading ability, determine needs and plan appropriate learning activities for disabled readers. Materials designed specifically for learning disabled children are pursued. This course is only offered in the Fall.

Prerequisites: College of Education majors only

ELU 352: Reading Diagnosis and Interventions at the Middle Level

Candidates identify the factors that impede reading development for the middle level learner resulting in reading disabilities. Teacher candidates collect and evaluate a variety of evidence to determine a child's strengths and needs. Materials designed for learning disabled and ELL children are pursued. A field experience is required.

Prerequisites: College of Education students with ELU 221 & ELU 331

ELU 353: Language Development, Reading Assessment and Interventions

Participants will identify factors that contribute to language and literacy development of children and young adolescent students. Focus will be on the study of students' reading and writing behaviors with emphasis on the development and use of instructional plans that effectively address language and related literacy development, with explicit attention toward assessment of reading and writing difficulties. Teacher candidates will collect and evaluate a variety of artifacts that support students' strengths and needs in relation to their literacy development. Classroom instructional interventions will be explored and designed to meet differentiated instructional needs of all students, including children with special needs and English as an additional language. A field experience is required.

Prerequisites: College of Education majors and EEU 300 or ELU 331

ELU 366: Integrating the Arts into the Elementary Classroom

This course explores the concepts and skills central to the visual and performing arts and examines the role of the arts in society. Students will learn how to develop substantive connections between the arts and other subject areas in the elementary curriculum. They will learn and practice developmentally appropriate strategies for integrating and assessing learning in the arts.

Prerequisites: College of Education majors only

ELU 370: Selected Topics in Elementary Education

An in-depth study of a topic that is of high immediate relevancy to elementary educators. Topics will vary depending upon interests of students and faculty, or the timeliness of the subject matter. The course content will normally change each time the course is offered. The course may be repeated for up to six credits provided the same topic is not repeated.

Prerequisites: College of Education majors only

ELU 380: Independent Study in Elementary Education

Independent Study is based on a student's pursuit of a subject in elementary education not covered within a regularly offered undergraduate course in Elementary Education.

Students may schedule this course for one to three credits in a single semester, with no more than six credits for Independent Study overall.

ELU 390: Student Teaching and Practicum (Elementary I)

ELU 390 & 391 are segments of a single course which provides two full-time classroom experiences comprising an entire semester. Opportunities are provided for observations and participation in all activities related to teaching. The practicum, concurrent with student teaching, is a clearing house for the selection, organization, and presentation of proposed units, lessons, and other classroom related activities. In addition, it provides an opportunity for the discussion of problems that arise in the classroom. Students organize units of instruction and present them for evaluation by the group.

Prerequisites: College of Education majors only

ELU 391: Student Teaching and Practicum (Elementary II)

ELU 390 & 391 are segments of a single course which provides two full-time classroom experiences comprising an entire semester. Opportunities are provided for observations and participation in all activities related to teaching. The practicum, concurrent with student teaching, is a clearing house for the selection, organization, and presentation of proposed units, lessons, and other classroom related activities. In addition, it provides an opportunity for the discussion of problems that arise in the classroom. Students organize units of instruction and present them for evaluation by the group.

Prerequisites: College of Education majors only

ELU 392: Clinical Experience with Middle Level Learners I

ELU 392 and ELU 393 are segments of a program requirement, which provide two full-time elementary/middle classroom experiences comprising an entire semester.

Opportunities are provided for observations and participation activities related to teaching. The practicum, concurrent with student teaching, provides an opportunity for the discussion of current issues and problems that arise in and out of the classroom.

Prerequisites: College of Education majors only

ELU 393: Clinical Experience with Middle Level Learners II

ELU 392 and ELU 393 are segments of a program requirement, which provide two full-time elementary/middle classroom experiences comprising an entire semester.

Opportunities are provided for observations and participation activities related to teaching. The practicum, concurrent with student teaching, provides an opportunity for the discussion of current issues and problems that arise in and out of the classroom.

Prerequisites: College of Education majors only

ELU 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

ELU 412: Education and Care of Infants and Toddlers

Through research, discussion, practical applications in the field, and critical thinking, the students will expand their knowledge and understanding of the child from birth to age three. Ideas and selected approaches will be introduced to increase the students' abilities to create an appropriate educational environment based upon sound child development principles. Recent neurophysical research findings will be stressed and applied to develop strategies and plans for group care of the child from birth to three.

Prerequisites: College of Education majors only

ELU 415: Building Partnerships for Educating Young Children: Families, Schools, and Communities

This course explores the relationships of the diverse people, organizations, and societies responsible for the education of young children. Historical influences, effective teaching strategies and curriculum for working together and successful partnership models are emphasized. Field experiences with parent programs and family agencies are required.

Prerequisites: College of Education majors only

ELU 420: Administration of Early Childhood Programs

This course is designed to provide the knowledge-base necessary for administering and directing diverse early childhood programs. The roles and duties of the administrator, budgets, personnel, environmental factors and public awareness are addressed through projects and readings. Through both field experiences and research, alternative models of early childhood programs are explored.

Prerequisites: College of Education majors only

ELU 452: Current Trends in Reading Instruction

This course will examine current reading programs and major developments in the teaching of reading. Students will analyze programs, approaches, and instructional methods in view of current reading research. In addition, students will take part in discussions concerning the selected topics. Specific topics will vary from semester to semester, as changes occur in topics addressed in current professional journals.

Prerequisites: College of Education majors only

Elementary Education: Pre-K 4**EEU 202: Dispositions Toward Advocacy, Collaboration, and Cooperation**

This course is designed to provide participants with a variety of experiences that will develop dispositions expected of professional educators as delineated in professional, state, and institutional standards. Participants will gain knowledge and understanding and foster values about cultural and community diversity to use the information as a basis for connecting instruction to students' experiences. Students who can demonstrate prescribed dispositions will be encouraged to continue through the program. Five hours of fieldwork are required.

EEU 205: Teaching Science in Early Childhood

EEU 205 Teaching Science in Early Childhood is designed to prepare teacher candidates with a background for teaching science in the primary level classrooms using inquiry centered, hands-on, "minds-on" approach. The connection between inquiry and science content is stressed throughout the course. The course is designed to build content knowledge, pedagogical knowledge, assessment, and connections to other disciplines in the classroom. The course utilizes exemplary science programs grounded in research. Teacher candidates will utilize science tools, materials, media, and technological resources to engage students in the learning of science content. The course models current research that focuses on student achievement and the role of the teacher in the classroom. The course will focus on the planning of inquiry-based science programs, actions taken to guide and facilitate student learning, the assessments made of teaching and student learning, the development of environments that enable to learn science, the creation of communities of science learners, and the planning and development of the school science program.

Prerequisites: Pre-Candidacy & College of Ed majors with a Biology with lab; and a physical science with or without lab or 1 of the following: GEG204 or 304 or 323 or 324 or 347; and 1 of the following: EEU 225 or SPU 318 or SPU 221

EEU 209: Math Foundations for Pre-K 1

This course is designed to prepare prospective teachers to teach mathematics to all children from preschool to grade one. Instructional strategies appropriate for various stages of intellectual development will be examined. The use of manipulatives and technology in the teaching of mathematics will be included. Pre-K through grade 4 candidates will be instructed to apply the principles that guide all mathematics instruction as well as the specific NCTM standards for early childhood that are based on the belief that "students learn important mathematical skills and processes with understanding". Candidates must know and effectively deliver core academic content in the following learning areas and must have the skills to stay current with the research on best practices for content instruction for students, Pre-K through grade 1. Five hours of fieldwork required.

Prerequisites: Pre-Candidacy or College of Education majors with MAT 103 and MAT 104

EEU 211CD: Family Collaboration and Diversity

This course is designed to provide elementary teacher candidates with the professional knowledge, skills, context, and strategies to facilitate learning for students from diverse cultural/linguistic backgrounds. Five hours of fieldwork required.

Prerequisites: Pre-Candidacy or College of Education majors or Pre-K to 4 minor with EEU 202 or SPU 101

EEU 215: Introduction to Early Childhood Education

A survey course focusing on early childhood educational continuum from infancy through age nine. Consideration will be given to historical backgrounds, existing programs, and relevant research in each approach. Participants must know and understand child development, theories of learning, and developmentally appropriate practice when working in the field of early childhood education. Emphasis will be placed upon the role and value of play, working with families, and designing effective learning environments that meet the needs of all learners. Field experiences and observations in preschool programs, day care settings, nursery schools, kindergarten and primary classrooms are an integral part of the course. Eight hours of required fieldwork in Pre-K setting, background checks will be required.

Prerequisites: College of Education majors or Pre-Candidacy or Pre-K minors with PSY 11 & PSY 110. Students who have taken EEU 130 should NOT take this course.

EEU 220VL: Children's Literature for Pre-K 4

This course consists of a survey of quality children's books, including various genre, and awards. The course encourages the wide reading of children's literature, the use of literary elements, the reviewing of criteria used in the evaluation of children's books, and exploring ways to use literature in the classroom. A vital part of this course is the emphasis of literature from diverse perspectives. Where applicable the historical, political, philosophical, and sociological backgrounds of education are blended into the ongoing study of children's books.

Prerequisites: An English Literature class

EEU 225: Assessment I: Observation and Informal Assessment

This course examines the informal assessment of children from pre-kindergarten through grade four. Both traditional and alternative assessment methods, including observation of students, performance-based assessment, and portfolios will be instructed and developed. Use of technology to support assessment and data management will also be addressed. Seven hours of required fieldwork in Pre-K setting.

Prerequisites: College of Education students or Pre-Candidacy students with EEU 130 or EEU 215

EEU 236: The Arts and Pre-K 4 Education

This course provides Pre-K through Gr4 Teacher Candidates with concepts and skills central to the visual and performing arts (Visual Art, Music, Theater, and Dance). Candidate will learn how to construct developmentally appropriate learning experiences in the arts for Pre-K through 4 students and how to integrate these experiences with other subjects. (3 s.h., 4 c.h.)

EEU 300: Early Literacy Development and Acquisition Pre-K 1

Teacher candidates preparing to become Pre-K -1 Category II Classroom Teachers, as defined by the International Reading Association, and supported by Interstate New Teacher Assessment Support Consortium (INTASC) and PA Department of Education (PDE) Standards will study foundation knowledge of reading and writing processes and methods of reading instruction in this course. Focus will be upon knowledge and skills necessary for understanding the reading process for beginning readers as one of the interrelated language arts with emphasis placed on belief systems about reading; instruction in relation to effective teaching of standards-based curriculum; perception and reading; language development and its relation to student achievement and success in reading; understanding word structure; skills of word recognition; vocabulary development; and literate environments. This is a required course in the Pre K - 4 Teacher Education Program. Nine hours of fieldwork required.

Prerequisites: College of Education majors with EEU130 or EEU 215

EEU 301: Teaching Literacy in Grades 2-4

This course examines literacy development in grades 2-4 with particular attention to how students create meaning as they read. Teacher candidates learn strategies to develop word study, fluency, meaning vocabulary, and comprehension. The course also prepares candidates to use and evaluate various reading programs, instructional approaches, and materials. This course situates the teaching of reading within theories of learning as they relate to the reading process. This course is part of the professional semester block.

Prerequisites: EEU 300

EEU 303WI: Language Development and Teaching Language Arts In Prek-4

This methodology course will prepare candidates to become effective teachers of the language arts based on research based best practices. The focus will be on learning the development of language in children and its implications for planning effective language arts instruction including using mentor texts as a model for student writing. In addition, candidates will learn instructional strategies for integrating the language arts onto content areas. This course is one of the courses in the Professional Semester block.

Prerequisites: College of Education majors only

EEU 304: Teaching Social Studies for Pre-K 4

Teaching Social Studies Methods in Pre-K4 is designed to teach pre-service teachers, entering the field in Pre-K4, different approaches to teaching social studies. The course helps to prepare pre-service teachers to implement social studies concepts and content where ever they can integrate it into multiple content areas. The course will also focus around the ten National Council of Social Studies Themes which are: Culture; Time, Continuity and Change; People, Places, and Environments; Individual Development and Identity; Individuals, Groups, and Institutions; Power, Authority, and Governance; Production, Distribution, and Consumption; Science, Technology, and Society; Global Connections; Civic Ideals and Practices.

Prerequisites: College of Education majors only

EEU 306WI: Integrating Principles of Learning for Pre-K 4

This course provides teacher candidates with an overview of current practices in preschool and elementary education that address instructional models and processes, classroom management and professional behavior. Teacher candidates are also presented with current learning theory including issues of child development, diversity and exceptionality. This course includes a preschool/elementary school classroom placement where teacher candidates are given an opportunity to apply theories and implement strategies developed in their coursework.

Prerequisites: College of Education majors only

EEU 309: Teaching Mathematics in Grades 2-4

This is the second of two courses designed to prepare prospective teachers to teach mathematics to all children from preschool to grade four. Instructional strategies appropriate for various stages of intellectual development will be examined. The use of manipulatives and technology in the teaching of mathematics will be included. Pre-K through grade 4 candidates will be instructed to apply the principles that guide all mathematics instruction as well as the specific NCTM standards for early childhood that are based on the belief that "students learn important mathematical skills and processes with understanding." Candidates must know and effectively deliver core academic content in the following learning areas and must have the skills to stay current with the research on best practices for content instruction for students, grade 2 through grade 4.

Prerequisites: Students in the College of Education with MAT 103, MAT 104 and EEU 209

EEU 315: Family and Community Collaboration Partnerships

This course explores the relationships of the diverse people, organizations, and societies responsible for the education of young children. Historical influences, effective teaching strategies and curriculum for working together, and successful partnership models are emphasized. Field experiences with parent programs and family agencies are required.

EEU 325: Assessment Methods II: Formative, Summative, Diagnostic, and Benchmark

This course examines the formal assessment of children from pre-kindergarten through grade 4. Both traditional and alternative assessment methods that include diagnostic, normative, authentic, benchmark, and summative tools will be instructed and developed within this course. Use of technology to support instruction and assessment will also be addressed. Learning appropriate assessment methods is imperative to meet the instructional needs of individual students. Required (except for those students in the dual certification program in Special Education).

Prerequisites: Students in the College of Education with EEU 225

EEU 350: Language Development, Learning to Read and Assessment

Candidates identify the factors that affect language and literacy development, study probable causes of dysfluency and other reading problems, plus collect and evaluate a variety of evidence to evaluate a child's strengths and needs related to literacy.

Instructional interventions are designed to meet the needs for differentiated instruction. A field experience is required.

Prerequisites: Students in the College of Education with EEU 300

EEU 390: Clinical Experience I: Pre-K 4

EEU 390 and EEU 391 are segments of a program requirement, which provide two full-time early childhood classroom experiences comprising an entire semester. Opportunities are provided for observations and participation activities related to teaching. The practicum, concurrent with student teaching, provides an opportunity for the discussion of current issues and problems that arise in and out of the classroom.

Prerequisites: College of Education majors only

EEU 391: Clinical Experience II: Pre-K 4

EEU 390 and EEU 391 are segments of a program requirement, which provide two full-time early childhood classroom experiences comprising an entire semester. Opportunities are provided for observations and participation activities related to teaching. The practicum, concurrent with student teaching, provides an opportunity for the discussion of current issues and problems that arise in and out of the classroom.

Prerequisites: College of Education majors only

EEU 415: Family and Community Collaboration Partnerships

This course explores the relationships of the diverse people, organizations, and societies responsible for the education of young children. Historical influences, effective teaching strategies and curriculum for working together with families, and successful partnership models are emphasized. Teacher candidates will gain knowledge and demonstrate an understanding of cultural and community diversity as a basis for instructional planning with ELL awareness and accommodations. Field experiences with parent programs and family agencies are required.

Engineering**EGR 121: Engineering Drawing and Lettering**

This course is an introduction to basic mechanical drawing emphasizing multi-view and pictorial drawing, dimensioning, space analysis, graphs and engineering standards.

Lettering and experiences with various design tools and media will facilitate the development of the graphic communication skills for the engineer/draftsman/designer.

EGR 130: Engineering Mechanics

This course is an introduction to the study of both statics and dynamics with a concentration in engineering applications. Topics include statics and dynamics of particles and rigid bodies, analysis of structures and distribution of forces in beams and cables, work-energy, impulse-momentum, and systems of particles and rigid bodies.

Prerequisites: PHY 100 & MAT 181

EGR 230: Strength of Materials

This course is an introduction to the study of the mechanical behavior of materials. Topics include transverse shear in beams, Mohr's circle for stress, plastic yield criteria, deflection of beams, fatigue and fracture, column buckling and stresses in thick-walled cylinders.

Prerequisites: EGR 130 & MAT 182

EGR 330: Fluid Mechanics

This course is an introduction to the study of the fluid mechanics. Topics include kinematics of fluid flow and similarity concepts, equations of incompressible fluid flow with inviscid and viscous applications, turbulence, one-dimensional compressible flow, shock waves, boundary layers, separation, wakes and drag.

Prerequisites: PHY 245 & MAT 283

EGR 370: Research in Engineering

This course involves individual research on a specific problem in engineering or a related field under the advice of a faculty member. Students must discuss research opportunities with any faculty members whose areas of expertise interest them.

This course can be repeated for credit.

Prerequisites: Permission of Instructor

English**ENG 10CT: Introduction to Literature**

This course is designed to develop and intensify the student's aesthetic, intellectual, and emotional response to imaginative literature. It is designed as an introductory course in literature for students who are not majoring or minoring in literature, is intended to be used almost exclusively as a course in General Education, and is not applicable to the Major in the B.A. in English/General or Professional Writing, to the Specialization in the B.S. in Secondary Education/English, or to the Minor in Literature.

ENG 21: English as a Second Language

This course, for students for whom English is not a native language, develops vocabulary, reading, and writing skills. It does not satisfy the English composition requirement.

Grade: Satisfactory/Unsatisfactory. Previously offered as ENG 005.

ENG 22: Introduction to College Composition

This is an introductory writing course designed to increase students' writing proficiency and prepare them for the work of ENG 023. ENG 022 focuses on the writing process and provides an introduction to critical thinking and analytical writing. Students gain experience in writing in variety of genres which may include, but are not limited to, proposals, reviews, personal narratives, digital texts, rhetorical analyses, persuasive essays, reports, and critical analysis. Readings are assigned to provoke discussions, provide opportunities for the analysis and synthesis of arguments, and to generate essay topics. Particular attention is paid to topic generation, focus, purpose and development. In addition, mechanics of Standard Edited American English, which may include diction, grammar, syntax, usage, and structure, are addressed as part of the process of writing; however, the focus of this course is not grammar instruction. Students completing this course must still complete ENG 023 or ENG 025 to fulfill the General Education requirement in composition.

ENG 23: College Composition I

This is a sustained examination of and practice with college-level writing. Students will generally take ENG 023 in their first year of college. The course focuses on the writing process and provides sustained practice in critical thinking, reading, and writing demanded by academic, public, and professional writing. Students gain experience in writing in a variety of genres which may include, but are not limited to, proposals, reviews, personal narratives, digital texts, rhetorical analyses, persuasive essays, reports, and critical analysis essays. Readings are assigned to provoke discussions, provide opportunities for the analysis and synthesis of arguments, and finally to generate essay topics. Particular attention is paid to research processes and the conventions of including research in texts. In addition, the mechanics of good writing, which may include diction, grammar, syntax, usage, and structure are addressed as part of the process of writing; however, the focus of this course is not grammar instruction. ENG 023 (or ENG 025) is a General Education requirement for all students in all majors. In addition, ENG 023 is a prerequisite for all upper-division English department courses.

ENG 25: Honors Composition

A first course within the Honors Program that focuses on critical reading, writing, and thinking within the arts and sciences. Satisfactory completion of this course fulfills the university requirement in composition and the prerequisite for all other upper-division writing courses. This course does not replace ENG 230. Previously offered as ENG 231.

ENG 100WI: Principles of Literary Analysis

This course will examine basic literary terms and genres and their manifestation in the theme and form of selected works of poetry, drama, and fiction. Required for English General and Secondary Education/English majors, and Literature minors.

Prerequisites: ENG 23, 24, or 25 and BA English & BSED Secondary Education majors only.

ENG 101CDCT: World Literature I

World Literature I surveys literary masterpieces from the Ancient period to the Renaissance, focusing on texts outside the traditional canons of American and British Literature. Particular attention will be given to those texts and authors that have had the greatest impact on our literary world.

Prerequisites: ENG23, ENG24 or ENG25

ENG 102CDCT: World Literature II

Intensive reading of selected masterpieces of world literature which reflect the evolution of human thought, to develop in the student the power of discrimination and the habit of evaluating. Either semester may be taken independently.

Prerequisites: ENG23, ENG24 or ENG25

ENG 105CDCT: Experiences in American Literature

This course covers representative and foundational period writings in American literature. Particular attention is given to works that illuminate national literary development, intellectual and cultural history, and ideals.

Prerequisites: ENG23, ENG24 or ENG25

ENG 106CDCT: Experiences in British Literature

This course draws upon texts of the British Isles from the earliest known writing through the present and includes a variety of genres. In this wide-ranging course, students will read (or otherwise experience) a focused selection of British literature that explores the connections and innovations of the literature that continues to shape the world.

Prerequisites: ENG23, ENG24 or ENG25

ENG 108CTWI: Poetry and Poetics

This course is an introduction to the college level study of poetry. Ideal for writers, teachers, and scholars, the course lays foundations for advanced study in specialized courses. The course builds foundations in the language and forms of poetry by studying masterpieces to illustrate the traditions and aesthetic theories of the art.

Prerequisites: ENG23, ENG24 or ENG25

ENG 111: Bible as Literature

This course offers a study of the Bible from a secular, literary perspective. The Bible contains an astonishingly rich variety of genres including narrative fiction, history, lyric poetry, wisdom literature, prophecy, parable, apocalyptic writing, and letters. Students in this course will gain a deeper understanding and appreciation of this extremely important and influential part of Western literary heritage.

Prerequisites: ENG23, ENG24 or ENG25

ENG 118: Current Themes in Literature: Native American Writers

This course explores Contemporary Native American writers and their storytelling techniques. This course will put the literature of contemporary Native American writers into conversation with other Native meaning makers such as bloggers, journalists, comedians, and musicians, as well as representations of Native peoples in popular culture.

Prerequisites: ENG23, ENG24 or ENG25

ENG 119CTVL: American Genre Film

A genre approach to film study designed to introduce the general student to basic concepts in film criticism, aesthetics and history.

Prerequisites: ENG23, ENG24 or ENG25

ENG 120WI: Current Themes in Literature: Apocalyptic Fiction

This course explores fiction about global catastrophes and the struggle to survive and rebuild civilization following them. This course is aimed at non-majors and fills basic literature requirements.

Prerequisites: ENG23, ENG24 or ENG25

ENG 121: Current Themes in Literature: Science Fiction In The 20th Century

Critical analysis, interpretation, and evaluation of modern science fiction, novels and shorter works.

Prerequisites: ENG23, ENG24 or ENG25

ENG 122WI: Current Themes in Literature: The Literature of Peace

An analysis of representative peace-oriented writings of various cultures from ancient times to the present as evidenced in poetry, drama, fiction, and non-fiction.

Prerequisites: ENG23, ENG24 or ENG25

ENG 123CT: Current Themes in Literature: American Writers and the Environment

This course uses an Ecocritical approach to representative works in American literature that contemplate nature and reflect on humans' relationship to the natural world. This course is suitable for both majors and non-majors.

Prerequisites: ENG23, ENG24 or ENG25

ENG 124: Current Themes in Literature: American Folklore

This course provides students with an introduction to the major genres of folklore, with an emphasis on American folklore. The relationship between folklore and written imaginative literature is explored. Each student is required to engage in one major collection project.

Prerequisites: ENG23, ENG24 or ENG25

ENG 125WI: Current Themes in Literature: Detective Fiction

This course teaches critical analysis, interpretation, and evaluation of novels and stories of detection. This course is aimed at non-majors and fills basic literature requirements.

ENG 126WI: Current Themes in Literature: Sports in Literature: An Examination of a Public Metaphor

This course offers literary analysis of works which employ sports as a metaphor for the human condition, its social behavior, and the roles of men and women within it. The authors represented include: Robert Coover, Bernard Malamud, Philip Roth, Don DeLillo, Rita Mae Brown, John Updike, Harry Crews, William Faulkner, Ernest Hemingway, Norman Mailer, David Mamet, and Samuel Beckett.

Prerequisites: ENG23, ENG24 or ENG25

ENG 127CTWI: Current Themes in English: Ghost Stories

This course examines the ghost story as a literary genre from its earliest manifestations in myth and legend through contemporary times, including local ghost lore of the Kutztown area.

Prerequisites: ENG23, ENG24 or ENG25

ENG 128: Current Themes in Literature: The Thriller

This course introduces students to popular novels best categorized as thrillers. Thrillers feature heart-gripping suspense and heroic people struggling to survive and often save lives or even the world. Students will read and discuss representative novels from such sub-genres as psychological thrillers, supernatural thrillers, spy thrillers, and military thrillers. Some may be current, while others may be of historical interest, as well. Students may also be asked to watch and discuss films that are categorized as thrillers. This course is particularly for non-majors who need to fulfill a general education humanities requirement.

ENG 129CDWI: Current Themes in Literature: Jazz Culture

This course explores the special relationship shared by Jazz and Literature. The course will put the literature about jazz culture into conversation with jazz music, jazz film, jazz dance, jazz theater, and other jazz arts.

Prerequisites: ENG23, ENG24 or ENG25

ENG 131: Current Themes in Literature: The Small Town in Literature

The course examines the small town, its attitudes and inhabitants in novels, poetry and drama. Focus is on American writing but some world classics will also be studied.

Prerequisites: ENG23, ENG24 or ENG25

ENG 132CDCT: Contemporary Gay and Lesbian Literature

This course will focus on contemporary gay and lesbian literature with an emphasis on fiction written after the 1969 Stonewall riots. As a relatively new field of literary studies, gay and lesbian literature represents a wide, creative and challenging oeuvre. Novels, poetry, and drama written by and/or about gay men and women will be examined in connection with identity and gender politics, social movements, camp, feminist and queer theory, and the influence of the AIDS epidemic.

Prerequisites: ENG23, ENG24 or ENG25

ENG 135CDWI: Contemporary African Novel

Contemporary African Novel will introduce students to a broad sampling of novels written originally in English or translated into English, from Amos Tutuola's *My Life in the Bush of Ghosts* (1954) to the present.

Prerequisites: ENG23, ENG24 or ENG25

ENG 136CDWI: Contemporary African Poetry and Drama

Contemporary African Poetry and Drama will introduce students to a broad sampling of poetry and drama from Africa, written in English or in English translation.

Prerequisites: ENG23, ENG24 or ENG25

ENG 137CDCT: Experiences in African American Literature

Students of this course will be challenged as they intensively survey the oral and literary tradition of literature and music written and performed by African Americans from the eighteenth century to the present. Students will read works in different literary and musical genres as they survey African-American literature from its beginnings through the 21st century—poetry, prose, slave narratives, and fiction—including the corresponding history that encourage the literary production and movements in and by Black Americans.

Prerequisites: ENG23, ENG24 or ENG25

ENG 138: Literature Banned in Iran

Inspired by *Reading Lolita in Tehran: A Memoir in Books* by Azar Nafisi, this course will study some of the works read in secret by Nafisi and her students. These works, banned by authorities in Iran as "corrupt," include some of the masterworks by Vladimir Nabokov, F. Scott Fitzgerald, Henry James, Emily Bronte, and Jane Austen. The class will apply multiple lenses to the works: those of traditional Western critics and those of Dr. Nafisi and her students. This course may be used in general education.

Prerequisites: ENG23, ENG24 or ENG25

ENG 139CTWI: Current Themes in Literature: Literature and Psychology

In this course, students will use concepts from contemporary psychology to analyze literary works from a variety of genres. Approaching literature through psychology can add greatly to our understanding of literary creation and consumption, and it can teach us about social dynamics and human motivations. This course will consider how authors create their identities, how literary works change our ways of thinking, and how the exchange between literature and psychology increases our understanding of human nature.

Prerequisites: ENG23, ENG24 or ENG25

ENG 141CTVL: Literature and Film

Designed to give the student an opportunity to consider the similarities and dissimilarities between literature and film. The focus for such a consideration is several literary works that have been made into films or upon which films have been based. Specific attention is given to structural aspects common to both, such as imagery, language, theme, and point of view. Critical theories relevant to literature and film provide the student with additional areas of study.

Prerequisites: ENG23, ENG24 or ENG25

ENG 145WI: The Fairy Tale

Why do we still care about fairy tales? What makes them so popular and so relatable to our modern lives? To answer these questions, this course examines classic fairy tales, from their earliest oral and written roots to current representations and transformations. It explores the origins of fairy tales and traces their continual evolution in response to their cultural settings. We will study a number of individual tales in depth, read fairy tales and poetry by contemporary authors, and view films that both depict traditional tales and re-interpret them.

Prerequisites: ENG23, ENG24 or ENG25

ENG 219CTVL: Culture and Media

A course designed to apply a group of diverse texts in cultural criticism and theory to the discursive practices of particular media, specifically public relations and advertising.

Prerequisites: ENG23, ENG24 or ENG25

ENG 221: Jane Austen: Early Woman Novelist, Modern Media Property

This course examines the work of Jane Austen in her multiple roles as the pioneering woman novelist of two centuries ago, the major canonical novelist she became recognized as in the twentieth century, and the living presence in contemporary culture that she remains. Approaches will include historicist, feminist, and multimedia.

Prerequisites: ENG23, ENG24 or ENG25

ENG 222: Conventions of English Grammar

This course surveys the fundamentals and conventions of English grammar and syntax. Topics include lexical categories, phrase structure, clause structure, modification, subordination, punctuation, and language acquisition. Additional attention is given to stylistic concerns in order to sharpen students' prose. This course is recommended for those pursuing degrees in Professional Writing, English, Elementary Education, and Secondary Education/English although it is open to any student wishing a deeper understanding of English grammar.

Prerequisites: ENG23, ENG24 or ENG25

ENG 225CDWI: Teaching of Adolescent Literature

This course will include the study of several classic literary works commonly read by high school students but will focus more intensively on the study of modern and contemporary works written for adolescents.

Prerequisites: ENG 23, 24, or 25 and BA English & BSED Secondary Education majors only.

ENG 227: American Poetry in the Long 1960's

This course is devoted to analysis of poetry and poetics written by American authors during the period currently referred to as the long nineteen-sixties, encompassing the late-nineteen-fifties' intensification of the Cold War through the mid-nineteen-seventies, when the Vietnam War and the Watergate hearings drew to a close. Students will read closely a wide variety of poetical forms, both free verse and conventional, produced by authors associated with numerous schools and movements, including (though not limited to) the Beats, the confessional poets, the New York School, the language poets, and the Black Arts Movement. Students will examine significant poetics theory produced during the period, and will discuss those theories alongside of popular cultural appropriations of poetical form. Students will read canonical and non-canonical texts, and will think through the texts' social, political, and aesthetic contexts, situating the works within two turbulent decades of American culture.

Prerequisites: ENG23, ENG24 or ENG25

ENG 230WICT: Advanced Composition

This course invites students to examine and practice writing as an essential tool for exploring, questioning, and creating knowledge in academic, professional and public spaces. Through advanced study in genre conventions, rhetorical tools, grammatical choices and style, students will be better prepared to analyze and respond to academic, professional or public writing tasks. Students will practice sustained research, close reading, deep revision and reflection on writing processes.

Prerequisites: ENG23, ENG24 or ENG25

ENG 233: Contemporary Fiction

This course examines representative contemporary fiction, both American and international, from about 1990 through the present. Topics covered include the development of contemporary fiction, the use of traditional and new literary approaches and strategies of representation in contemporary fiction, themes and motifs found in contemporary fiction, and the historical and cultural contexts of these literary works and themes.

Prerequisites: ENG23, ENG24 or ENG25

ENG 234: Ethnic American Literature

This course is an introduction to selected literary writings by 20th-century Asian-American, Native American, and Latino authors, with a critical survey of major themes as well as narrative techniques and strategies.

Prerequisites: ENG 23, 24 or 25 and BA English, BSED SEU English, Multicultural Studies minor only; other majors contact your home department for more information.

ENG 235CTWI: The American Autobiography

The American Autobiography treats a broad spectrum of 18th to 20th-century autobiographies which are characterized by a great diversity in technique, theme, and authorial background.

Prerequisites: ENG23, ENG24 or ENG25

ENG 236: Black American Literature: Poetry/Drama

An exploration of the poetry and drama of Black Americans, beginning with Phillis Wheatley and William Wells Brown as precursors of the Black literary tradition, and ending with, as the focal point, contemporary poets and dramatists.

Prerequisites: ENG23, ENG24 or ENG25

ENG 237: Black American Literature: Novel

An exploration of the prose writings of Black American novelists and essayists, beginning with the slave narratives as prototypes and ending with, as the focal point, the latest contemporary novels.

Prerequisites: ENG23, ENG24 or ENG25

ENG 238: African Diasporic Literature

African Diasporic Literature will introduce students to a broad sampling of the literature written originally in French, Spanish, and Portuguese, and translated into English, by people of African descent dispersed in such places as Argentina, Brazil, Colombia, Cuba, Dominican Republic, Ecuador, Guadeloupe Haiti, Mexico, Peru, Puerto Rico, and Venezuela. These, and other, places where people tracing their descent to Africa reside, constitute the African Diaspora. The course will be found useful by students in English, Secondary Education, Modern Languages, Women Studies, and General Education.

ENG 239CTWI: Pioneering Pulp Fiction: British Working-Class Literature 1800-1860

This course will examine the literature, publishing history and rise of nineteenth-century British working-class fiction from 1800-1860, namely, working-class autobiographies, the Newgate novel and the penny dreadful. Sold by the chapter on street corners, the Newgate novel and the penny dreadful are the literary representatives of the Victorian working-class culture and were the only affordable literature available for the emerging literate of Victorian England. This literature of the streets grew so popular, it became the publishing phenomenon of the early nineteenth century and is experiencing an academic resurgence with contemporary interest in Victorian popular culture.

Prerequisites: ENG23, ENG24 or ENG25

ENG 242CTVL: International Cinema

This course is designed to explore the underlying structures of film as a communications medium and as an art form. This course will include both foreign and American films.

Prerequisites: ENG23, ENG24 or ENG25

ENG 244: Documentary Film and Theories of Representation

This course is a study of the documentary film genre, its history, and the theories of representation that have informed its different modes. Whether the intention of the documentary film or video is to preserve its subject, persuade the audience, or analyze a particular person or situation, students will consider the text from a number of perspectives, including that of the filmmaker, the film subject, and the viewer. In conjunction with documentary film history, students will read some of the theory that informs the production and analysis of this filmic genre. This course is suitable for both majors and non-majors.

Prerequisites: ENG23, ENG24 or ENG25

ENG 245: Aspects Of Language

ENG 246CDCT: Feminist Film Theory

In this course, students will investigate the intersections of feminist film theory and representations of women's experience in international film, as well as explore feminist film practices within the narrative, documentary and avant-garde traditions. (This course is also offered under the WST 246 designation.)

Prerequisites: ENG23, ENG24 or ENG25

ENG 247: Modern Latin American Literature in Translation

An in-depth study of outstanding Twentieth Century literary works of Latin American writers. The survey will include representative works from the major literary genres: novel, essay, short story, drama and poetry.

Prerequisites: ENG23, ENG24 or ENG25

ENG 253: German Literature in English Translation I

GER253 This course is an in-depth study in English translation of some outstanding works in German literature. It is devoted to German writers from Lessing to E.T.A. Hoffmann. Its sequel, ENG/GER 254, is a continuation of ENG/GER 253 and treats outstanding writers from Realism through the 20th century. Either semester may be taken independently.

Prerequisites: ENG23, ENG24 or ENG25

ENG 254: German Literature in English Translation II

GER254 This course is an in-depth study in English translation of some outstanding works in German literature from Realism through the 20th century. It is a continuation of GER 253. Either semester may be taken independently.

Prerequisites: ENG23, ENG24 or ENG25

ENG 255CD: Masterpieces of Russian Literature in English Translation I

This course entails an in-depth study in English translation of selected masterpieces of Russian literature. This course deals with Russian literature from Pushkin through Tolstoy.

Prerequisites: ENG23, ENG24 or ENG25

ENG 256CD: Masterpieces of Russian Literature in English Translation II

This course entails an in-depth study in English translation of selected masterpieces of Russian literature. This course deals with Chekhov, continues through Tolstaia and includes a survey of modern Russian poetry.

Prerequisites: ENG23, ENG24 or ENG25

ENG 257: Masterpieces of French Literature in English Translation I

This course entails an in-depth study of works from French literature selected for their humanistic character, their artistic quality and their present vitality. Primary emphasis is the appreciation of the innovative approach of each author to the universal themes of love and death, Man and Nature, Man's relation to God, war and peace, freedom and bondage. This survey will include representative works from the major literary genres: novel, essay, short story, drama and poetry (in English). The first semester (I) deals with French literature until 1800.

Prerequisites: ENG23, ENG24 or ENG25

ENG 258: Masterpieces of French Literature in English Translation II

This course entails an in-depth study of works from French literature selected for their humanistic character, their artistic quality and their present vitality. Primary emphasis is the appreciation of the innovative approach of each author to the universal themes of love and death, Man and Nature, Man's relation to God, war and peace, freedom and bondage. This survey will include representative works from the major literary genres: novel, essay, short story, drama and poetry (in English). The second semester (II) deals with French literature until 1800 to the contemporary period.

Prerequisites: ENG23, ENG24 or ENG25

ENG 260: Issues in Composition and Rhetoric Studies

This course provides undergraduate students an introduction to the history, traditions, issues, problems, and debates of Composition and Rhetoric Studies. Despite its long history and growing influence in academia, many students of English are unfamiliar with the depth and breadth of the field of Composition and Rhetoric. It is the goal of this course to familiarize undergraduate students with the historical development of Composition and Rhetoric Studies and the shape of the field today. This course will include inquiry into the major theoretical, professional and disciplinary issues and challenges of the field. The course also provides an introduction to research methods and resources in Composition and Rhetoric, as well as experience writing academically in and about Comp / Rhet Studies.

Prerequisites: ENG23, ENG24 or ENG25

ENG 265CPWI: Research Writing in the Humanities

This course provides advanced study of research and research writing in the humanities that will inform students' work across disciplines, professions, and contexts. Moving beyond the basics of using search engines, students will develop information literacy as they navigate databases and web spaces, closely read academic studies from across disciplines, and interpret visual representations of data. The course moves beyond "library research," as students conduct first-person research, such as ethnography, case study, oral history, interview, or survey. Students will draft, revise, and present their original research. This course is an elective in the English major.

Prerequisites: ENG23, ENG24 or ENG25

ENG 270: Short Story

The development of the short story as a distinct literary type traced by means of wide reading and close analysis.

Prerequisites: ENG23, ENG24 or ENG25

ENG 272: Women and Violence in Contemporary World Texts

This course will investigate the complex relationship women around the world have with violence. Though formerly only regarded as those in need of protection, women who perpetrate violence have forced a shift in gender roles ascribed to violence. Looking at written and visual texts that depict women as both victims/survivors and perpetrators of violence will allow students to discuss the ways women's shifting role in violent movements and in texts has changed both the gender ideology and the political climate in a rapidly globalizing world. This course work will look at the ways women's relationship to violence is constructed and question ideas that women are "naturally" non-violent. While this course does not condone the use of violence, it does study ways women use violent tactics to resist oppression, enact revenge, and find a voice.

Prerequisites: ENG23, ENG24 or ENG25

ENG 273: The Age Of Elizabeth**ENG 274CDWI: Women, Writing and Rhetoric**

While the spoken and written word have long been studied for their rhetorical intent and success, this study has been conducted primarily through a male lens. As such, women's contributions to rhetoric throughout history, like so many other aspects of women's experience, have yet to be fully explored. Women, Writing, and Rhetoric seeks to expand the study of rhetoric with a multi-layered consideration of how rhetoric has been informed by, and informs, a female consciousness. This is an elective course for English majors, Women's Studies minors, and those seeking a concentration in Composition, Rhetoric, and Literacy Studies.

Prerequisites: ENG23, ENG24 or ENG25

ENG 275CDWI: Archetypal Women in Myth and Literature

This course emphasizes the archetypal images found in portrayals of women from Greek mythology to the present.

Prerequisites: ENG23, ENG24 or ENG25

ENG 276CDWI: Nineteenth Century Women's Literature

This course covers selected literary texts by nineteenth-century British and American women writers. It also focuses upon gender-specific conflicts and changing perceptions about the nature, roles, and rights of women during this important era in the history of literature by women.

Prerequisites: ENG23, ENG24 or ENG25

ENG 278: Women Writers Around the World

The focus of this course is modern and contemporary literature by women around the world. Students will read selected fiction, non-fiction and poetry, and examine these works primarily, but not exclusively, from the perspectives of Feminist Critical Theory.

Prerequisites: ENG23, ENG24 or ENG25

ENG 279: U.S. and Canadian Women Writers

This course explores some of the major U.S. and Canadian women writers from approximately 1880 to the present. Taking a multi-genre and multi-critical approach, students will study the important contributions U.S. and Canadian women authors have made and are making to modern and contemporary literature. This course is suitable for both majors and non-majors.

Prerequisites: ENG23, ENG24 or ENG25

ENG 283: American Modernists in London

To be offered as study-abroad in London course, American Modernists in London provides the opportunity to delve into a significant moment in literary history. At the turn of the twentieth century, London was seen as the capital of modern world culture, attracting America's most significant writers, including Henry James, Mark Twain, Stephen Crane, Bret Harte, Jack London, Robert Frost, Ezra Pound, H.D. and T. S. Eliot. Students will read works written by these writers while living in London, and they will visit and explore the places these writers frequented. The class will map the influence of turn-of-the-century London on the development of American identity at a pivotal historical moment. This course satisfies electives in the English major as well as General Education Humanities and LAS electives.

Prerequisites: ENG23, ENG24 or ENG25

ENG 285CTWI: Victorian Sensation Fiction

This course will examine the genre of Victorian popular novels known as Sensation Fiction. These novels thrilled and horrified the Victorian middle class readers with tales of sinister conspiracies, bigamy, murder, sexual scandals, and madness. Students will study the cultural role and unusual narrative forms of this subversive and pleasurable horrifying popular literature.

Prerequisites: ENG23, ENG24 or ENG25

ENG 300: History of the English Language

This course focuses on the origins and development of the English Language, tracing the changes in phonology, morphology and lexicon from its Indo-European roots through the modern period. Focus will be given to the Old and Middle English periods and the early modern era. This linguistic evolution will be considered against the background of relevant cultural and historical developments. Students will also become familiar with some basic concepts of international phonetics and the terminology of linguistics.

Prerequisites: ENG23, ENG24 or ENG25

ENG 314: Social Media Analytics

Students will learn how to collect, analyze, and derive insights from social media information. Students will also learn how to craft effective technical reports based on information generated from social media analysis. By examining and reporting effective strategies for creating social media content, students will become better at producing their own social media content, which is an increasingly important ability in a wide range of fields. Students will develop skills in using both freely available and industry-standard digital social media analytics tools.

Prerequisites: ENG 23 or ENG 24 or ENG 25 & sophomore status or permission of the instructor.

ENG 317CTWI: From Science to Séance: Pseudoscience and Spiritualism in Nineteenth-Century Literature

This course examines the nineteenth-century fascination with bizarre phenomena such as mesmerism, séances, and weird science of all kinds. Students will read British and American literary and theoretical texts that engage with contemporary scientific, pseudoscientific, and spiritualist theories and practices, including evolution, phrenology, and mediumship.

Prerequisites: ENG23, ENG24 or ENG25

ENG 321: Early and Medieval Literature

This course will explore some of the literature of the Middle Ages (ca. 500 - 1500) in translation. Readings will be drawn from the Anglo-Saxon period, the era of English and French romance, and the Middle English period. We will read in a number of genres, including epic, romance, fabliau, saga, and allegorical. Special focus will be given to Chaucer.

Prerequisites: ENG23, ENG24 or ENG25

ENG 323: Native American Women Writers

This course provides undergraduate students an introduction to selected Native American Women Writers across several genres. Students will experience a variety of writings which move across traditional boundaries (such as nonfiction, poetry, fiction, theory, activist, and so on). The course also provides students an opportunity to consider Indigenous Feminism in theory and practice. Students will consider issues of gender, identity, cross-cultural understanding, individuality and community by intellectually engaging with the texts and performances of Native American women.

This class may also include the opportunity for digital storytelling, blogging, interviewing, and community engagement.

Prerequisites: ENG23, ENG24 or ENG25

ENG 324: Eliz & Jacobean Drama

ENG 325: Seventeenth Century Literature

The writings of Browne, Burton, Donne, Marvell, Bunyan, and Milton studied within the framework of English life from 1600 to 1675.

Prerequisites: ENG23, ENG24 or ENG25

ENG 327: Eighteenth Century Literature I

Poetry, neoclassical literary criticism, and drama from 1660 to 1780 with consideration of central issues and prevailing attitudes reflected therein; emphasis on major writers.

Prerequisites: ENG23, ENG24 or ENG25

ENG 328: Eighteenth Century Literature II

This course addresses English literature of the eighteenth century, primarily but not only prose, especially the novel.

Prerequisites: ENG23, ENG24 or ENG25

ENG 329: Feminist and Gender Theories

This course provides an overview of the leading currents, issues, and debates in feminist literary theory, including gendered voice, difference vs. equality feminism, essentialism, and queer theory. Students will read theoretical and literary selections from nineteenth-, twentieth-, and twenty-first century feminists.

Prerequisites: ENG23, ENG24 or ENG25

ENG 330: Shakespeare on the Stage

A workshop, offered only in summer sessions, designed to supplement courses in Shakespeare with reference to the staging and performance of Shakespeare's plays. The course is based on reading and examining selected plays through the use of videotapes, films, and available staged performances at summer theatres.

Prerequisites: ENG23, ENG24 or ENG25

ENG 331CTWI: Shakespeare's Earlier Plays

A study of a selection of Shakespeare's earlier plays, including among others, The Comedy of Errors, Richard II, Richard III, Henry IV Parts I and II, Henry V, Romeo and Juliet, Much Ado About Nothing, As You Like It, and Twelfth Night, and of the social, historical, and literary background necessary for their understanding and appreciation.

Recordings, movies, and, when possible, "live" and TV productions are utilized.

Prerequisites: ENG23, ENG24 or ENG25

ENG 332CTWI: Shakespeare's Later Plays

A study of a selection of Shakespeare's later plays including among others, Hamlet, Othello, King Lear, Macbeth, Troilus and Cressida, the Winter's Tale and The Tempest, and of the social, historical, and literary background necessary for their understanding and appreciation. Recordings, movies, and, when possible, "live" and TV productions are utilized.

Prerequisites: ENG23, ENG24 or ENG25

ENG 333: Digital Rhetoric and Writing

This course focuses on honing the analysis and production of contemporary digital texts by extending longstanding academic conceptions rooted in the printed word alone. Specifically, the course examines how emerging areas within Rhetoric and Composition such as visual rhetoric, digital writing, and multimodal style are vital in cultivating sophisticated, responsive methods of analysis and production in a variety of online texts. Students will familiarize themselves with issues surrounding the creation, revision, and deployment of digital texts to better understand the complex rhetorics involved when arranging words, images, sounds, coding languages, available designs, fonts, colors, and spaces to make new kinds of 21st century texts and arguments.

Prerequisites: ENG23, ENG24 or ENG25

ENG 334: Introduction to English Linguistics

A comprehensive study of the grammar of American English: its sound system, its morphological system, and its syntax from the structural and generative-transformational standpoints.

Prerequisites: ENG23, ENG24 or ENG25

ENG 335: The Rhetoric of Literature

Cooperative investigation of the relationships between literature and rhetoric. Selected works of major literary figures will be examined with reference to their persuasive power and their ability to produce attitude change.

Prerequisites: ENG23, ENG24 or ENG25

ENG 337: HON: Gothic/Horror Literature

This course examines the history of Gothic literature from the late-eighteenth century Gothic romance to southern American Gothic fiction and the recent Gothic revival. Representative works, their distinguishing features, their recurrent themes and motifs, their social, psychological and rhetorical implications are also examined.

Prerequisites: ENG23, ENG24 or ENG25

ENG 338: HON: Crime and Punishment in Literature

This is a course in which students participate in critical analysis and interpretation of an international selection of classic works of literature from Greek drama to modern absurdist stories that create the theme of crime and punishment.

Prerequisites: ENG23, ENG24 or ENG25

ENG 339: New Media, Story, Change

This course investigates the crucial role that story plays in creating impactful campaigns within new and emerging media environments. Particular attention will be paid to the ways in which story continues to be one of the most important rhetorical tools in community and social movements seeking change. Readings will draw from a wide range of disciplines including rhetoric, literacy studies, marketing, public relations, communication studies, social media theory, cognitive psychology, and social movement studies.

Prerequisites: ENG23, ENG24 or ENG25

ENG 340CTWI: Romantic Movement

The works of Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries in the light of social background, biography, and critical doctrine.

Prerequisites: ENG23, ENG24 or ENG25

ENG 341CDWI: Introduction to Afro-Caribbean Literature

Students of Introduction to Afro-Caribbean Literature study various genres and authors from West Indian countries, including Cuba, Haiti, Martinique, Jamaica, and Trinidad. Authors' works were originally written in English or translated into English. While students will examine selected Afro-Caribbean texts from within the traditional model of literary criticism, including writing style and skill, content significance, and thematic representation, they will also engage the text's informing agents, including the critical, socio-political, cultural, and historical motivations that influence the authors' texts.

Prerequisites: ENG23, ENG24 or ENG25

ENG 343CTWI: Nineteenth Century Studies: Poetry 1840-1890

The major Victorian poets, Browning, Tennyson, and Arnold, are studied in detail, and certain minor poets are examined.

Prerequisites: ENG23, ENG24 or ENG25

ENG 344CTWI: Nineteenth Century Studies: Prose 1840-1890

Study of representative prose works in the novel and the essay.

Prerequisites: ENG23, ENG24 or ENG25

ENG 345: Rhetoric, Democracy, Advocacy

The connection between rhetoric and democracy is an old one dating back to the origins of both concepts in Western traditions. Simply put rhetoric the skilled use of argument and persuasive discourse and democracy were seen as ways to replace violence as the primary means of governing and maintaining social order. However, the connections between democracy and rhetoric may not be immediately apparent indeed the two may appear to be in opposition in contemporary society. This course argues that the intimate connections between rhetoric and democracy are critical to retain and reclaim for the health of democratic society and culture. In the era of globalization and digital media these connections are even more important. A healthy democracy requires citizen advocates who are skilled in the analysis of public discourse as well as in the production of persuasive texts.

Prerequisites: ENG23, ENG24 or ENG25

ENG 347: Activists Writing Media: Composing Democratic Futures

The early twenty-first century has seen an explosion in the development, re-purposing, and critical use of new media by political activists. Unlike theoretical debates regarding the relative merits of new media compared to more traditional media or the vigorous business interest in “web 2.0” for its marketing possibilities, activists have approached new media in a rhetorical fashion. For activists, new media are part of the “available means” with which political organizing and campaigning take place. This course explores the multiple and complex ways in which activists have made use of and rewritten what counts as media, who counts as an authorized writer, and even what counts as writing. The course will investigate examples of activist campaigns, emergent theories of literacy, and the role of literacy training for the development of activists and how this is often at odds with the literacy instruction students receive in secondary and post-secondary schooling.

Prerequisites: ENG23, ENG24 or ENG25

ENG 348WI: CONTEMPORARY DRAMA

Contemporary Drama examines works in English of the previous twenty years. The course includes original plays written in English, translations of plays from other languages into English, as well as new interpretations of revived works. The course discusses themes and subjects in plays relevant to contemporary life: the portrayal of politics, economics and business, treatment of the individual and family, philosophy, religion, sexuality, gender, ethnicity and race, for some examples. The course will also note developments in and illustrations of dramatic theories.

Prerequisites: ENG23, ENG24 or ENG25

ENG 350CTWI: The Times of Melville and Whitman

A study in depth of Melville and Whitman as creative forces in the shaping of American poetry and prose. Consideration is given to the cultural background from which their works derive.

Prerequisites: ENG23, ENG24 or ENG25

ENG 351CTWI: American Literary Realism: 1865 - 1910

This course will focus on an analysis of Regionalism, Realism, and Naturalism in American literature between 1865 and 1910. Special attention will be paid to the works of Mark Twain, Henry James, Kate Chopin, Stephen Crane, and New England Regional writers.

Prerequisites: ENG23, ENG24 or ENG25

ENG 353CTWI: Development of the Drama

A comprehensive study of world drama from its beginnings to the late 19th century.

Prerequisites: ENG23, ENG24 or ENG25

ENG 354: Literacy Studies

This course provides undergraduate students with an introduction to the field of Literacy Studies, including its scientific and theoretical foundations, historical and current perspectives on literacy practices, research methods, and implications for teaching reading and writing. A special emphasis is placed on digital literacies. This course is aimed at deepening and complicating students' understandings of literacies, as they learn to investigate personal and community assumptions about reading and writing, conduct primary and secondary research, and consider the consequences of Literacy Studies for learning, teaching and critically navigating culture. This is an elective course for the undergraduate English major.

Prerequisites: ENG23, ENG24 or ENG25

ENG 355: Development of the Novel

The evolution of the world novel traced from its beginnings to World War I.

Prerequisites: ENG23, ENG24 or ENG25

ENG 357: HON: Gerard Manley Hopkins: Poetry and Prose as Spiritual Autobiography

This course provides a comparative and intertextual analysis of the poetry and prose of Gerard Manley Hopkins as spiritual autobiography with a focus on his perspective of the Anglo-Gaelic milieu of the late 19th/early 20th century.

Prerequisites: ENG23, ENG24 or ENG25

ENG 358: The Rhetoric of Style

This course focuses on understanding historical and contemporary rhetorical conceptions of style in order to foster more sophisticated invention, analysis, and production of 21st century compositions. Specifically, the course examines the idea of style from its ancient understandings rooted in orality up to modern iterations rooted in multimodal composition and digital writing.

Prerequisites: ENG23, ENG24 or ENG25

ENG 360CTWI: Contemporary British and Irish Literature

British and Irish poetry, drama, and prose fiction since 1965 analyzed in form and content with special attention to the relationship of literary techniques, and cultural, historical, and theoretical context.

Prerequisites: ENG23, ENG24 or ENG25

ENG 361: Tolkien and Lewis

J.R.R. Tolkien has been called "the Author of the 20th Century," and C.S. Lewis is likewise one of the best known names among literary and academic figures of the last 100 years. The main goal of this course is to try to explain why two rather marginalized Oxford professors now appear, posthumously, as dominant literary figures for their generation and succeeding ones. While the main concentration will be on the works of Tolkien and Lewis, and their impact on twentieth and twenty-first century fiction, we will also consider the circumstances of their lives and friendship with each other and the group known as the Inklings.

Prerequisites: ENG23, ENG24 or ENG25

ENG 363WI: Modern Drama

Reading and analysis of selected plays from the time of Ibsen to the present, thus providing a comprehensive view of the best dramatic literature of the Modern American, British, and European theatre since 1870. Recordings, television productions, and stage performances are incorporated whenever possible.

Prerequisites: ENG23, ENG24 or ENG25

ENG 364CTWI: Modern Poetry

Representative poetry published since 1870 in England and America as the basis for a study of forms, aspects, and tendencies in contemporary verse, with particular reference to poetry as a criticism of modern life.

Prerequisites: ENG23, ENG24 or ENG25

ENG 365CTWI: Modern Novel

Studies of the world novel since World War I.

Prerequisites: ENG23, ENG24 or ENG25

ENG 366CTWI: Cultures of American Modernism

Defining American Modernism as the cultural response to rapid social changes brought on by innovations in technology and shifts in the global economy, this course examines the interplay between key literary texts, popular texts, social issues, and events that shaped early twentieth-century Americans' sense that they were living in a changed world. Some of the social issues open to exploration may be gender, race, psychology, social Darwinism, the breakdown of traditions, mass culture vs. literary form, and the mechanization of modern life.

Prerequisites: ENG23, ENG24 or ENG25

ENG 367: Symbol and Theme in 20th Century American Literature

Symbol and theme as used by representative major American poets, dramatists, and novelists of the Twentieth Century.

Prerequisites: ENG23, ENG24 or ENG25

ENG 368WI: Postmodern American Fiction

This course examines postmodern American fiction from its beginnings around the middle of the twentieth century to the present. Topics covered include the relationship of postmodernism to modernism; the specific characteristics of postmodern fiction and the worldview underlying those characteristics; and the question of the "end" of the postmodern period.

Prerequisites: ENG 100

ENG 370: Seminar: Selected Topics in English

A course for students who wish to study the work of a particular literary figure or a special topic in language, literature, or communications in depth. Students may register for this course more than once up to a maximum of six semester hours of credit, so long as they do not repeat the same topic; however, they may take no more than three hours of credit in any given semester.

ENG 371: Independent Study

A course for students who wish to study the work of a particular literary figure or a special topic in language, literature, or communications in depth. Students may register for this course more than once, up to a maximum of six semester hours of credit, so long as they do not repeat the same topic.

Prerequisites: ENG23, ENG24 or ENG25

ENG 373: Native American Writing and Rhetoric

This course provides undergraduate students an introduction to selected rhetorical strategies, techniques, and tactics of contemporary Native American peoples in four genres: creative nonfiction, stand-up comedy, journalism, and music. The course also provides students an opportunity to research how certain Native American writers, thinkers, performers, artists, or speakers carve space for their voices in the crowded space of modern intellectual thought and practice. Students will consider issues of identity, cross-cultural understanding, individuality and community as they learn to recognize and practice accretive thinking, rhetorical sovereignty, and argument through imaginative storytelling by intellectually engaging with the texts and performances of indigenous practitioners. This class may also include the opportunity for digital storytelling, blogging, interviewing, and community engagement.

Prerequisites: ENG23, ENG24 or ENG25

ENG 379CTWI: Literary Theory

This course examines the major critical and theoretical texts of western civilization along with the major modern critical approaches to the study, interpretation, and evaluation of literature, and applies such theory to literary works from primarily western writers. This course explores a number of questions and issues that are central to literary studies.

Namely, what is literature? What is the function of literature? Is it an aesthetic object that embodies universal truths or a socially constructed text that participates in the cultural discourses and power relations that create it. How do we analyze and evaluate literature in terms of what it represents? What is the role of the literary critic? Are there correct and incorrect ways to read literature? What is the relationship between writers, readers, society, and literature? What do our individual understandings of literature say about each of us as writers, readers, teachers, and literary scholars?

Prerequisites: ENG 100

ENG 380: Senior Seminar in English

A study of special topics in English and American Literature in preparation for the comprehensive examination. Required of all students in the B.A./English General program.

Prerequisites: ENG23, ENG379, at least 75 overall credits & 33 SH of ENG course work

ENG 382: Film Production Theory

This is a course that uses concepts in Film Theory and Criticism to guide students in the production of a short narrative film. After an intensive study of theoretical and stylistic models found in the work of contemporary and past master film makers, students working collaboratively in groups will produce, script, shoot, and edit a short fictional film on digital video. In this course, students will explore how each filmmaker can act as a role model to embody a distinct point of view expressed in the audio-visual language of cinema; students will similarly learn how to embody their own viewpoint through the medium of film.

Prerequisites: Take ENG 23, 24 or 25, or the permission of the instructor and one of the following courses: ENG 100, 119, 141, 219, 242, 244, 246, 379, WRI 208, 212, 213, 340

ENG 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

ENG 398: See Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

Prerequisites: ENG23, ENG24 or ENG25

ENG 430: Rhetorical Traditions and Contemporary Renditions

This course studies the histories of rhetoric as well as contemporary intersections and applications across disciplines. Depending on the particular interests of the professor, one or more specific area(s) such as media, popular culture, sciences, feminisms and gender studies, composition studies, literary theories, literacies, global issues, pedagogy, arts, and political discourse will be chosen for a more detailed study. Critical to the course are the writing assignments that allow students to examine issues in more depth and explore alternative rhetorical stances and situations.

ENG 438: Major Modern Dramatists

This course is a brief critical survey of British and American drama of the twentieth century with primary focus on the work of such major figures as Shaw, O'Neil, O'Casey, Miller, Williams, Albee and Pinter.

Prerequisites: ENG23 or its equivalent, 90 SH earned overall, or Graduate level status

ENG 470: Selected Topics in English

This course will deal in depth with a specific issue or area in English or a literary figure not covered or only covered briefly in another graduate English course. The course may be taken up to two times (6 credit hours), provided that the selected topic is different.

Prerequisites: ENG23, ENG24 or ENG25

ENG 493: The Twentieth Century British Novel

Comparative studies of selected works of Joyce, Lawrence and Woolf. Analysis of symbol and archetype as structural and thematic device. Rhetorical comparison of elements of style.

Prerequisites: ENG23 or its equivalent, 90 SH earned overall, or Graduate level status

ENU 405WICT: Teaching Writing

This course focuses on the roots of composition in classical rhetoric, research into composition problems and devices and techniques that lead to effective instruction in composition.

ENU 407: Teaching Literature

This course focuses on the understanding of the various forms, their development and proliferation, along with instruction in newer methods of teaching literature at the high school level.

Environmental Science

ENV 35: Powering Our Future: Energy, Climate Change, & Society

This course introduces our past, present, and future sources of energy and their advantages and limitation. Society's non-sustainable pattern of energy use from both a supply and environmental perspective will be discussed including the impacts of climate change. The technical, environmental, political, and societal problems associated with the eventual conversion to renewable energy resources will be investigated. A global perspective for the delicate interplay between energy and society will be gained. This course does not satisfy major, minor, or specialization requirements for Secondary Education and/or Liberal Arts Science Majors.

ENV 100: Introduction to Environmental Science

A multi-disciplinary introduction to environmental problems and their potential solutions. Lecture and laboratory work are supplemented by field trips.

Prerequisites: Restricted to Environmental Science majors. Please check with the Biology department if you believe you should be allowed to take this course for your major/minor.

ENV 210: Environmental Geology

A study of the relationship between man and his geological habitat. Problems that society faces in using the earth are examined, including case histories of natural disasters and human interactions with earth materials. Geo-chemical cycles, geological materials, and land use will be examined as they relate to environmental quality.

Prerequisites: GEL 100 - 101

ENV 220QLWI: Environmental Analysis

Qualitative and quantitative methods of analytical chemistry are explored by utilizing a "hands-on" approach applied to a variety of environmental samples. The course focuses on the basic components of each analytical technique or instrument, their range of environmental applications, their advantages and limitations, and the physical and chemical phenomena which form the basis of the analytical method. Basic sampling plans and designs are also discussed due to their complementary nature.

Prerequisites: CHM 102

ENV 222WI: Environmental Biology

An introduction to the causes and symptoms of environmental deterioration. The effect of ecological perturbations on ecosystems especially the biota. Field experiences are an integral part of the course.

Prerequisites: Take BIO 104 with a "C" or better and either BIO 106 or BIO 108 or permission of the department chairperson.

ENV 224: Applied Environmental Microbiology

This is an introductory microbiology course emphasizing prokaryotic functional anatomy, metabolism, and genetics. Principles of diseases and a basic introduction to immunology are included which provide a background for an overview of a variety of common diseases. Applied and environmental aspects of food, soil, and water microbiology are stressed in both the lecture and the laboratory. The laboratory is an integral portion of the course and emphasizes laboratory techniques, physiological testing, food and water analysis, and identification of unknowns.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

ENV 370: Research in Environmental Science

This course involves laboratory work and/or a field study and/or library research on a selected topic in environmental science. The work will be supervised by one or more faculty members associated with the Environmental Science Program. The research topic will be acceptable to both the supervising faculty and the student. A written proposal outlining the research project must be submitted to the supervising faculty member's Department Chairperson.

Prerequisites: 18 SH of core or common courses in Environmental Science major, consent of the instructor, and the approval of the supervising faculty member's department.

ENV 380: Senior Seminar in Environmental Science

An interdisciplinary seminar devoted to the analysis of selected environmental problems.

Prerequisites: Senior standing or permission of the department.

ENV 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

ENV 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

Finance**FIN 200: Introduction to Finance**

The course introduces students to the field of finance. The three areas of focus are financial management, investments, and financial markets and institutions. Recurring themes include shareholder wealth maximization, the risk/return tradeoff, and the continuing evolution of the financial system.

Prerequisites: Open to College of Business minors with ACC 121 and ECO 10

FIN 350QL: Financial Management

This course introduces students to the types of issues faced by financial managers and the techniques available to make the best possible decisions. The primary goal of shareholder wealth maximization, as well as the constraints under which management must operate when pursuing this goal, are emphasized throughout the course. The course also provides thorough treatment of the analysis of financial statements, time value of money, stock and bond valuation, capital budgeting, and the management of working capital. The application of spreadsheet modeling to all of these areas is stressed.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses.

FIN 351: Personal Financial Planning

This course takes an integrated approach to the management of personal financial resources. Topics include investments, taxation, insurance, retirement planning, and estate planning. The course emphasizes the process of preparing a comprehensive financial plan and helps to prepare students for careers in the financial services industry.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses.

FIN 354: Investments

The course covers various financial instruments including common stocks, bonds, stock options, and futures. We also discuss various security selection techniques including risk return tradeoff, security analysis, and implication of market efficiency on investment strategy and asset allocation among various financial instruments. The course is rigorous and approaches the subject from the point of view of investment practitioners.

Prerequisites: Finance 350

FIN 355: Investment Portfolio Management

This is an advanced course in theory and application of portfolio management techniques. Topics include active and passive portfolio management, portfolio performance evaluation, bond portfolio management, portfolio insurance and hedging using derivative securities, and international diversification. Students also manage and evaluate stock portfolios.

Prerequisites: Open to College of Business majors (excluding Sport Mgm) with a 2.0 in the Core course work and FIN 354 (Investments) and MAT 122 (Applied Calculus) or MAT 181 (Calculus 1)

FIN 356: Working Capital Management

A course focusing on the theoretical and practical aspects of managing the short-term assets and liabilities of a wealth-maximizing firm. This course utilizes lectures, cases, and spreadsheet exercises. Topics include: cash management, credit and collections, working capital financing, and inventory management.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and FIN 350.

FIN 360: Financial Markets and Institutions

This course examines the various financial markets and institutions that facilitate the trading of financial assets. Recurring themes include the history, regulation, internationalization, and management of these markets and institutions. In addition, the course provides insights into how current events are influencing the evolution of the financial system.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and FIN 350.

FIN 363: Intermediate Financial Management

The course focuses on development of a comprehensive understanding of risk-return models, financial options models, financial planning and forecasting, the cost of capital calculations, capital budgeting analysis including capital budgeting under risk and real options, and capital structure and dividend policy decisions. In addition, value based management, sources of long term financing for corporations including stocks, bonds, hybrid securities, and leasing are discussed. The course is structured around case studies and application of spreadsheets for analyzing the cases.

Prerequisites: FIN 350 and either MAT 122 or MAT 171

FIN 365: Multinational Financial Management

This course focuses on the international dimensions of financial management. All of the traditional areas of corporate finance are explored from the perspective of a multinational corporation, including working capital management, capital budgeting, cost of capital, financial structure, funds acquisition, investment evaluation, and risk analysis. This course emphasizes the unique decision variables faced by multinational firms, including: multiple currencies with exchange rate changes, differing tax systems, multiple money markets, cross-border restrictions, varying international diversification opportunities, segmented capital markets, and political risks such as nationalization or expropriation. Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and FIN 350.

FIN 371: Selected Topics In Finance

FIN 371 Selected Topics in Finance 3 sh This course allows students to study topics of current interest that are not covered in other finance courses. It also allows students additional time for more in-depth study of topics that are covered in other courses. The topic(s) covered will be announced each time the course is offered.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and FIN 350.

FIN 375CTWI: Applied Investment Management

A small group of students, guided by a faculty member, manage a portfolio of stocks with the goal of generating an above average, risk adjusted return. The students apply financial analysis techniques and portfolio management principles learned in this and other business courses to the management of a stock portfolio. Funding for the portfolio has been provided by the Kutztown University Foundation. Additionally, the course includes an overview of the value investing philosophy and analysis techniques originally codified by Benjamin Graham and later practiced by Warren Buffet. This course has been approved for two competencies: CT and WI. Course may be taken twice for a total of 6 credits.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and FIN 350.

FIN 379: Independent Study in Finance

The independent study allows for individualization of the Finance curriculum to meet the specialized needs/interests of students through studies outside the focus of existing courses. Under the direction of a faculty member from the Accounting & Finance Department, the student will investigate an area of academic interest, to be approved by the department.

Prerequisites: FIN 350 plus six credits of upper-level Finance courses and 2.5 QPA or above.

FIN 380: Senior Seminar in Finance

FIN 380 Senior Seminar in Finance 3 sh The course is designed to enhance the student's understanding by detailed discussion of practical concepts in financial management. It increases students' financial decision making capability via financial simulation game. During the course of the game, students make capacity expansion, capital budgeting, stocks and bonds issuance and retirement, dividend payment, and working capital management decisions for their companies. Students' decisions interact with simulation's economic environment to determine stock price of their companies and give them real feel of the goal of stockholders' wealth maximization. In addition, students develop research capability by an in-depth empirical research on a topic of their choice.
Prerequisites: Open to Finance majors with Finance 363 & Business 320 or Economics 345

FIN 385: Insurance Planning

This course focuses on the types of risks faced by individuals and owners of closely held businesses. It examines the various techniques available to manage identified risks. The course also covers the principles of insurance and the workings of the insurance industry. Topics include life, health, disability, long-term care, and property and liability insurance.
Prerequisites: Open to majors in the College of Business (excluding Sport Mgm and College of Business Minors) with a 2.0 GPA in the Business Core courses.

FIN 386: Retirement and Estate Planning

This course focuses on the process of creating and executing a plan that enables an individual to maintain their desired standard of living in retirement. It also examines the process of developing a plan to distribute an individual's assets after death in a manner consistent with their wishes and the needs of their beneficiaries.
Prerequisites: FIN 351

FIN 389: Financial Planning Capstone

Students learn how to integrate the components (e.g., insurance, investment strategy) and apply knowledge gained in previous Personal Financial Planning track courses to create a comprehensive financial plan in a manner that is consistent with the CFP Board's Financial Planning Practice Standards. Students also learn how to present the financial plan in a professional manner both orally and in writing.
Prerequisites: FIN 385, FIN 386, FIN 354, and ACC 317

FIN 395: Honors Thesis in Finance

Completion of the honors thesis is a requirement for the KU Honors Program. This course enables the honors student to conduct a research project under the direction of a faculty member from the Finance Discipline. The student and faculty member will prepare a research proposal. A student can apply for 3-6 credits (s.h.). The proposal and number of credits must be approved by the discipline.

Prerequisites: Must be a member of the KU Honors Program and have completed FIN 350, plus nine credits of upper-level finance courses and an overall GPA of 3.25 or higher.

Fine Arts**FAR 14VL: Elements of Drawing For Non-Art Majors**

This studio course introduces the basic principles and practices of drawing. Emphasis will be on developing the students' ability to draw objectively, and to perceive size, shape, proportion, value, and spatial relationships. A secondary emphasis will be on developing the students' ability to think critically about their drawing and understand drawing in a historical context. The bulk of class sessions will be dedicated to drawing from observation. This activity is supplemented by lectures, slideshows, demonstrations, discussions, and critiques. Minimum of three hours of work outside the classroom is required per week. This is a general education course. It is open to all students except visual art majors. Fine Arts, Communication Design, Art Education and Craft majors are not permitted to enroll in this course.

FAR 15: Drawing I

Graphic expression with various media based on individual sustained objective and subjective aesthetic concerns for human and nature forms. Emphasis is placed on physical as well as mental aspect of seeing. The courses cover two semesters (I, II) to be taken in sequence. Minimum of three hours of work outside the classroom required. Prerequisites: All students in college of Visual and Performing Arts except Theatre, Music, Music Education and Speech majors; or permission of instructor.

FAR 16: Drawing II

Graphic expression with various media based on individual sustained objective and subjective aesthetic concerns for human and nature forms. Emphasis is placed on physical as well as mental aspect of seeing. The courses cover two semesters (I, II) to be taken in sequence. Minimum of three hours of work outside the classroom required. Prerequisites: All students in college of Visual and Performing Arts except Theatre, Music, Music Education and Speech majors; FAR015; or permission of instructor.

FAR 61VL: Introduction to Darkroom Photography for Non-Art Majors

This course will introduce the basic skills and concepts of black and white Fine Arts photography, using traditional 35mm film cameras, film processing and darkroom printing methods. With an emphasis on creativity and inventiveness, students will explore the image-making potential and craft of gelatin silver photographic printing. A 35mm film camera with manual controls is required; some are available for loan. Minimum of three hours of work per week outside of the classroom is required.

FAR 62VL: Digital Photo for Non-Art Majors

This course is designed to introduce the aesthetic and technical fundamentals of digital photography with emphasis on creativity. **STUDENTS ARE REQUIRED TO HAVE ACCESS TO A DIGITAL SINGLE LENS REFLEX CAMERA FOR THE DURATION OF THIS COURSE.** This studio art class meets for six hours a week and requires a minimum of three hours work outside the classroom per week.

FAR 111: Introduction to Painting

This course involves the student with an introductory experience in painting. The course includes working with a variety of painting materials and techniques. Experiences will also include basic problems in color and composition. Minimum of three hours of work outside the classroom required.

Prerequisites: Studio Art major/minor, or Applied Digital Arts major, or Art Education major, or Communication Design major, or Crafts major and FAR 16, or FAR 14; or permission of the department.

FAR 131: Introduction to Watercolor

A basic introduction to the materials and methods of transparent watercolor painting. Minimum of three hours of work outside the classroom required.

Prerequisites: Studio Art major/minor, or Applied Digital Arts major, or Art Education major, or Communication Design major, or Crafts major and FAR 16, or FAR 14; or permission of the department.

FAR 141: Introduction to Printmaking

Introduction to the manipulation of materials and techniques of printmaking to create or transfer visual images. Intaglio, lithographic monoprint, relief, stencil, rubbing, embossing, and printing processes will be explored. Minimum of three hours of work outside the classroom required.

Prerequisites: Studio Art major/minor, or Applied Digital Arts major, or Art Education major, or Communication Design major, or Crafts major and FAR 16, or FAR 14; or permission of the department.

FAR 151: Introduction to Life Drawing

Drawing from the nude model, either male or female, with a realistic analytical concentration on the muscular and skeletal structure of the human body insofar as these are discernible. Minimum of three hours of work outside the classroom required.

Prerequisites: Studio Art major/minor, or Applied Digital Arts major, or Art Education major, or Communication Design major, or Crafts major and FAR 16; or permission of the department.

FAR 161: Introduction to Photography - Darkroom

This course will introduce the basic skills and concepts of black and white photography, using traditional film cameras, film processing and darkroom methods. With an emphasis on creativity and inventiveness, students will explore the image-making potential and craft of the photographic print, within a fine arts context. A 35 mm camera with manual controls is required. Minimum of three hours of work outside the classroom is required. (6 c.h., 3 s.h.)

Prerequisites: Studio Art major/minor, or Applied Digital Arts major, or Art Education major, or Communication Design major, or Crafts major or permission of the department.

FAR 162: Introduction to Photography Digital

This course will introduce the basic skills and concepts of photography using digital tools and methods within a Fine Arts context. With an emphasis on creativity and inventiveness, students will be exposed to the hardware and software necessary for each step of the digital image making process, from input (digital cameras, scanners, web) through manipulation (Photo Shop and other current software) to output (a variety of printers, papers, projections, and the web). Minimum of three hours of work outside the classroom is required. (6 c.h., 3 s.h.)

Prerequisites: Studio Art major/minor, or Applied Digital Arts major, or Art Education major, or Communication Design major, or Crafts major or permission of the department.

FAR 171: Introduction to Sculpture

Basic experiences in conceiving and creating three dimensional and sculptural forms in various media. Emphasis is placed on acquiring a firm knowledge of materials and techniques necessary for creating sculptural works of art. Minimum of three hours of work outside the classroom required.

Prerequisites: Majors with fifteen credits in Studio Art, Applied Digital Art, Art Ed, Crafts or Communication Design with ART 31, ART 32, FAR 15, and FAR 16; or Studio Art minors with permission of the department; or permission of the department.

FAR 182CP: Introduction to Time-Based Media

This course provides an introduction to the creation of images through computer-based technologies. During the course students will not only learn the use and basic capabilities of both still and time-based digital image-making equipment and software, they will also explore the unique ways in which computers facilitate artistic expression. Students will be introduced to art works, artists, alternative-viewing sites, cyber communities, aesthetics and criticism related to digital art. They will also consider digital tools as part of a continuum of technological innovation in the visual arts. This course serves as an introduction to digital media and prepares students for advanced digital art courses and other courses requiring a basic familiarity with these media. A minimum of 3 hours of work outside of class is required per week. (6 c.h., 3 s.h.)

Prerequisites: Studio Art major/minor, or Applied Digital Arts major, or Art Education major, or Communication Design major, or Crafts major; or permission of the department.

FAR 200: Studio Materials

Prerequisites: ART31, ART 32, FAR 15, and FAR 16; or permission of the instructor.

FAR 219: Applied Color

Prerequisites: ART31, ART 32, FAR 15, and FAR 16; or permission of the instructor.

FAR 220: Topics in Drawing I

This is an advanced drawing course for in-depth study of a single area of contemporary or historical drawing practice. Representative areas of inquiry include: color and the figure; the artist's sketchbook; digital drawing; mixed media and collage; contemporary landscape; experimental drawing; anatomy for the artist; and others. Within each umbrella topic, a range of techniques, concepts, and subject matter will be explored. Students will become more fully fluent in the aesthetic concepts associated with a specific topic and develop methods of presentation based on professional practices. Students will also expand their skills with drawing techniques and materials, and learn tools to articulate their ideas. Primary emphasis is on the development of an individual direction within the context of historical and contemporary techniques, ideas and images in drawing.

Course can be repeated for credit and will count toward the drawing or printmaking concentration.

Prerequisites: FAR 15 and FAR 16 and FAR 151 or permission of the instructor.

FAR 221: Topics in Drawing II

This is an advanced drawing course for in-depth study of a single area of contemporary or historical drawing practice. Representative areas of inquiry include: color and the figure; the artist's sketchbook; digital drawing; mixed media and collage; contemporary landscape; experimental drawing; anatomy for the artist; and others. Within each umbrella topic, a range of techniques, concepts, and subject matter will be explored. Students will become more fully fluent in the aesthetic concepts associated with a specific topic and develop methods of presentation based on professional practices. Students will also expand their skills with drawing techniques and materials, and learn tools to articulate their ideas. Primary emphasis is on the development of an individual direction within the context of historical and contemporary techniques, ideas and images in drawing.

Course can be repeated for credit and will count toward the drawing or printmaking concentration.

Prerequisites: FAR 220

FAR 222: Topics in Drawing III

This is an advanced drawing course for in-depth study of a single area of contemporary or historical drawing practice. Representative areas of inquiry include: color and the figure; the artist's sketchbook; digital drawing; mixed media and collage; contemporary landscape; experimental drawing; anatomy for the artist; and others. Within each umbrella topic, a range of techniques, concepts, and subject matter will be explored. Students will become more fully fluent in the aesthetic concepts associated with a specific topic and develop methods of presentation based on professional practices. Students will also expand their skills with drawing techniques and materials, and learn tools to articulate their ideas. Primary emphasis is on the development of an individual direction within the context of historical and contemporary techniques, ideas and images in drawing.

Course can be repeated for credit and will count toward the drawing or printmaking concentration.

Prerequisites: FAR 221

FAR 223: Topics in Drawing IV

This is an advanced drawing course for in-depth study of a single area of contemporary or historical drawing practice. Representative areas of inquiry include: color and the figure; the artist's sketchbook; digital drawing; mixed media and collage; contemporary landscape; experimental drawing; anatomy for the artist; and others. Within each umbrella topic, a range of techniques, concepts, and subject matter will be explored. Students will become more fully fluent in the aesthetic concepts associated with a specific topic and develop methods of presentation based on professional practices. Students will also expand their skills with drawing techniques and materials, and learn tools to articulate their ideas. Primary emphasis is on the development of an individual direction within the context of historical and contemporary techniques, ideas and images in drawing.

Course can be repeated for credit and will count toward the drawing or printmaking concentration.

Prerequisites: FAR 222

FAR 224: Topics in Drawing V

This is an advanced drawing course for in-depth study of a single area of contemporary or historical drawing practice. Representative areas of inquiry include: color and the figure; the artist's sketchbook; digital drawing; mixed media and collage; contemporary landscape; experimental drawing; anatomy for the artist; and others. Within each umbrella topic, a range of techniques, concepts, and subject matter will be explored. Students will become more fully fluent in the aesthetic concepts associated with a specific topic and develop methods of presentation based on professional practices. Students will also expand their skills with drawing techniques and materials, and learn tools to articulate their ideas. Primary emphasis is on the development of an individual direction within the context of historical and contemporary techniques, ideas and images in drawing.

Course can be repeated for credit and will count toward the drawing or printmaking concentration.

Prerequisites: FAR 223

FAR 225: Topics in Drawing VI

This is an advanced drawing course for in-depth study of a single area of contemporary or historical drawing practice. Representative areas of inquiry include: color and the figure; the artist's sketchbook; digital drawing; mixed media and collage; contemporary landscape; experimental drawing; anatomy for the artist; and others. Within each umbrella topic, a range of techniques, concepts, and subject matter will be explored. Students will become more fully fluent in the aesthetic concepts associated with a specific topic and develop methods of presentation based on professional practices. Students will also expand their skills with drawing techniques and materials, and learn tools to articulate their ideas. Primary emphasis is on the development of an individual direction within the context of historical and contemporary techniques, ideas and images in drawing.

Course can be repeated for credit and will count toward the drawing or printmaking concentration.

Prerequisites: FAR 224

FAR 276: Interactive Design I: Web Design

This course will introduce students to design for the World Wide Web. Since its inception in 1993 the World Wide Web has become a pervasive form of communication throughout the world. The need for skilled designers has increased as the WWW has transformed from text-based documents to a multimedia communications system. Digital Design II will prepare students to create HTML-based web pages and sites and to understand the technical infrastructure of network-based communications. (6 c.h., 4 s.h.)

Prerequisites: CD and ARU majors only. Students must earn a grade of C- or better in the following courses: CDE 022, CDE 122, CDE 130, and CDE 147 or with permission of the Communication Design Department.

FAR 277: Interactive Design II: Multimedia

The study of design applying theories of human-computer interaction including the incorporation of static and moving visuals, sound, and language in a manner where the user is involved in a rich and meaningful experience. Interactive Design II focuses on the skills and knowledge necessary for creating content where the user's actions are answered in predictable (question & answer) and unpredictable (random events) ways; where the user is given control of the environment of the interface including selecting sounds, volume control, and playing video. Multimedia projects are designed for computer games, content contained on CD ROMs, educational kiosks, corporate presentations and for broadband web content.

Prerequisites: CD majors only and a grade of "C" or better in the following course CDE 276 or with permission of the Communication Design Department.

FAR 300: Studio Seminar

FAR 307: The Visual Journal: Drawing and Designing Abroad

This is an off-campus class that will be taught while traveling abroad. It is a hands-on course. Each student will complete a portfolio of artwork documenting his or her personal response to the travel experience. Through direct observation, students will explore their personal relationship with the destination, and construct a meaningful document of their travels. Students will have the opportunity to see firsthand the work of artists and designers from other cultures. The course will include guided gallery and museum visits. (This course is also offered under the following designations: CDE 307, FAR 307, CFT 307.) [6 ch 3 sh]

FAR 308: Creating Gallery Exhibitions

This course offers students a hands-on opportunity to conceptualize, develop, and implement exhibitions. Class projects are built on a foundation of readings, discussions, lectures and demonstrations. These materials emphasize the theories, history, and practice art exhibition production. This course is well-suited for students interested in pursuing museum/curatorial studies and artists interested in controlling the display of their own artwork.

Prerequisites: ARH 124, 125 or 126, and FAS300 or 310 or 320 or 330 or 340 or 350 or 360

FAR 318: Film And Video As Art

This hybrid course is a survey of avant-garde and experimental film and video from the early twentieth century to the present, and an interdisciplinary studio course. Students will view and critically analyze avant-garde films and videos, both in class discussions and in short papers, and consider the distinctive characteristics of time-based artworks. In addition, students will view artworks (paintings, prints, photos, etc.) contemporaneous to the films shown sometimes made by the filmmakers themselves and identify the formal and conceptual relationships between the films/videos and artworks. They will apply these critical perspectives to their own art making (in their medium or media of choice) and will develop the vocabulary to critically assess their peers' art works. (6 c.h., 3 s.h.) Prerequisites: ONE of the following: ART/FAR 182, FAR 111, 131, 141, 151, 161, 171 or CFT 121, 131, 141, 151, 161.

FAR 319: Color Theories & Concepts

Prerequisites: ART31, ART 32, FAR 15, and FAR 16; or permission of the instructor.

FAR 328: Old Master Draw Materials

Prerequisites: ART31, ART 32, FAR 15, and FAR 16; or permission of the instructor.

FAR 337: Themes and Practices in Photography

This advanced photography course is an in-depth study of a singular area of contemporary photographic practice. Topics include Contemporary Landscape; Constructed Image/Staged Photography; Documentary; The Body and the Lens; Image/Text; Photo Books Works, Alternative Processes and others. Students will expand their skills using darkroom and/or digital photographic techniques and will develop methods of professional art practice and presentation. Through individual and group work, students will develop critical perspectives and become more fully fluent in the aesthetic concepts and historical precedents associated with a specific photographic theme or practice. This course is repeatable up to 9 s.h. and will count toward the photography concentration.

Prerequisites: Intro to Photo-Darkroom FAR 161 and Intro to Photo-Digital FAR 162 (one may be taken concurrently with this course) or permission of the instructor.

FAR 338: Themes and Practices in Photography

This advanced photography course is an in-depth study of a singular area of contemporary photographic practice. Topics include Contemporary Landscape; Constructed Image/Staged Photography; Documentary; The Body and the Lens; Image/Text; Photo Books Works, Alternative Processes and others. Students will expand their skills using darkroom and/or digital photographic techniques and will develop methods of professional art practice and presentation. Through individual and group work, students will develop critical perspectives and become more fully fluent in the aesthetic concepts and historical precedents associated with a specific photographic theme or practice. This course is repeatable up to 9 s.h. and will count toward the photography concentration.

Prerequisites: Intro to Photo-Darkroom FAR 161 and Intro to Photo-Digital FAR 162 (one may be taken concurrently with this course) or permission of the instructor.

FAR 339: Themes and Practices in Photography

This advanced photography course is an in-depth study of a singular area of contemporary photographic practice. Topics include Contemporary Landscape; Constructed Image/Staged Photography; Documentary; The Body and the Lens; Image/Text; Photo Books Works, Alternative Processes and others. Students will expand their skills using darkroom and/or digital photographic techniques and will develop methods of professional art practice and presentation. Through individual and group work, students will develop critical perspectives and become more fully fluent in the aesthetic concepts and historical precedents associated with a specific photographic theme or practice. This course is repeatable up to 9 s.h. and will count toward the photography concentration.

Prerequisites: Intro to Photo-Darkroom FAR 161 and Intro to Photo-Digital FAR 162 (one may be taken concurrently with this course) or permission of the instructor.

FAR 340: WEB-BASED/INTERACTIVE ART

Prerequisites: FAR 182 or permission of the instructor.

FAR 350: Video Art and Motion Graphics

This course explores the history, theory, and practice of video and motion graphics as expressive art media. Students learn the concepts, principles and techniques of digital video art and motion graphics and their production, including filming, nonlinear editing, audio, digital animation and post-production workflow, through individual and collaborative projects. Students will also develop the ability of evaluating and critiquing various time-based artworks in this class. Class structure will consist of introduction lectures, technical demonstrations, video artwork screening and project critiques.

Prerequisites: FAR 182 or permission of the instructor.

FAR 358: Workshop: Digital Animation

Workshop subject material is concentrated and taught in a half semester. Workshop subject is taught during either the first or second half of a semester. A minimum of 6 hours of work outside of class is required per week. (6 c.h., 2 s.h.)

Prerequisites: CD majors only. Students must earn a grade of "C" or better in the following courses: CDE 231, CDE 220 and at least one of the following: CDE 242, CDE 239, CDE 252 or CDE 277 or with permission of the Communication Design Department.

FAR 360: Color in Photography

The course will instruct in making quality color prints from color negatives. Professional techniques for the color print using dichroic color-head enlargers and a color auto-processor will be used. Working knowledge of color transparencies will be incorporated through making a multi-image presentation. Emphasis will be placed on the creative potential of color photography. Minimum of three hours of work outside the classroom required.

Prerequisites: FAR 161

FAR 367: Artist Film-Making

The student will have the opportunity to explore the potential of cinema as a creative act through camera work, editing techniques, script organization, and production processes. Lectures and discussions will be concerned with the aesthetic and technical processes integral to film-making. Personal inquiry and self-motivation will be stressed.

Prerequisites: FAR 182 or permission of the instructor.

FAR 368: Specialized Photographic Techniques

This course presents specialized skills and materials used in the photo-graphic studio. Techniques of controlled studio lighting, large format camera handling, studio exposure, calculation and large format film processing will be explored. Minimum of three hours of work outside the classroom required.

Prerequisites: FAR 161

FAR 377: Independent Study: Art Studio I

Independent Study involves individual pursuit and self-determination in Fine Arts studio area not being offered by the University.

FAR 378: Independent Study: Art Studio II

Independent Study involves individual pursuit and self-determination in Fine Arts studio area not being offered by the University.

FAR 379: Independent Study: Art Studio III

Independent Study involves individual pursuit and self-determination in Fine Arts studio area not being offered by the University.

FAR 380: Independent Study: Art Studio IV

Independent Study involves individual pursuit and self-determination in Fine Arts studio area not being offered by the University.

FAR 383: Advanced Digital Photography

In this advanced course, digital photography students will expand their technical skills and become more fully fluent in the aesthetic concepts associated with digital fine art photography. Students can expect to engage in the production of digital photographs and related digital photographic media. They will explore creative solutions to aesthetic problems and develop methods of presentation and distribution practiced by artists who work with digital photographic imagery. Minimum of three hours of work outside the classroom is required. (6 c.h., 3 s.h.)

Prerequisites: Intro to Digital Media- FAR/ART 182 or FAR 162 (Intro to Digital Photo), or permission of the instructor.

FAR 384: Electronic Media for Artists

This advanced course will expand student artists' digital vocabulary to include digital video, audio, and web-based art, as practiced by contemporary artists. Continuing the emphasis on individual artistic growth, students will be exposed to the hardware and software necessary for new media productions, from input (digital video cameras, scanners, WWW) through manipulation (Dreamweaver, iMovie, Final Cut Pro or other similar programs) to output (a variety of printers, CD-ROM, DVD and WWW). A minimum of 3 hours of work outside the classroom is required. (6 c.h., 3 s.h.)

Prerequisites: Intro to Digital Media- FAR/ART 182 or FAR 162 (Intro to Digital Photo), or permission of the instructor.

FAR 385: Selected Topics in Studio Art

This course will provide opportunities for students to investigate specialized areas of study as the need or opportunity arises. Topics will cover studio processes and/or aesthetic issues not covered, or only superficially addressed in regularly offered courses. Minimum of three hours of work outside the classroom required.

Prerequisites: All foundation courses: ART 031, 032, FAR 015, FAR 016; further prerequisites may apply, depending on the topic. (Repeatable for each special topic.)

FAR 386: Digital Sculpture

Students in this course will examine new types of digital media by learning to operate a microcontroller (which is a small computer) and dismantling objects. Students will use the microcontroller to create either an interactive or non-interactive artwork. The course includes an overview of the history of digital art and some reading is required. Students will spend time building circuits, soldering, writing programs, and using these instruments to create sound, light and motion works. Students will gain a new understanding of the psychological, social and ethical opportunities digital media offers. A minimum of 6 hours of work outside of class is required per week.

Prerequisites: FAR 182 or permission of the instructor.

FAR 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

FAR 398CM: The Business of Art

The course will focus on the business issues related to being a professional artist. It will also address the development of practical portfolio procedures through lectures, demonstrations, field trips, consultations, and AV presentations in a studio situation.

Prerequisites: Fine Arts majors only

FAR 399: Student Exhibition

This student exhibition is a requirement for graduation. All BFA degree candidates, including Related Arts with a Visual Arts Concentration, and all BS in Art Education degree candidates and certification students participate in a Senior Show. Seniors who will be graduated in December register for the senior exhibition held at the end of the Fall semester. Seniors who will be graduated in May or at the end of either of the two Summer Sessions register to participate in the senior shows held during the Spring Semester. Participation in a Senior Show is defined as showing at least one piece/documentation/record within the confines of the display area being used for the exhibition (usually the Sharadin Art Gallery). Showing work in alternate spaces on campus, and not in the Senior Show, will not satisfy the graduation requirement.

Fine Arts Studio

FAS 230: Works on Paper Studio I

This course affords students a wide range of practice and experimentation using various media on paper, including drawing (both wet and dry media), transparent and opaque watercolor, acrylic paint, collage, image transfer, etc. Work must be done on paper, or a paper-like support (ie. Mylar), or must include paper in its construction in a substantial way. No pastels may be used in class due to health concerns. Students are encouraged to pursue their own interests in both technique and concept. This is a repeatable studio course; requirements vary by studio level. Credit may be applied to either Drawing or Painting Concentration depending upon the mediums used.

A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAR 111 or FAR 131 or FAR 141 or FAR 151

FAS 231: Works on Paper Studio II

This course affords students a wide range of practice and experimentation using various media on paper, including drawing (both wet and dry media), transparent and opaque watercolor, acrylic paint, collage, image transfer, etc. Work must be done on paper, or a paper-like support (ie. Mylar), or must include paper in its construction in a substantial way. No pastels may be used in class due to health concerns. Students are encouraged to pursue their own interests in both technique and concept. This is a repeatable studio course; requirements vary by studio level. Credit may be applied to either Drawing or Painting Concentration depending upon the mediums used.

A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 230

FAS 232: Works on Paper Studio III

This course affords students a wide range of practice and experimentation using various media on paper, including drawing (both wet and dry media), transparent and opaque watercolor, acrylic paint, collage, image transfer, etc. Work must be done on paper, or a paper-like support (ie. Mylar), or must include paper in its construction in a substantial way. No pastels may be used in class due to health concerns. Students are encouraged to pursue their own interests in both technique and concept. This is a repeatable studio course; requirements vary by studio level. Credit may be applied to either Drawing or Painting Concentration depending upon the mediums used.

A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 231

FAS 233: Works on Paper Studio IV

This course affords students a wide range of practice and experimentation using various media on paper, including drawing (both wet and dry media), transparent and opaque watercolor, acrylic paint, collage, image transfer, etc. Work must be done on paper, or a paper-like support (ie. Mylar), or must include paper in its construction in a substantial way. No pastels may be used in class due to health concerns. Students are encouraged to pursue their own interests in both technique and concept. This is a repeatable studio course; requirements vary by studio level. Credit may be applied to either Drawing or Painting Concentration depending upon the mediums used.

A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 232

FAS 234: Works on Paper Studio V

This course affords students a wide range of practice and experimentation using various media on paper, including drawing (both wet and dry media), transparent and opaque watercolor, acrylic paint, collage, image transfer, etc. Work must be done on paper, or a paper-like support (ie. Mylar), or must include paper in its construction in a substantial way. No pastels may be used in class due to health concerns. Students are encouraged to pursue their own interests in both technique and concept. This is a repeatable studio course; requirements vary by studio level. Credit may be applied to either Drawing or Painting Concentration depending upon the mediums used.

A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 233

FAS 235: Works on Paper Studio VI

This course affords students a wide range of practice and experimentation using various media on paper, including drawing (both wet and dry media), transparent and opaque watercolor, acrylic paint, collage, image transfer, etc. Work must be done on paper, or a paper-like support (ie. Mylar), or must include paper in its construction in a substantial way. No pastels may be used in class due to health concerns. Students are encouraged to pursue their own interests in both technique and concept. This is a repeatable studio course; requirements vary by studio level. Credit may be applied to either Drawing or Painting Concentration depending upon the mediums used.

A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 235

FAS 236: Works on Paper Studio VII

This course affords students a wide range of practice and experimentation using various media on paper, including drawing (both wet and dry media), transparent and opaque watercolor, acrylic paint, collage, image transfer, etc. Work must be done on paper, or a paper-like support (ie. Mylar), or must include paper in its construction in a substantial way. No pastels may be used in class due to health concerns. Students are encouraged to pursue their own interests in both technique and concept. This is a repeatable studio course; requirements vary by studio level. Credit may be applied to either Drawing or Painting Concentration depending upon the mediums used.

A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 235

FAS 300: Time Based Experimental Media Studio I

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAR 182 or permission of the instructor.

FAS 301: Time Based Experimental Media Studio II

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 300 or permission of the instructor

FAS 302: Time Based Experimental Media Studio III

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 301 or permission of the instructor

FAS 303: Time Based Experimental Media Studio IV

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 302 or permission of the instructor

FAS 304: Time Based Experimental Media Studio V

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 303 or permission of the instructor

FAS 305: Time Based Experimental Media Studio VI

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 304 or permission of the instructor

FAS 306: Time Based Experimental Media Studio VII

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 305 or permission of the instructor

FAS 307: Digital Media Studio VIII

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 307 or permission of the instructor

FAS 308: Digital Media Studio IX

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS308

FAS 309: Digital Media Studio X

This course is a continuation of the study of digital photography, digital video, web-based art, time-based art and related subjects beyond the introductory level. The emphasis is on continued development of personal imagery within the context of the digital arts.

Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Digital Media Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will increasingly show familiarity with contemporary and historical works [painting, printmaking, etc.] in the digital arts, especially that which relates to their work. At the more advanced levels of Studio, students will be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS308

FAS 310: Painting Studio I

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAR 111 or permission of the instructor.

FAS 311: Painting Studio II

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS310

FAS 312: Painting Studio III

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS310

FAS 313: Painting Studio IV

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS310

FAS 314: Painting Studio V

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS310

FAS 315: Painting Studio VI

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS314

FAS 316: Painting Studio VII

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS315

FAS 317: Painting Studio VIII

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS316

FAS 318: Painting Studio IX

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS317

FAS 319: Painting Studio X

This course is designed to further acquaint each student with painting knowledge, skills and attitudes needed for the development of a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, no more than 6 sh in one semester). This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS318

FAS 320: Drawing Studio I

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAR 111 or FAR 131 or FAR 141 or FAR 151

FAS 321: Drawing Studio II

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS320

FAS 322: Drawing Studio III

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 321 or permission of the instructor

FAS 323: Drawing Studio IV

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 322 or permission of the instructor

FAS 324: Drawing Studio V

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 323 or permission of the instructor

FAS 325: Drawing Studio VI

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 324 or permission of the instructor

FAS 326: Drawing Studio VII

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS 325 or permission of the instructor

FAS 327: Drawing Studio VIII

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS326

FAS 328: Drawing Studio IX

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS327

FAS 329: Drawing Studio X

This course is designed to allow the student to develop advanced skills and to explore the infinite possibilities of personal creative expression inherent in the art of drawing. The main emphasis of the course will be on studio activities supplemented by demonstrations, lectures, discussions and critiques, all of which help to define the nature of drawing. The repeatable aspect of the course allows for a continuum in the student's exploration of his/her artistic interest and creative ideas. (Repeatable for up to 30 hours credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS328

FAS 330: Watercolor Studio I

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAR 131 or permission of the instructor.

FAS 331: Watercolor Studio II

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS330

FAS 332: Watercolor Studio III

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS330

FAS 333: Watercolor Studio IV

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS330

FAS 334: Watercolor Studio V

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS330

FAS 335: Watercolor Studio VI

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS330

FAS 336: Watercolor Studio VII

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS330

FAS 337: Watercolor Studio VIII

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS336

FAS 338: Watercolor Studio IX

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS337

FAS 339: Watercolor Studio X

The course is planned to further effective experience with watercolor, to gain knowledge, skill and attitudes necessary in developing visual imagery and advancing individual interests in a specialized media. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS338

FAS 340: Printmaking Studio I

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAR 141 or permission of the instructor

FAS 341: Printmaking Studio II

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS340

FAS 342: Printmaking Studio III

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS340

FAS 343: Printmaking Studio IV

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS342

FAS 344: Printmaking Studio V

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS340

FAS 345: Printmaking Studio VI

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS340

FAS 346: Printmaking Studio VII

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS340

FAS 347: Printmaking Studio VIII

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS346

FAS 348: Printmaking Studio IX

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS347

FAS 349: Printmaking Studio X

This course is a continuation of the study of printmaking beyond the introductory level. The emphasis is on the continued development of personal imagery within the context of printmaking. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS348

FAS 350: Life Drawing Studio I

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAR 151 or permission of the instructor.

FAS 351: Life Drawing Studio II

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS350

FAS 352: Life Drawing Studio III

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS350

FAS 353: Life Drawing Studio IV

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS350

FAS 354: Life Drawing Studio V

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS350

FAS 355: Life Drawing Studio VI

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS350

FAS 356: Life Drawing Studio VII

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS350

FAS 357: Life Drawing Studio VIII

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS356

FAS 358: Life Drawing Studio IX

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS357

FAS 359: Life Drawing Studio X

This course provides an opportunity to achieve a higher level of intensification by continuing the development in life drawing. This leads to the subjective conception of the figure and enables the student to develop a form of drawing he/she chooses to pursue.

This course is to further acquaint students with drawing knowledge; skills and attitudes needed for a personal imagery as well as the development of self-direction. (Repeatable up to 30 sh, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS358

FAS 360: Photography Studio I

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAR 161 or 162 or permission of the instructor

FAS 361: Photography Studio II

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS360 or permission of the instructor

FAS 362: Photography Studio III

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS360 or permission of the instructor

FAS 363: Photography Studio IV

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS360 or permission of the instructor

FAS 364: Photography Studio V

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS360 or permission of the instructor

FAS 365: Photography Studio VI

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS360 or permission of the instructor

FAS 366: Photography Studio VII

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS360 or permission of the instructor

FAS 367: Photography Studio VIII

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS366

FAS 368: Photography Studio IX

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS367

FAS 369: Photography Studio X

The studio extends the photography experience to the student who wishes to pursue further work in the medium with more depth in a selected area. The emphasis will be on individual direction in terms of technique, craft, and image. (Repeatable up to 30 hours of credit; no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS368

FAS 370: Sculpture Studio I

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAR 171 or permission of the instructor.

FAS 371: Sculpture Studio II

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS370 or the permission of the instructor.

FAS 372: Sculpture Studio III

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS370 or the permission of the instructor.

FAS 373: Sculpture Studio IV

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS370 or the permission of the instructor.

FAS 374: Sculpture Studio V

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS370 or the permission of the instructor.

FAS 375: Sculpture Studio VI

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS370 or the permission of the instructor.

FAS 376: Sculpture Studio VII

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS370 or the permission of the instructor.

FAS 377: Sculpture Studio VIII

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS376

FAS 378: Sculpture Studio IX

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS377

FAS 379: Sculpture Studio X

Advanced studio study, research and application of specific materials, processes and concepts in the creation of sculptural form. (Repeatable up to 30 semester hours, not more than 6 sh per semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required.

Prerequisites: FAS378

FAS 380: Lithography Studio I

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAR 141 or permission of the instructor

FAS 381: Lithography Studio II

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS 380 or the permission of the instructor.

FAS 382: Lithography Studio III

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS 380 or the permission of the instructor.

FAS 383: Lithography Studio IV

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS 380 or the permission of the instructor.

FAS 384: Lithography Studio V

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS 380 or the permission of the instructor.

FAS 385: Lithography Studio VI

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS 380 or the permission of the instructor.

FAS 386: Lithography Studio VII

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS 380 or the permission of the instructor.

FAS 387: Lithography Studio VIII

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS386

FAS 388: Lithography Studio IX

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS387

FAS 389: Lithography Studio X

This class investigates the possibilities of lithographic printmaking. Students are introduced to the materials and processes required to produce lithographic prints. Emphasis will be on stone lithography, but the course will also address the use of aluminum plates. Students will be expected to produce original works of art using this process. This course can be used to satisfy the requirements for print-making concentration. (Repeatable up to 30 sh, no more than 6 sh in one semester.) This course is repeatable up to ten (10) times. Students are expected to set higher goals and achieve a higher level of sophistication in successive levels of Studio. Specifically, students will develop their personal imagery, technical ability and increase their knowledge of relevant processes and techniques. They will also increasingly show familiarity with contemporary and historical [painting, printmaking, etc.], especially that which relates to their work. At the more advanced levels of Studio, students will increasingly be expected to pursue opportunities to exhibit their work through juried exhibitions and on-campus venues. A minimum of three (3) hours of work per week outside of class is required. Prerequisites: FAS389

French**FRE 11: Elementary French I**

A course for beginners to develop basic skills in pronunciation, aural comprehension, speaking and reading. The selection of course materials emphasizes social and cultural values. Offered in two semesters of three hours each.

FRE 12: Elementary French II

A course for beginners to develop basic skills in pronunciation, aural comprehension, speaking and reading. The selection of course materials emphasizes social and cultural values. Offered in two semesters of three hours each.

FRE 13: Elementary Conversation in French

Intensive oral practice covering vocabulary and structures of survival situations. One hour of class. Open to students of FRE 011 and 012 or with permission of the instructor. May be repeated.

FRE 23: Intermediate Conversation in French

Intensive oral practice covering topics that prepare the student for foreign travel and the encounter of French people. One hour of class. Open to students of FRE 103 and 104 or with permission of the instructor. May be repeated.

FRE 103: Intermediate French III

Students who have satisfactorily completed six hours of elementary French, or who have had at least two years of French in high school continue the development of the basic skills in aural comprehension, speaking, and writing. Emphasis is placed on independent reading. Offered in two semesters of three hours each.

FRE 104: Intermediate French IV

Students who have satisfactorily completed six hours of elementary French, or who have had at least two years of French in high school continue the development of the basic skills in aural comprehension, speaking, and writing. Emphasis is placed on independent reading. Offered in two semesters of three hours each.

FRE 138CDVL: French Culture Through Film

This course taught in English is an introduction to French and Francophone cultures through films by French and Francophone directors examining gender, ethnicity and global issues. It is designed for Freshmen and any student interested in the French-speaking world. Films will be in the original French with English subtitles. No knowledge of French language is required for this course.

FRE 212: French Composition

French 212 is designed for students completing a concentration in French, French minors and majors and other advanced students in French as an intensive grammar review and a writing workshop primarily to develop and enhance the student's capacity for written expression in French. Students will learn advanced writing techniques, all the stages of writing, basic research techniques, and the components of a classical French dissertation. Prerequisites: FRE 104

FRE 213: Advanced Conversation in French

FRE 213 is designed for nonnative speakers of French who have successfully completed intermediate levels of French instruction (FRE 103 and FRE 104) and who wish to further improve their oral proficiency in French. FRE 213 is an intensive course in oral/aural skills with a special focus on pronunciation and communication in culturally appropriate ways in French. The course will be conducted in French and the focus will be on providing oral opportunities to speak French in peer group activities, dialogs, role play situations and various techniques of oral presentation which afford students a chance to hone and perfect their French oral skills.

Prerequisites: FRE 104

FRE 225: French Phonetics and Applied Linguistics

This course consists of a systematic and thorough study of French phonology, covering the three types of sounds, their alternation and combination specific to French; phonetic transcription; an overview of regional, dialectal and social variants. An initiation to linguistic analysis, including terminology and methods of investigation with an overview of morphology, syntax, semantics and sociolinguistics. The course is taught in French.

Prerequisites: FRE 104

FRE 247CD: Modern French and Francophone Drama and Theater in English Translation

Taught in English, this study of French drama from the Age of the Enlightenment to the present in the context of French and francophone cultures includes masterpieces that have both formed and influenced the development of contemporary theater.

FRE 253: Paris: Anatomy of a Cultural Capital

Explore the “city of light,” capital of modernity! In the nineteenth century, Paris became a laboratory for modernity through history, architecture, urban planning, the visual and performing arts and the clash of capitalism vs. socialism. We shall take a tour of “the gay Paree” through consideration of revolutions, sewers, department stores, prostitution, “le demi-monde,” anti-semitism, money, spectacle, the working class, bars and cafes, clothing, caricature, the birth of the camera and film industry, advances in medicine and other sciences. The course includes also a social and cultural historical view of Paris.

This course is taught in English.

FRE 254: Francophone Legacies: Intercultural Inquiries

An Introduction to the French diaspora and the living cultures of the French-speaking World, this course emphasizes the diversity of interrelated Francophone issues. It shows how that each community in the U.S., and in the rest of the world, has its own discrete set of issues. The Acadians in Maine struggle to maintain allegiance to their culture. Haitians have political and economic reasons for immigrating to the U.S.A. while maintaining emotional ties to their island. Recent North African immigrants struggle to survive in a post-9/11 culture that holds a mistrust of extremist Islam while balancing their blended cultures of French and Arabic. Francophone communities from Africa, Asia and Polynesia have also their distinctiveness. This course is taught in English.

FRE 257: Masterpieces of French Literature in English Translation I

This course entails an in-depth study of works from French literature selected for their humanistic character, their artistic quality and their present vitality. Primary emphasis is the appreciation of the innovative approach of each author to the universal themes of love and death, Man and Nature, Man's relation to God, war and peace, freedom and bondage. This survey will include representative works from the major literary genres: novel, essay, short story, drama and poetry (in English). The first semester (I) deals with French literature until 1800.

Prerequisites: ENG23, ENG24 or ENG25

FRE 258: Masterpieces of French Literature in English Translation II

This course entails an in-depth study of works from French literature selected for their humanistic character, their artistic quality and their present vitality. Primary emphasis is the appreciation of the innovative approach of each author to the universal themes of love and death, Man and Nature, Man's relation to God, war and peace, freedom and bondage. This survey will include representative works from the major literary genres: novel, essay, short story, drama and poetry (in English). The second semester (II) deals with French literature from 1800 to the contemporary period.

Prerequisites: ENG23, ENG24 or ENG25

FRE 290: The French Connection: Francophone Films in Context

This course surveys films from French-speaking countries outside of France and situates them in their cultural as well as cinematic contexts. The products, practices, and perspectives of the filmmakers' cultures as well as French terminology for the visual language of these filmmakers richly contextualize this study of the continued international role of French and connect the study of French to multiple disciplines. Taught in French.

FRE 300: French Classical Drama

The classical drama from its rise to its highest point of achievement. Masterpieces of Corneille, Moliere, and Racine. Precise written in French on the readings.

Prerequisites: FRE 104

FRE 302: Survey of French Literature II

First semester: the development of French literature from its origin to the end of the 18th century. Second semester: continuation of the survey through the 19th and into the 20th centuries. Representative readings of varied literary types.

Prerequisites: FRE 104

FRE 317: French in the Global Village

This course (taught in French) presents an overview of the history of the French language and culture. It provides a humanist perspective for a better understanding of the impact of the French language and culture on the rest of the world through the colonial enterprise. While emphasizing the post-colonial era and the advent of globalization, FRE 317 gives students a content-based approach to learning the language. Focus is placed on the communicative aspect of the language and aims at deepening students' understanding of the socio-linguistic aspect of the language.

Prerequisites: FRE 211

FRE 327: Professional Translation Skills in French

This course is an introductory level course in translation to learn and practice skills needed to read critically and to translate from English to French and vice versa. We shall stress accuracy, precision, idiomacy, and subtlety in both languages. Furthermore, the proper use of a dictionary will be taught to avoid pitfalls of errors when words are taken out of context or as a single unit. A review of various kinds of specialized dictionaries (unilingual versus bilingual) will be presented. The interest in Translation Studies (Traductology), i.e. Comprehensive History of Translation, has grown since the 80s. We shall endeavor to present an overview of recent developments in this fast growing field.

FRE 331: Identity, Modernity and Text in New France

FRE 331 (formerly FRE 330) consists of the study of ideas and societal changes that shaped and continue to impact linguistic, artistic, political and cultural achievements of the French and the French-Speakers in the contemporary world. Focus is placed on modernity and identity formation to teach students how to think critically and develop research skills through specific exercises including Web resources. The course will be taught in French.

Prerequisites: FRE 104

FRE 338: Aspects of French Popular Culture

French culture has traditionally been understood as both "high" and "low." And, in the past, French culture has most often been communicated to the outside world in terms of the artistic symbols of "high culture." But what is now understood by the term "French culture" has changed. Although traditional bias towards high-culture remains, the recent celebrity of what has been called "low culture" (and its inclusion under the general heading of "French culture") has generated much confusion. The idea of French culture, as now understood abroad, provides a distorted image of complex cultural realities of contemporary France. This course is designed to disentangle these historical complexities.

Prerequisites: FRE 212

FRE 340: French Culture and Civilization

French life and culture as seen in literature, art, music and philosophy. The folklore, linguistic and social aspects of culture will also be covered to acquaint the student with the complexities of the national background. Required for Secondary Education majors with a concentration in French.

Prerequisites: FRE 104

FRE 342: French Canada: Past & Present

This course is a panoramic exploration of the multifaceted and vibrant French culture in Quebec and the ROC (Rest of Canada) from the birth of New France to recent Quebec political turmoil. This course will incorporate a multidisciplinary approach to the historical, political, cultural, artistic, and socio-economic movements that have influenced and still impact Quebec and Canada as a nation, our neighbor to the North. Cultural manifestations such as creative art, cinema, music, folk songs, narrative texts and a brief overview of the economic sector to underline Quebec/U.S.A. special partnership will be examined. Oral and written practice in critical thought will further mastery of the French language. This course is taught in French.

FRE 343: France at the Dawn of the Twenty-First Century

FRE 343 consists of a study of contemporary France and French-Speaking societies, as manifested in present-day life and culture to provide a vivid overview of present day France at the dawn of the Twenty-First Century. Consideration will be given to their place within the enlarged European Union and the world, to political, economic and social structures to education and the Arts. We shall focus on the way French people are reacting as they are confronted with an increasingly complex world, the advent of the information revolution technology, and multiculturalism. Special attention will be given to the fabric of French society as a new mosaic of cultures, specifically the influx from former North African colonies: Algeria, Morocco and Tunisia, i.e. the Maghreb.

FRE 344: North-African Cultures and Literatures

In FRE 344, taught in French, advanced students of French examine the cultures and literature of the Maghreb and explore France's complex relationship with its former North-African colonies. Students will also consider how the French Nation-State model has been masking ethnic differences and how French focus on Beurs (Arabs of the third generation) has shaken the ideological foundations of Republican and secular France.

Prerequisites: FRE 212

FRE 345: Modern French Drama and Theatre

The study of French drama from the Age of Enlightenment to the present. Selected dramatists of the 18th, 19th and 20th centuries will be considered.

Prerequisites: FRE 104

FRE 360: Study Abroad Experience

This course permits approved study abroad experiences to be counted in the student's French major (B.A. and B.S. Ed.), minor or concentration. Prior to an approved study abroad experience, any students majoring in French may, with the input and approval of her/his advisor, request that 1-6 credit hours be granted toward her/his major based on the activities to be undertaken. Any student minoring in French or seeking a concentration in French may request that 1-3 credit hours be granted based on the activities to be undertaken. Students are required to prepare a written request to the advisor giving a description of activities and a rationale for requesting credit. This course is available only to students majoring, minoring or earning an Elementary Education concentration in French who complete an approved study abroad program and meet evaluation standards approved by the French advisor.

FRE 361: Women in French Literature

An Honors course to familiarize both the French major as well as the non-language student with the role of women in French literature from the Middle Ages through the Twentieth Century. Students will read selected works by women writers in several genres and will read a few works by men in which the woman is the primary character or focus. The course will survey the expanding and developing role of women through the centuries. All readings will be in English; the course will be taught exclusively in English and will meet three hours per week. Course does not satisfy the foreign language requirement for any degree, but can be used to satisfy humanities requirement.

FRE 370: Selected Topics in French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 371: Selected Topics In French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 372: Selected Topics In French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 373: Selected Topics In French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 374: Selected Topics In French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 375: Selected Topics In French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 376: Selected Topics In French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 377: Selected Topics In French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 378: Selected Topics In French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 379: Selected Topics In French

This course entails an intensive study of topics in French culture or literary topics, styles, trends, criticisms and writers not included or not covered in depth in other French courses. May be repeated for credit.

FRE 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

FRE 470: Selected Topics In French

Selected Topics in French.

Freshman Seminar

FRS 1: Freshman Seminar

University Studies: The First-Year Seminar introduces students to the critical strategies, resources, and responsibilities of a university education. The course employs substantive reading, writing, and critical thinking assignments from across the curriculum, in addition to research and fieldwork, to increase the student's ability to effectively function in the University community. The common course requirements for each UST section are the same, though the specific focus of each individual seminar may differ.

General Studies

GEE 390: General Studies Internship

The student is placed in a work-study situation that is relevant to the educational and vocational goals and objectives of the student. The internship experience and course credit will be determined prior to enrollment. Course credit will be established by the character and nature of the internship placement. Students in the General Studies degree program should apply to the General Studies Committee for approval one semester in advance of the internship.

GEE 391: The Harrisburg Internship Semester (THIS): Internship

THIS Internship is a program sponsored by PASSHE and is designed to give the student firsthand, practical experience and the opportunity to work alongside officials at all levels of state government. THIS is open to qualified students from any major, who have a 3.0 GPA and have earned 45 credits. A faculty Campus Coordinator selects students from the university to serve as THIS interns.

GEE 392: The Harrisburg Internship Semester (THIS): Research

The Harrisburg Internship Semester provides a comprehensive academic approach to the internship experience. THIS Internship is a program sponsored by PASSHE and is designed to give the student firsthand, practical experience and the opportunity to work alongside officials at all levels of state government. In addition, students are required to complete a thesis-length research project. THIS is open to qualified students from any major, who have a 3.0 GPA and have earned 45 credits. A faculty Campus Coordinator selects students from the university to serve as THIS interns.

GEE 393: The Harrisburg Internship Semester (THIS): Seminar

The Harrisburg Internship Semester provides a comprehensive academic approach to the internship experience. THIS Internship is a program sponsored by PASSHE and is designed to give the student firsthand, practical experience and the opportunity to work alongside officials at all levels of state government. In addition, students are required to participate in rigorous weekly public policy seminar. THIS is open to qualified students from any major, who have a 3.0 GPA and have earned 45 credits. A faculty Campus Coordinator selects students from the university to serve as THIS interns.

GEE 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis

GEE 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

Geography

GEG 10: Elements of Physical Geography

Physical geography examines spatial elements of the physical environment - weather, climate, vegetation, soils, and landforms. Students analyze the nature and characteristics of these elements, the processes involved in their development, their distribution over the earth, and their inter-relationships. Students also examine the interrelationships between these elements and human activities. They use maps and other geographical data to locate, analyze, interpret, and solve geographical problems of a physical environmental nature. This course is useful to students seeking to better understand geographical aspects of environmental issues.

GEG 20CD: Elements of Cultural Geography

The purpose of this course is to teach students how to think geographically about culture. This involves considering how people's actions through social, economic, and political processes create and transform places. Topics include, but are not limited to, geographies of population, migration, language, religion, ethnicity, politics, urbanization, agriculture, and development. Students will study how peoples' culture affects the world around them, and in turn, how it is affected by the cultures and environments that surround it.

GEG 40: Descriptive Oceanography

A course to familiarize the non-scientific student with the marine environment and current developments in the marine sciences. Topics for study will include: the Physical Parameters of the Ocean; Ocean Basin Topography; Life in the Sea; and Resources in the Oceans. Students will be encouraged to participate in field activities at the Wallops Island Marine Center at Wallops Island, Virginia. This course is unacceptable for the Earth-Space Science major requirement.

GEG 101: World Regional Geography

This introductory course is designed to give the student a broad overview of the world - its peoples, cultures, economic and social systems, and the physical environment over which all of these are superimposed and interact. The course is intended as a General Education social science elective.

GEG 110: Geography of the United States and Canada

This introductory course is designed to give the student an understanding and appreciation of the North American cultural area. Canada and the United States will be analyzed from both topical and regional viewpoints.

GEG 112: Geography of Pennsylvania

Man's cultural and economic development in relation to the factors of his physical environment are analyzed in the land use study of Pennsylvania. The areal extent, value and rise of the state's resources and related problems are studied as well as the need for a well-directed, coordinated program. Field trips are an integral part of this course.

GEG 120: Geography of Sub-Saharan Africa

A comprehensive course of study of the physical and cultural geography of the African continent south of the Sahara Desert. Topics will include, but are not limited to: pre-colonial societies, slavery and colonialism, development issues, environmental problems, the geography of disease and health care, population, and current political geography issues.

GEG 140: Geography of Europe

A regional course emphasizing the economic problems of European nations, it affords an opportunity to study the geographic relationships underlying land utilization, boundary disputes, economic organization, and the dominant international relations of Europe.

GEG 204: Meteorology

Meteorology is the study which deals with the phenomena of the atmosphere. This includes not only the physics, chemistry, and dynamics of the atmosphere, but is extended to include many of the direct effects of the atmosphere upon the Earth's surface, the oceans, and life in general. Students will be given the opportunity to work with the basic instruments used in measuring atmospheric characteristics, learn how those characteristics are coded on weather maps, be presented with strategies to analyze the weather data, and learn the basics of forecasting the weather.

GEG 210: Environmental Conservation

This course examines a wide variety of current environmental issues related to air, land and water resources. Emphasis is placed upon problems and practical solutions. Lectures are integrated with an extensive collection of audiovisual materials and World Wide Web sites.

GEG 212: The Geography of Natural Hazards

The geography of natural hazards examines human landscapes, in areas prone to damaging environmental conditions, i.e., floods, droughts, earth-quakes, severe agricultural frosts, etc. Upon the identification of geographic areas where notable disasters have occurred, a study is made of (1) the individual and societal human responses and decisions, and (2) the resultant land use patterns which have evolved. The student will then examine and evaluate current plans and options designed to reduce future loss of life and property in hazard-prone regions.

GEG 220: Economic Geography

The course will introduce the basic concepts and processes underlying the spatial distribution of economic activities. Natural resource distributions, population patterns and growth, and general development disparities will be examined. The evolution of different types of economic activities over time and space will be considered within the context of technological change, particularly in transportation and communications. Contrasts and comparisons will be made between urban and rural economic activities, and both inter-urban and intra-urban patterns in different regions of the world will be examined. Industrial location will be considered, ranging from the small firm to the multinational organization. International trade and factor movement and world trading patterns will be examined, as well as problems resulting from the globalization of economic activity.

GEG 223: Introduction to Transportation Geography

Transportation and its role in the development of the economic and geographic landscape are analyzed at the national, regional and urban level. This will be accomplished by considering the questions of how, where and why movements occur through geographic space.

GEG 225CMCT: Spaces of Globalization

This course examines the complex array of economic, cultural, and political forces known as globalization. Topics will include the historical roots of globalization, as well as the positive and negative impacts of this diverse phenomenon on cultural, political, environmental, and economic geographies. Emphasis will be not only on the geographic effects that globalization has at the global level, but also the implications that it has for the geography of local places.

GEG 230: Map Reading and Interpretation

This course examines how maps locate, represent, summarize and communicate geographic information. Students develop an appreciation for using maps to learn about physical and cultural landscapes. Emphasis is on the interrelationships of map design, symbolization, and visual communication; functions of map projections; use of coordinate systems of maps; techniques for measuring and calculating scale, distance, direction, slope, elevation, area, volume, and object height from maps; and analysis of spatial trends and landscape change using maps. Students also use the magnetic compass with maps to solve problems of direction and scale. Map critiquing and writing assignments challenge them to evaluate potential misuse and misinterpretation of maps. Laboratory exercises involve analysis of topographic, road, weather, air photo, historical, land use, and zoning maps. This course provides a basis for advanced techniques courses in geography. It is also helpful to education majors concentrating in geography and majors in fields dealing with either physical or human-built environments.

Prerequisites: GEG 10 or GEG 20 or GEL 100 or Permission of the Instructor

GEG 232: Field Methods in Geography

The field course in geography stresses and employs various tools, skills and techniques designed to provide insight into the broad geographical concepts, processes and spatial relationships. Emphasis will be placed upon developing the ability to observe, record, describe and classify pertinent data and information valuable in land use problem solving situations.

GEG 264: Medical Geography

An examination of geographical concepts and techniques as applied to medical issues. Topics to be emphasized include: disease classification and measurement; origin and spread of diseases; major types of diseases; medical maps; and variability in the quality and quantity of health care systems.

GEG 274CPQL: Introduction to GIS

Geographic information systems (GIS) are a major tool for the analysis of spatial data. This course introduces the student to the theoretical, conceptual and practical aspects of the collection, storage, analysis and display of spatial data. The applications of GIS by geographers, educators, scientists, planners, and businessmen to real-world problems will be emphasized.

GEG 304: Weather Analysis

This course introduces the practice of observing and diagnosing synoptic- and meso-scale weather systems and the theories behind the development and movement of these systems. The course culminates on an application of these diagnostic techniques on the various components of the mid-latitude cyclone; including but not limited to, cyclone lifecycles, fronts, and jet streams.

Prerequisites: GEG 10 and GEG 204 and GEG 205 or P:ermission of the Instructor

GEG 310WI: Urban Geography

Urban Geography is concerned with promoting a greater understanding of the development, structure, functioning, and distribution of centers of human social, economic, and political activity, cities, through the application of spatial theories and models of human behavior. Although there are no course prerequisites, this course (as with virtually all other 300-level courses) is not recommended for freshmen.

GEG 322: Climatology

The focus is on causes of climate, climate regions, climate change, and advantages and limitations of climate to human geography. The influences that the climate system has on plants, soils, water supply, human adaptations, urban living, and agricultural economics are examined. This approach provides valuable background material to other advanced courses in geography and to other related courses in the natural sciences. This course is a general education, natural science elective.

Prerequisites: GEG 10 or GEG 204

GEG 323: Global Warming and The Science of Climate Change

This course concentrates on the climatologically and spatial aspects of global warming and the growing importance of the science of global warming to policymakers. The aim is to introduce the causes, methods of analysis, and policy implications of global warming. This course is a general education natural science elective.

Prerequisites: GEG 10 or GEG 204 or GEG 322

GEG 324: Geomorphology

This course involves the study of the evolution of landforms. Tectonic forces, climates and biological forces, the processes of weathering, mass wasting, and erosion in the formation of the surface features of the earth are considered. The interpretation of geologic and topographic maps, laboratory exercises, as well as individual field studies are an important part of the course. Laboratory work and field trips are required.

Prerequisites: GEG 010 or GEL100/101.

GEG 330CPVL: Cartography

This course serves as an introduction to Cartography. The successful student will become proficient in the collection, manipulation, generalization, and the proper visual presentation of geographic data. Emphasis is placed on the proper use of the graphic elements and visual variables, and on appropriate means of data manipulation. Students study the nature of cartography, the geographic coordinate system, map scale, map projections, map design, symbolization, data manipulation, the major classes of maps, and map reproduction. This course is laboratory intensive and emphasizes cartography in the ArcGIS computer environment. (4 c.h., 3 s.h.)

GEG 333: Advanced GIS

Geographic information systems (GIS) are a major tool for the analysis of spatial data. Based on the material covered in Introduction to GIS, this course considers in depth the theoretical, conceptual and practical aspects of the collection, storage, manipulations, analysis and display of spatial data. Laboratory projects involving student use of vector-based GIS systems to develop, implement and analyze geographic databases are required.

Prerequisites: GEG 274

GEG 335: Political Geography

Current world and national problems are analyzed within the framework of systematic political geography. Attention will be focused on world trouble spots, elections, boundary friction, resource allocation, population pressure, and military strategy from a geographical stand-point. Elements of Cultural Geography or a basic Political Science course would be valuable preparation for this course, but are not prerequisite.

GEG 338: Geography of Population

This course is designed to give the student a basic, systematic background in population geography with in-depth analysis of certain selected demographic factors as they specifically relate to areal phenomena. Special attention will be given to selected areas and their current population problems and the geographic factors which have produced or modified these problems.

Prerequisites: GEG 20

GEG 339: Honors Seminar: Human Interaction with Sensitive Environments

Sensitive environments such as the tropical rainforest and the tundra are usually misunderstood by people living in the mid-latitudes. This course will familiarize the student with one sensitive environment and will consider ways in which humans can interact with that environment while maintaining it. The topic will be noted in the master class schedule for that semester.

GEG 341: Environmental Planning

Emphasis on the concepts and techniques used to study and evaluate the air and water environments, solid waste, toxic and hazardous wastes for the purpose of achieving environmental quality. Predominant attention will focus on planning and management principles, but administrative, economic and legal constraints will also receive due consideration.

GEG 343: Land Use Planning

An examination and application of the methods associated with land use planning, especially in the small town and rural context. Emphasis is placed upon the tools and techniques associated with land use planning such as interpretive maps, soil surveys, remote sensors, and computers. Legal aspects of land use planning will also be presented.

GEG 347: Remote Sensing of the Environment

Remote Sensing of the Environment is a course designed to introduce the field of remote sensing, as well as teach you the fundamentals of analysis of remotely sensed images. The primary focus in lecture will be on the variety of remote sensing platforms, the fundamentals of image acquisition, and the physical laws dictating satellite orbits and energy transfers used in remote sensing. In laboratory, the focus will be on applying the fundamentals learned in lecture to analysis data and interpret various types of images.

Prerequisites: GEG 010-Elements of Physical Geography or GEL 100-Physical Geography or permission of the instructor.

GEG 371: Independent Study in Geography

Students who meet minimum qualifications and who can demonstrate a need or purpose will be permitted to pursue study topics within the field of geography at their own pace, but under direction of a member of the geography staff. Topics which parallel current offerings are not acceptable; however in-depth studies of any area or topic can be considered. Minimum qualifications: junior or senior standing, and the completion of 12 semester hours of geography. Permission of the department is required.

GEG 372: Selected Topics in Geography

This course is designed to permit the department to offer a course of study based on the timeliness of the topic. The course content will vary with the topic and the instructor, but a research paper or equivalent will be required. The course may not be repeated for credit.

Prerequisites: GEG 10 and GEG 20 or Permission of the Instructor

GEG 375: Research Methods in Geography

An examination of the research methods of current importance in the discipline of Geography. Topics to be emphasized include: the nature of scientific research; the development and implementation of geographic research design, the acquisition and analysis of data, and the preparation of written reports.

Prerequisites: 24 credits in Geography with a prerequisite or co-requisite of PSY/SOC/POL 200 or MAT 140.

GEG 380CTWI: Senior Seminar in Geography

The major student activity in this course will be discussing, proposing, researching, and writing a Senior Thesis. The successful completion, and acceptance of the thesis by the Department of Geography Faculty, will provide the student with experience in the several areas noted above. As well as being the culminating undergraduate experience for the student, it will satisfy the College of Liberal Arts and Sciences' Comprehensive Examination requirement.

Prerequisites: GEG 375 and 27 or more credits in GEG

GEG 394: Internship in Geography

The student will be placed in a supervised professional work environment with cooperating public or private organizations such as consulting firms as well as local, regional, state, and federal agencies. Periodic conferences with the intern will provide orientation and opportunity for review of issues and procedures relevant to the internship experience.

Prerequisites: Junior or Senior Status (above 60 earned credits) and 24 credits of GEG course work earned with a 2.5 GPA in those GEG courses.

GEG 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis

GEG 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

Geology

GEL 1: Dinosaurs

This course is an introduction to the paleontology of dinosaurs. The evolution, systematics, origin, history of their discovery, and current topics concerning dinosaurs are discussed. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts and Science majors.

GEL 5: Earth Resources and Processes

An introduction to the principles of geology and their application to earth resources and processes. Emphasis is placed on understanding the origins of metallic, non-metallic, and energy resources and the geological factors which influence both natural and man-induced disasters. This course does not count toward graduation credit for Geology, Marine Science or Environmental Science-Geology majors, nor does it satisfy the laboratory science requirement under general education.

GEL 20: Introduction to Geology

An introduction to the study of the earth, physical geology includes the study of the formation of common rocks and minerals, of the structure of the surface of the earth, and of geological processes that create the surface landscape. Human considerations such as energy, mineral deposits and environmental hazards are also examined. Laboratory work includes the study of rocks and minerals, and the study of topographic maps and landforms. This course does not satisfy major, concomitant or specialization requirements for Secondary Education Science and/or Liberal Arts Science Majors.

GEL 31: Geology of the National Parks and Monuments

This course is an introduction to the study of historical and physical geologic principles as illustrated in the National Parks and Monuments of the U.S. The Earth's history, geological surface and subsurface processes and the genesis of igneous, sedimentary and metamorphic rocks are examined. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts and Science majors. Cannot be taken by a student who has already taken GEL 020.

GEL 50: Water Wars

This course is an introduction to the study of hydrology, geology, and scientific principles from the perspective of water as a natural resource. Both surface and subsurface hydrogeological processes are examined in an example-oriented teaching method that incorporates an evaluation of the political and environmental ramifications of each situation. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts and Sciences majors.

GEL 100: Physical Geology

An introduction to earth processes, physical geology includes the study of the formation of common rocks, minerals and economic mineral deposits, the structure of the earth's interior, and geological processes that create the surface landscape. Human and environmental hazards are also examined. Laboratory work includes the study of rocks, minerals, topographic maps, landforms, and geologic maps. Field trips may also be required.

GEL 102: Historical Geology

An introduction to the geological and biological evolution of the earth, historical geology traces the history of the earth as recorded in the rock record. The scientific methods by which geologists interpret the earth history are introduced. Field trips may be required. Required of majors in the Earth-Space Sciences. Offered Spring Semester.

Prerequisites: GEL 100 or GEL 020

GEL 110: Introduction to Oceanography

An introductory course designed to introduce students from diverse backgrounds to the physical, chemical, biological and geological aspects of the oceans and to the methods and techniques of this rapidly expanding field. Emphasis is placed on lab and at-sea assignments which focus the students' attention on the interrelationship and unity of oceanography, and its relation to other environmental sciences.

GEL 200VL: Field Geology

Methods of geological survey involving field practice, interpretation of selected areas, and preparation of maps, and reports. Lectures and laboratories.

Prerequisites: GEL 100-101 and GEL 102-103

GEL 205: Planetary Surface Processes

This course examines the physics of processes that break solid rock into transportable materials and the physical and chemical mechanisms behind the movement and deposition of that material on planetary surfaces. Using quantitative analysis, laboratory, remote sensing, field experiments, and qualitative assessment, this course links the physical and chemical weathering of planetary surfaces, including the fundamentals of fluid flow, sediment transport, erosion, and deposition to processes ranging from microscopic to mountain building. A laboratory course, planetary surface processes focuses on collecting and using actual data sets and applying them to the sedimentary, tectonic, and atmospheric history of a planet.

Prerequisites: GEL 102 or PHY 100 or permission of the instructor.

GEL 210: Environmental Geology

A study of the relationship between man and his geological habitat. Problems that society faces in using the earth are examined, including case histories of natural disasters and human interactions with earth materials. Geo-chemical cycles, geological materials, and land use will be examined as they relate to environmental quality.

Prerequisites: GEL 100 - 101

GEL 220CT: Mineralogy

An introduction to the structure and chemistry of minerals allows development of an understanding of how minerals form and why they have specific physical and chemical properties. Laboratory work emphasizes a wide variety of practical techniques for the identification of minerals both in the lab and in the field.

Prerequisites: GEL 100 - 101

GEL 230WI: Paleontology

This course is a study of invertebrate and lower vertebrate life as revealed in the fossil record. The invertebrate phyla are used to illustrate evolutionary patterns, speciation, and the use of fossils in stratigraphy. The invertebrates and lower vertebrates are treated systematically. Chief emphasis is on organic hard parts. Fossils are collected in the field, then prepared and identified in the laboratory.

Prerequisites: GEL 102-103

GEL 237: Field Methods in Oceanography

A course to familiarize students with the dynamic marine environment and field work on board small research vessels; to instruct in the use and application of standard oceanographic instruments and sampling devices; to promote and encourage independent research through the initial stages of a scientific project.

Prerequisites: GEL or MAR 110-111 or Consent of the Instructor

GEL 302: Economic Geology

All metals, many raw chemicals, and other materials in our daily lives, including glass, ceramic, aggregate, and cement, are won from the earth by mining mineral deposits. Economic geology is the study of how these mineral deposits form within the earth and how we explore them. This course in economic geology will investigate both the processes that form mineral deposits, as well as practical exploration strategies currently used in industry.

Prerequisites: GEL 100 - 101

GEL 304CT: Structural Geology

Structural geology studies the way rocks deform on scales ranging from the microscopic to plate tectonic. This course investigates how rock fold, fracture, and even flow. This knowledge leads to an understanding of how mountain ranges form, where natural resources occur, where groundwater pollutants migrate, and what controls ground stability in construction. The course also explores the history of the earth from a plate tectonics perspective. Projects include both laboratory studies and mapping exercises of deformed rocks in the field.

Prerequisites: GEL 100-101 and GEL 102-103

GEL 316VL: Petrology and Geochemistry

This course introduces the fundamentals of geochemistry in the context of igneous and metamorphic petrology. Understanding the basic principles of the chemical processes within the earth sets the stage for investigations of how magmas form and crystallize, and how pressure, temperature, and fluid-rock interaction change rock mineralogy and texture. Understanding the environments in which rocks form leads to the development of models of geologic processes that form these kinds of rocks. Laboratory work focuses on practical application of these concepts to mapping rocks in the field and studies of rock suites from all over the globe using petrographic microscopes.

Prerequisites: GEL 220 Mineralogy, CHM 100 General Chemistry I.

GEL 320: Optical Mineralogy

The unique interactions between crystals and light allow the use of specialized microscopes for the study of rocks and minerals. This course investigates these fascinating phenomena and applies them toward the microscopic determination of minerals and their intergrowths. Projects focus on basic mineral identification and application of that data toward solving basic petrology problems.

Prerequisites: GEL 220-221

GEL 324: Geomorphology

This course involves the study of the evolution of landforms. Tectonic forces, climates and biological forces, the processes of weathering, mass wasting, and erosion in the formation of the surface features of the earth are considered. The interpretation of geologic and topographic maps, laboratory exercises, as well as individual field studies are an important part of the course. Laboratory work and field trips are required.

Prerequisites: GEG 010 or GEL100/101.

GEL 346WI: Sedimentology and Stratigraphy

The basic composition, transport, diagenesis and distribution of sediments are introduced along with the principles governing the classification, correlation, interpretation, of stratified rocks are presented by means of lectures, laboratory exercises and field trips. Laboratory exercises demonstrate procedures used in analyzing and presenting stratigraphic data. Field trips are employed to introduce the student to stratigraphic principles and local stratigraphic problems.

Prerequisites: GEL 100 and GEL 102 or GEL/MAR366 or Permission of the Instructor

GEL 358CP: General Geophysics

The study of applied near-surface geophysical methods such as gravity, magnetics, seismic refraction, seismic reflection, electrical resistivity, electromagnetic induction, ground penetrating radar, and borehole logging. The laboratory exercises and field work using portable geophysical equipment will familiarize the students with the various methods used to collect and interpret geophysical data. (This course is also offered under the MAR 358 designation.)

Prerequisites: GEL 100 or GEL/MAR 110 and PHY 40/42 or PHY 100/102

GEL 362QL: Hydrogeology

This course deals with the study of the subsurface waters of the Earth, their occurrence, circulation and distribution, their chemical and physical properties and their relation to the geologic environment. The laboratory exercises and field work will familiarize students with various methods used to collect and interpret hydrological data.

Prerequisites: PHY 40 or PHY 100 are pre-requisites. PHY 42 or 102 are co-requisites for which you must be enrolled to take PRIOR to adding this course to your schedule.

GEL 366: Marine Geology

A study of the structural and sedimentary environments of the continental shelf, slopes, and ocean basins. The crustal structure of the earth and its relation to the sedimentary record and geologic history of the ocean is examined. Sampling and laboratory procedures used by the marine geologist are introduced.

Prerequisites: GEL 100 or MAR 110 or permission of the instructor

GEL 368: Research in Geology I

This course involves field, laboratory and library research on a topic of geological nature. The work will be supervised by a faculty member and the research topic will be acceptable to both the supervising faculty member and the student. The combined credit total for Research in Geology I and II is up to 6 semester hours. PREREQUISITE: 12 semester hours of geology courses and consent of the instructor.

GEL 369: Research in Geology II

This course allows a student to continue working on a project which was started in GEL 370 or to investigate a new topic. The work will be supervised by a faculty member and the research topic will be acceptable to both the supervising faculty member and the student. The combined credit total for Research in Geology I and II is up to 6 semester hours. PREREQUISITES: GEL 368 Research in Geology I and consent of the instructor.

GEL 370: Seminar: Selected Topics in Geology

Via independent study or small group seminars, the student learns academic self-discipline and how to gather, interpret, evaluate and collate the large amount of knowledge available in the literature.

GEL 371: Seminar: Selected Topics in Geology

Through individualized instruction or in small group seminars, the student will study a timely or specialized topic in Geology. The most appropriate media of instruction will be chosen to meet the specific goals of student and instructor, and these may include faculty and guest lectures, discussion, problem sets, completion of a review paper, student oral presentations, field trips, and student projects which do not fall into the category of laboratory research. Prior to registration, the student must arrange for a faculty supervisor and obtain the permission of the Department Chairperson. May be repeated for a maximum of 6 total hours credit.

GEL 372: Seminar: Selected Topics in Geology

Through individualized instruction or in small group seminars, the student will study a timely or specialized topic in Geology. The most appropriate media of instruction will be chosen to meet the specific goals of student and instructor, and these may include faculty and guest lectures, discussion, problem sets, completion of a review paper, student oral presentations, field trips, and student projects which do not fall into the category of laboratory research. Prior to registration, the student must arrange for a faculty supervisor and obtain the permission of the Department Chairperson. May be repeated for a maximum of 6 total hours credit.

GEL 373: Seminar: Selected Topics in Geology

Through individualized instruction or in small group seminars, the student will study a timely or specialized topic in Geology. The most appropriate media of instruction will be chosen to meet the specific goals of student and instructor, and these may include faculty and guest lectures, discussion, problem sets, completion of a review paper, student oral presentations, field trips, and student projects which do not fall into the category of laboratory research. Prior to registration, the student must arrange for a faculty supervisor and obtain the permission of the Department Chairperson. May be repeated for a maximum of 6 total hours credit.

GEL 380WI: Senior Seminar in Geology

Readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Geology. Required of all Liberal Arts students majoring in Geology.

GEL 390: Internship in Geology

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized vocationally oriented program which may assist in future career options may structure a work-study experience with the cooperating agency or organization. A proposal outlining the work-study experience should be submitted to the student's supervising faculty member and the department chairperson. Clock hours will be determined by the cooperating agency or organization. Semester hour credit will be based upon the proposal and scheduled clock hours, but a maximum of 4 credits may be applied toward Arts and Sciences electives. Additional credit cannot be applied to the 128 credit hour graduation requirements.

GEL 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis

GEL 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

German

GER 11: Elementary German I

A course for beginners to develop basic skills in pronunciation, aural comprehension, speaking and reading. The selection of course materials emphasizes social and cultural values. Offered in two semesters of three hours each.

GER 12: Elementary German II

A course for beginners to develop basic skills in pronunciation, aural comprehension, speaking and reading. The selection of course materials emphasizes social and cultural values. Offered in two semesters of three hours each.

GER 103: Intermediate German III

Students who have satisfactorily completed six hours of elementary German, or who have had at least two years of German in high school, will continue the development of the basic skills in aural comprehension, speaking and writing, with emphasis on independent readings. Offered in two semesters of three hours each.

GER 104: Intermediate German IV

Students who have satisfactorily completed six hours of elementary German, or who have had at least two years of German in high school, will continue the development of the basic skills in aural comprehension, speaking and writing, with emphasis on independent readings. Offered in two semesters of three hours each.

GER 213: Business German

Business German is the study of German business terminology and phrasing and of the formal aspects of conducting business in German speaking countries. It covers such topics as banking, transportation, telecommunication, and tourism. The study of the geography and sociology of the German speaking countries will be included. Translation, correspondence, and telecommunication skills will be practiced, as well.

GER 230: The German Fairy Tale

This course reintroduces students to Grimm fairy tales in contexts quite different from their reputations as mere bedtime stories for children. The course will treat both well-known and more obscure fairy tales, focusing on their genesis, commonalities, differences, violence, gender bias, and the excisions and revisions undertaken by the Grimm brothers. Feminist and modern reworkings of the traditional tales will also be studied. Tales by other German authors will be examined. (In German)

Prerequisites: GER 211 or 212

GER 232VLWI: The German Graphic Novel

The German Graphic Novel implements the alternative text format as a linguistic and cultural product in order to help students continue building German language skills and cultural knowledge, including history and contemporary cultural trends and criticism. The course is designed to support a cognitive transition between basic courses (100 level) and more advanced literature and cultural courses (300 level). (Taught in German)

Prerequisites: GER 211 or 212

GER 253: German Literature in English Translation I

GER253 This course is an in-depth study in English translation of some outstanding works in German literature. It is devoted to German writers from Lessing to E.T.A. Hoffmann. Its sequel, ENG/GER 254, is a continuation of ENG/GER 253 and treats outstanding writers from Realism through the 20th century. Either semester may be taken independently.

Prerequisites: ENG23, ENG24 or ENG25

GER 254: German Literature in English Translation II

GER254 This course is an in-depth study in English translation of some outstanding works in German literature from Realism through the 20th century. It is a continuation of GER 253. Either semester may be taken independently.

Prerequisites: ENG23, ENG24 or ENG25

GER 260: German Cinema in English

This course investigates German cultural and historical impulses as told through 20th and 21st century German film. Students survey films from selected periods, and discuss predominant themes as well as aspects of film technique that support critical interpretations.

GER 304: German Culture Through Film

This course investigates German cultural and historical impulses as told through twentieth- and twenty-first century German film. Students survey films from selected periods, and discuss predominant themes as well as aspects of film technique that support critical interpretations.

Prerequisites: GER 211 or GER 212

GER 360: Study Abroad Experience

This course permits approved study abroad experiences to be counted in the Student's German major (B.A. and B.S.Ed.), minor or concentration. Prior to an approved study abroad experience, any students majoring in German may, with the input and approval of her/his advisor, request that 1-6 credit hours be granted toward her/his major based on the activities to be undertaken. Any student minoring in German or seeking a concentration in German may request that 1-3 hours be granted based on the activities to be undertaken. Students are required to prepare a written request to the advisor giving a description of activities and a rationale for requesting credit. This course is available only to students majoring, minoring or earning an Elementary Education concentration in German who complete an approved study abroad program and meet evaluation standards approved by the German advisor.

GER 370: Selected Topics In German

Selected Topics in German.

GER 371: Selected Topics In German

Selected Topics in German.

GER 372: Selected Topics In German

Selected Topics in German.

GER 373: Selected Topics In German

Selected Topics in German.

GER 374: Selected Topics In German

Selected Topics in German.

GER 375: Selected Topics In German

Selected Topics in German.

GER 376: Selected Topics In German

Selected Topics in German.

GER 377: Selected Topics In German

Selected Topics in German.

GER 378: Selected Topics In German

Selected Topics in German.

GER 379: Selected Topics In German

Selected Topics in German.

GER 380CDCT: Senior Seminar In German

This course consists of extensive readings, intensive oral work in the form of discussions and in-class presentations, and written paper(s) for the comprehensive exams in German. The content of the course will revolve around solidifying the students knowledge of historical and cultural content. Taught in German.

Prerequisites: 27 Credits minimum completed in GER at 200-level or above

GER 390: International Internship in German

This course is designed for the student wishing to spend an extended period of time abroad or at an approved domestic agency/organization in either an internship situation or non-traditional studies. Students must demonstrate that the internship or non-traditional program will be conducted in the foreign language of study and will be adequately supervised. They must present written details of the program including objectives and method of study, to their academic advisor, for approval prior to the period of study. Students must present a written journal, paper or other material to the Program Director on their return and be prepared to make a presentation about their experiences.

GER 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis

GER 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

GER 470: Selected Topics In German

Selected Topics in German.

Health**HEA 102: Introduction to Health and Wellness**

This course is designed to provide an overview of current issues impacting the health and quality of life of adults, to develop and expand a base of knowledge upon which to make informed health decisions, and to encourage development and implementation of proactive personal health management strategies.

HEA 370: Selected Topics in Health

This course presents an in-depth, analytical study of a selected topic in Health. Content will vary depending upon the timeliness and relevance of subject material, interests of the professor and/or student demand. The course may be taken for credit twice provided the same topic is not repeated.

Prerequisites: Either HPD 110, 115, 116, 120 or permission of the professor.

HEA 380: Independent Study in Health

Independent Study provides an opportunity for students to pursue scholarly activity in an area germane to the discipline of Health Education not covered within the context of a regularly offered undergraduate course in Health or Wellness. Undergraduate students may schedule this course for one to three credits in a single semester, with no more than six credits for Independent Study overall. Permission of the faculty of the Health, Physical Education and Dance Department is required.

HEA 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

History**HIS 14CD: History of Civilization A**

This course will examine the origins, development and interconnectedness of major world societies to ca. A.D. 1600, focusing on the evolution of Western Europe and its importance in shaping the modern world.

HIS 15: History of Civilization B

This course will examine the development and interaction of major world societies from the sixteenth century to the present, focusing on the evolution of Western Europe and its importance in shaping the modern world.

HIS 25: U.S. Formative Years And The Federal Republic

This is an introductory course in American History covering the period from the nation's colonial beginnings to its threatened destruction in the Civil War. The central part of the course deals with the development of American habits of thought, institutions and culture from 1607 - 1865. Focus is given to the development of slavery and the role of men and women from different ethnic groups in shaping the American experience.

HIS 26: History of The United States: The Emergence of Modern America

This is an introductory course in American history beginning with Reconstruction following the Civil War and stressing the emergence of a dominantly urban-industrial society, the expanded role of government and America's increased role in world affairs.

HIS 33: Conspiracies and Modern American History

This course will examine some of the major conspiracies of the past century, such as the Kennedy assassination, the September 11th attacks, and more recent controversies surrounding geoengineering and climate manipulation. The truth is out there. To find it, we will seek out, find, and evaluate the evidence underpinning some of the most important events in modern times.

HIS 36: History of Science: From Ancient to Modern Times

This course will introduce students to the key trends and developments in the history of scientific thought in the Western World.

HIS 72: Selected Topics in History

Study of selected topics in history. Students may take the course for credit an unlimited number of times provided they are different topics.

HIS 106: History and Culture of Turkey

Spanning two continents, Turkey stands as a crossroads of some of the most important historical and cultural trends in the world. This course will explore the cultural history and current developments in Turkey, through readings, lectures and study abroad experience in Turkey itself. Students will gain knowledge of the multiple historical influences on the development of Turkey by visiting major architectural, historical and archeological sites in various parts of the country. Students will also have an opportunity to experience and observe modern Turkish culture through lectures, participation in events, and visits to important Turkish institutions. This course will serve as a basis for a study abroad program in Turkey.

Prerequisites: Permission of Instructor

HIS 111: The World Turned Upside-Down: Early Modern Europe

This course is designed to study the political, economic, social, and intellectual development of Europe in the 17th and 18th centuries.

HIS 112: Revolution, Progress and Conquest: Europe in the 19th Century

This is a survey of political, economic, social and diplomatic developments in Europe from the Congress of Vienna to the outbreak of World War I.

HIS 120: History of Pennsylvania

This course examines Pennsylvania from its colonial beginnings to the present time. Special attention is given to the peculiar institutions and problems of the state, the diversity of the people, and the place of Pennsylvania in the American political and economic scene.

HIS 121: American Environmental History

This course will investigate major trends in the American environmental history from European contact with North America to the present. Focusing on the period after Columbus, this course explores the influence of nature, including climate, topography, plants, animals, and microorganisms, on human history, and the reciprocal influence of people on nature. Field experiences will provide opportunities to learn outside the classroom. Topics include the biological consequences of the European encounter with the Americas, the taming of the wilderness in the colonial era, the environmental impact of technology, the “wise use” ethic of resource management, changing attitudes towards nature at the turn of the twentieth century, and the roots of the current environmental concerns.

HIS 125: America in the Sixties

The course will examine the 1960s, an era that brought great social change to America, and will cover, in depth, the era that began with the election of John Kennedy in 1960 and concludes with the ending of the Vietnam War on January 27, 1973. Social, political and cultural themes will be taught through coverage of topics including: the presidencies of Kennedy, Johnson, and Nixon; the Civil Rights Movement, the Vietnam War and the antiwar movement; the New Left and the Right; the rise of Black political consciousness and radicalism; the countercultural and the surge of the youth culture; the emergence of an array of social movements including feminism, gay liberation, and environmentalism. Attention shall be paid to the music and films that portray contemporary culture. Be forewarned that the materials that will be read and viewed will include language and imagery that one may find disturbing, startling, or shocking and may be seen by today’s standards as ageist, sexist, racist, violent, or even obscene.

HIS 131CD: History of Latin America: Colonial

This course begins with a survey of the Iberian and American backgrounds of the Latin American peoples. This is followed by a study of the Pre-Colombian Indians, exploration and colonization, colonial institutions and the Wars of Independence.

HIS 150CD: Minorities in American History

This course examines the experience of various minority groups - European, Black, Indian, Puerto Rican - in America.

HIS 151CDWI: EAST ASIA to 1800

This course will survey the development of the people of East Asia with special emphasis on their traditional ideas, social trends and political institutions to about 1800.

HIS 155: History of the Middle East

This is a study of civilization that developed in the Middle East, culminating with the zenith of the Ottoman Empire in 1683. Similarities and differences with Western cultures will be stressed. The rise and spread of Islam as the major religion of the area will be of special interest in this study.

HIS 157QL: American Population History

This course traces how the size of population of the territory that now constitutes the United States has changed from the pre-colonial era to contemporary times. Population size reflects migrations, births and deaths. To investigate those three factors, the course explores topics such as the slave trade, war, disease, patterns of economic and sexual behavior and the ways in which gender, ethnicity/race and class are embedded in America's population dynamics. The course utilizes quantitative information as well as other types of evidence. Students need only basic math skills to master the course's quantitative content.

HIS 161CDCT: History of Africa to 1800

This course will survey the development of the peoples of Africa with special emphasis on their traditional ideas, social trends and political institutions to about 1800.

HIS 168: Selected Topics in U.S. History

Study of selected topics in history. Students may take the course for credit an unlimited number of times with different topics.

HIS 169: Selected Topics in European History

Study of selected topics in history. Students may take the course for credit an unlimited number of times with different topics.

HIS 170: Military History of the United States

This course will consider the evolution of the American military system, its employment in domestic and international affairs and its impact on American society.

HIS 172: Selected Topics in African/Middle Eastern/Latin American/Asian History

Study of selected topics in history. Students may take the course for credit an unlimited number of times with different topics.

HIS 204CDCT: Women in African History

This course examines the roles women have played within the diverse African societies and over the long historical periods in Africa. African women, as historical players, will be studied from the origins of early human history to post-colonial Africa. This course will challenge students to understand that gender has been historically conceptualized and that in Africa a diverse range of societies have developed gender systems that accord significant power and prestige to women.

HIS 205: Selected Topics in U.S. History

Study of selected topics in history. Students may take the course for credit an unlimited number of times with different topics.

HIS 206: Selected Topics in European History

Study of selected topics in history. Students may take the course for credit an unlimited number of times with different topics.

HIS 207: Selected Topics in African/Middle Eastern/Latin American/Asian History

Study of selected topics in history. Students may take the course for credit an unlimited number of times with different topics.

HIS 209: The Early American Republic, 1789-1848

This course will investigate major trends in the American history from the election of George Washington to the close of the Jacksonian era, 1789-1848. Attention will focus on significant political, diplomatic, economic, social and cultural developments during the period.

HIS 210: History of Russia and the Soviet Union

This course is a study of the internal development and external relations of Russia, the Soviet Union, and its successor states from the 9th through the 20th centuries. Topics of inquiry include geographic and climatic factors shaping Russian history; early Kievan Rus; religious, political, and economic influences on the development of Russian autocracy; Westernization in Tsarist Russia; reform and revolution in the nineteenth and early 20th centuries; the Soviet system and its cultural borrowings from the past; the East-West confrontation; nationalism and separatism in the Soviet republics; and recent developments in Russia and the Commonwealth of Independent States (CIS).

HIS 215: History of England

The rise and development of England and the British Empire will be surveyed from the pre-Roman era to the twentieth century. The course will emphasize the evolution of British political institutions.

HIS 217: Making of Modern England

This course will present the political, economic, social, intellectual, and religious history of England from 1830 to the present.

HIS 218: The Age Enterprise 1865-1939

Designed to explore the emergence of the United States as a major economic and industrial power, this course examines various factors contributing to its industrial growth, benefits and problems accompanying this development, and consequences resulting from the economic changes.

HIS 219WI: The History of the French Revolution, 1760-1815CE

This course will examine the History of the French Revolution from its origins in the Age of Enlightenment until the collapse of Napoleon's empire (1760-1815 CE). It will have a particular focus on how the French Revolution fits into a context of social and cultural developments throughout the Western world, and how it influenced the development of modern Europe.

HIS 220: Ancient World

This course is a survey of civilization as it emerged and developed in the Ancient Near East, followed by a detailed study of classical Greece and Rome.

HIS 221: Ireland Since 1798

This course will examine the evolution of Ireland from a colony to an independent state. Chronologically the course begins with the 1798 rebellion against English rule and then considers the Great Famine of the 1840s, the War of Independence and the partition of Ireland from 1916 to 1922. Other twentieth-century topics include the Troubles in Northern Ireland and Ireland's membership in the European Union. Thematically the course will focus on the nature of Irish nationalism, the effects of the Irish Diaspora at home and abroad, and the transformation of Ireland from an impoverished colony to one of the richest states in the European Union at the start of the twenty-first century.

HIS 225: A History of the Jewish People in Modern Times

The course begins with an introductory unit focusing on the emergence of the people of Israel and their traditions and the medieval meeting of Christians, Moslems, and Jews. Attention will then turn to an investigation of selected topics in the history of the Jewish people in modern times. Such topics include the socio-economic development of Jewish communities in Europe and America, anti-Semitism in 19th century Europe, Hitler's attempted "final solution" - the Holocaust, and the creation of the modern state of Israel.

HIS 227: History of the Holocaust

This course is a study of the Holocaust in Nazi-dominated Europe. It focuses on Nazism's mass murder of European Jewry and other targeted groups that produced a mosaic of ethnic, social and political victims. Special attention centers on Germany's pursuit of genocide, and how that quest was heavily dependent upon foreign help provided by Nazi allies, vanquished states, and collaborationist governments constituting much of Europe.

HIS 228: A History of Religion in America

This course will trace the religious history of the American people from colonial times to the modern period. It will examine American religious history within the larger frame of world history. Particular attention will be given to the diversity of American religious movements and the role of secular movements and convictions, some of which sought to supplant the churches.

HIS 229: American Urban History

This course analyzes the transformation of American society from a rural to an urban nation. It will examine the roles that cities have played in the United States' economic, social, cultural, and political evolution from colonial times to the present. The course will pay particular attention to the class and gender dynamics, the ethnic/racial conflicts and accommodations, and the reform movements that incubated in American cities and reshaped the nation.

HIS 230: Topics in the History of American Popular Culture

This course examines American popular culture throughout the history of the United States, focusing on popular culture as an important means of public expression and as an indicator of major social trends. By addressing the origins of past cultural events, this course will also provide students with a better historical context to understand the current dynamics of contemporary American popular culture.

HIS 232CD: History of Latin America: Modern

This course is a study of the history of the Latin American nations which have emerged since the Wars of Independence, 1825. Emphasis will be placed on the social, economic, political, cultural, and religious developments of these nations as well as the relationships of these nations to others in the hemisphere and the world.

HIS 233: 20th Century Latin American Revolutions

This course will examine the origins and evolution of five twentieth century Latin American revolutionary movements. It will trace the circumstances that produced rebellion, the ideology that guided them, and the attempts to transform revolution into sovereignty. This course will try to discern common features and important departures that have characterized Latin American revolutions in the last one hundred years. In doing so, it will offer the student a better means to interpret the history of the hemisphere and its people.

HIS 234WI: The History of France, c. 100 BCE to the Present

This course will examine the history of France from ancient to modern times, tracing its course of development from a collection of diverse regions to a modern nation-state. It will give particular focus to France's unique contributions to Western culture and its enormous influence on other nations including the United States.

HIS 235: Europe of the World Wars

This course begins with a survey of European conditions at the opening of the twentieth century. This is followed by a study of World War I and its settlement, the rise of the totalitarian states and their rivalries with the democratic states of Western Europe, the outbreak of the Second World War, the post-war settlement and the beginnings of the Cold War.

HIS 238WI: Europe During the Reformation: 1500-1650 CE

This course will examine the history of Europe during the religious Reformations that occurred between roughly 1500 and 1650 CE. It will focus on the cultural origins and consequences of the reform movements in the Protestant and Catholic worlds, as well as the role of religious violence and warfare in shaping the modern West.

HIS 240CD: African American History

This course examines the Black American experience to present times. Topics for consideration include the African heritage, the slave trade, slavery as an institution, the civil and political status of Blacks during the Civil War and Reconstruction eras, the full development of economic, social and political segregation and the modern protest movement.

Prerequisites: HIS 025 or HIS 026, or 45 College Credits, or permission of instructor.

HIS 241CD: History of Women in America

This course is a study of woman's role in American life tracing her effect on the nation's history.

HIS 243: Business History of US

A study of the historical development and influence of business in the United States from the colonial period to the present with an emphasis on the nineteenth and twentieth centuries.

HIS 244CD: Immigration and Ethnicity in American History

This course surveys the ways in which immigration has helped shape American history from the colonial era to present. The course examines homeland conditions and cultures and the processes of migration that resulted in the "peopling" of America as well as the evolution of ethnicities, races and "American" nationality. While the course emphasizes the pre-1965 period, that emphasis provides a basis for a fuller comprehension of the implications of the post-1965 wave of immigration to the U.S.

HIS 245WI: The United States 1900-1945

This course is a topical examination of modern America from the times of Theodore Roosevelt through the end of World War II focusing on significant domestic, diplomatic, economic and social developments.

HIS 246: The United States Since 1945

This course will investigate major trends in American history from the Second World War to the present. Attention will focus on significant political, diplomatic, economic, social and cultural developments during the period. Selected topics for consideration will include the growth of and challenges to presidential power, America's changing role in world affairs, the meaning for the United States of the war in Vietnam, and the impact of prominent social movements on American society.

HIS 247WI: Work and Workers in American History

This course reviews the work that American people have performed from colonial times to the present and explores the evolving roles played by workers in shaping American history. The course devotes special attention to analyzing ways in which social class interacts with race/ethnic and gender dynamics. Finally, the course explores the ways in which workers have organized and struggled to improve the conditions of their own lives and promote social equality.

HIS 252WI: American Colonial History

This course provides an overview of the founding of the American colonies through 1763. The European influence on the colonial experience will be examined along with the establishment of social, political, and economic institutions.

HIS 254WI: History of China and Japan since 1800

This course will examine the political, social and economic factors which have contributed to the modernization of China and Japan.

HIS 256: The Modern Middle East

This course is concerned with developments in the Middle East in the modern era, with an emphasis on the nineteenth and twentieth centuries. The interaction of the various national and religious groups and their impact on the modern world will be considered.

HIS 257: Introduction to Public History

This course will provide an introduction to selected areas of the public history field for those students who would like to know more about career and employment opportunities outside of academic teaching and research.

HIS 258: China's Golden Age

This course will lead students through the history of China from the Tang through the Qing dynasties. Students will gain a greater understanding of the evolution of Chinese society during this period through a study of political, economic and social developments. This course will also provide students with an in-depth look at this area's involvement in world trade with a particular focus on the region's connection to the West.

HIS 259: America and World War II

This course examines World War II as an event that created U.S. superpower status, prompted a permanent expansion of the federal government in everyday life, and initiated a rights revolution in American society.

HIS 260: Historic Preservation Studies

Students in this class will learn about the origins of the Historic Preservation movement, discover the impact of the 1876 Centennial on sparking an interest in our own history, learn about the development of period rooms in American museums, study the rise of regional historic preservation organizations, become acquainted with the Federal role in historic preservation, understand the rapid expansion of the preservation movement in the 1960s, and discuss the historical and theoretical issues in historic preservation studies.

HIS 261CDWI: History of Africa Since 1800

Africa has played an increasingly prominent role in world history since 1800. Imperialism, the two world wars, decolonization, and the Cold War all had important African phases, as do contemporary issues, such as HIV, ethnic conflict, and the debt crisis in the developing world. This course will provide undergraduates with the historical context to understand current international developments.

HIS 274: Honors: Tudor-Stuart England

The course will examine social and political developments in sixteenth and seventeenth century England, focusing on the changing nature and institutions of power and authority in English society.

HIS 276: The Pennsylvania German Landscape

This course examines the development and evolution of the rural Pennsylvania German landscape from 1682 through the present. Students completing this course shall engage in readings discussions, visit museums, conduct fieldwork, and engage in a hands on restoration project. Students will gain a broad understanding of the social history and visual culture of the Pennsylvania Germans as they study their architecture, rural way of life, decorative arts, and material culture.

HIS 300: Diplomatic History of the United States

This course traces the evolution of American foreign policy from the era of the American Revolution through the post-Cold War contemporary era with a study of the major problems in foreign relations, which arose during that period.

Prerequisites: History of the United States or other evidence that the student has an adequate background in American history.

HIS 303: American Intellectual & Social History to 1865

A study of social reform movements, religion, science, literature, education, and the arts from colonial days of the Civil War.

HIS 310: Constitutional History of the United States

This course is a study of American constitutionalism and constitutional development from the debates of the Philadelphia Convention in 1787 to the civil rights issues of the post-World War II period. Constitutional issues such as states rights, the rights of minorities, and the expansion of executive power will be examined within the context of American cultural and economic development and governmental practice.

HIS 311: Revolutionary America

This course provides a comprehensive study of the period from the French and Indian War to the ratification of the Constitution. It will examine the origins of the Revolution, along with the major social, political, military, and cultural developments of the era.

HIS 325WI: The Middle Ages

This course is a study of the historical evolution of medieval European civilization, focusing on political and religious developments, economic and social changes, and intellectual and cultural achievements.

HIS 328WI: Europe During the Renaissance: 1300-1550 CE

This course will examine the history of Europe during the period commonly known as the Renaissance. It will look at the long-term significance of the culture of humanism, its complex relationship with medieval society, and its role in shaping the modern West.

HIS 335: Civil War and Reconstruction

This course will discuss the crisis of the Ante Bellum period, the conflict of the "War Between the States" and the successes, failures and legacies of Reconstruction.

HIS 341: Problems in Slavery and Abolition

This course is an intensive investigation of the institution of American slavery and the attempts to eliminate it. The course content will emphasize some of the major controversies in historical literature regarding slavery.

HIS 353WI: Communist Revolution in China

This course will examine the history of the Chinese Communist Party (CCP) from its formation in 1921 to the defeat of the Guomindang (GMD) in 1949. Students will gain a better understanding of the political circumstances under which Marxism developed in China, the tensions between the GMD and the CCP, and the development of CCP policies during the 1930s and 1940s. The course will also spread beyond 1949 to consider how close to the original revolutionary ideas China has remained as it emerged as a world economic power.

Prerequisites: HIS 014 or 015 or 151 or 254, or 45 College Credits, or permission of instructor.

HIS 357: The Missionary Enterprise in China

This course will critically evaluate the Christian missionary enterprise in China from the sixteenth century to the immediate post-1949 period. Students will examine the contributions missionaries made to China's development by studying their work in religious and secular enterprises.

Prerequisites: The completion of 30 credits or permission of the instructor.

HIS 368: Selected Topics in History

Study of selected topics in history. Students may take the course for credit an unlimited number of times provided they are different topics.

HIS 369: Selected Topics in History

Study of selected topics in history. Students may take the course for credit an unlimited number of times provided they are different topics.

HIS 372: Selected Topics in History

Study of selected topics in history. Students may take the course for credit an unlimited number of times provided they are different topics.

HIS 378CTWI: Seminar in Historical Methods

The seminar will provide a general introduction to the nature and methods of history. Students will develop and improve their skills in historical research, communication, and methodology. The course is required of all B.A. history majors in their Junior year.

HIS 379: Independent Study in History

Independent Study affords any qualified student the opportunity to pursue a subject in history that either is not treated in sufficient depth to satisfy the student's academic interest or is not addressed in existing history courses. After securing approvals at the department and college levels for a program of study, the student works under the direction of a faculty member who will assign the grade. A student may take six semester hours of Independent Study but only three hours for three credits per semester. This course is restricted to students who have completed at least 24 credits.

Prerequisites: 24 credits completed

HIS 380WI: Senior Seminar in History

Through reading, research, writing and discussion, students will systematically examine significant topics in the history of historical writing, the methodologies employed by historians in their craft and the nature of history as a field of study. They will focus attention, primarily, on various schools of thought and interpretation concerning specific historical problems. This course is a requirement for all Liberal Arts students majoring in History.

HIS 390: History Internship

Internships are designed to give the student a supervised, work-study experience in the functions and day-to-day operations of public or private historical agencies, archives, museums, sites, or businesses. Internships are open to qualified students who have completed 24 credits and are majoring in history or other related fields. The number of semester hours will vary according to the program needs of the student and the requirements of the employing agency, from a minimum of 3 c.h. to a maximum of 15. Approval for an internship requires the completion of a History Department Internship Proposal form for review and approval by the department.

Prerequisites: 24 credits completed

HIS 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

HIS 398: Honors Supplementary Research

Supplementary research conducted by an Honors student in an upper-division (or 300 or 400-level) course in which the student is enrolled. The research is related to a topic in the course, but in addition to the standard requirements of the course, the research should exhibit advanced inquiry or investigation into the topic. The Honors student earns 1, 2, or 3 credits in addition to the credits for the course itself. The number of additional credits depends on the amount and intensity of the supplementary research. Each department in the College of Liberal Arts & Sciences has a specific course number which uses the departmental prefix, but all courses will use a common number (398). The course title will read "Honors Supplementary Research" and will have a variable credit value from 1 to 3 credits, e.g. ENG 398 Honors Supplementary Research.

HIS 423: The American West

This course studies American migration from the Atlantic seaboard to the Mississippi Valley, together with Spanish and French penetrations in the West. The course also examines explorations, acquisition and settlement of the Trans-Mississippi West, and the American Southwest with evaluation of the influence of the frontier and its institutions on the total history of the United States.

HIS 437: Indian-White Relations

This course will deal with Indian-White relations from the first contacts in the late 10th century through the empire-building attempts of the Spanish, Dutch, English and French in North America. Of primary concern is the expansion of the European Frontier at the expense of Indian Tribal lands and culture, and the resulting intra-tribal warfare as the eastern Woodland tribes were removed west of the Mississippi River by the Government Removal Act and Allotment Policy of the 1830's.

HIS 438: United States History Since 1914

This course is designed to investigate selected topics such as World War I, the 1920s, the Great Depression and the New Deal, World War II, post-war America and the Cold War.

HIS 462: Germany in the Twentieth Century

This course is a survey of Germany in the Twentieth Century. Emphasis will be given to major intellectual developments, World War I and the collapse of the Empire, the Weimar Republic and the rise of Hitler, the cataclysm of the Second World War and the divided Germany of the Cold War.

Homeland Security**HLS 100: Homeland Security**

This course explores the many facets of homeland security, including terrorism, critical infrastructure, the environment, public health, the military, intelligence, civil liberties, and the criminal justice system.

Prerequisites: Students who have taken CRJ 310 may NOT register for HLS 100.

HLS 200: Homeland Security & Emergency Management

This course examines the impact of man-made and natural disasters on the homeland, and explores how terrorism has affected American society and the criminal justice system. Both the government and private industry must be able to respond to threats and disasters.

Prerequisites: Students who have taken CRJ 311 may not take this course because it is the same as HLS 200.

HLS 300: Homeland Security and Intelligence

This course examines the role of Intelligence in Homeland Security and the Criminal Justice System. It explores the increasing role of federal, state, local and tribal law enforcement agencies involved in the collection and sharing of several forms of intelligence. Major topics will include: the development of intelligence, the USA PATRIOT Act, the Foreign Intelligence Surveillance Act, and other changes in the law relating to national security and law enforcement intelligence issues.

HLS 310: Terrorism and Counterterrorism

Examination of the history, methods, and causes of terrorism with a focus on homeland security and law enforcement. Review the increased roles of government and business in preventing, investigating, and responding to terrorism.

Prerequisites: HLS 100

HLS 323: Development of National Security and The Judiciary

This course will examine how constitutional law has been raised, defended, defined and avoided both before and after the events of September 11, 2001. This course will examine how the three branches of government currently and have historically addressed the issues raised by threats to the national security of the United States. This course will give students a legal and historical context for understanding the current issues raised by national security needs in a post 9/11 world.

Human Kinetics

HPD 115: Health Maintenance/Nutrition & Exercise

The course is designed for students interested in the theoretical and practical aspects of losing weight or maintaining one's ideal weight. Recent medical and behavioral literature is reviewed and opportunities exist to make application of these theories to one's own health practices. This is accomplished by participation in a wide range of enjoyable activities to increase one's energy output and through discussion

Humanities

HUM 211CDVL: Women in the Arts

This course will provide an overview of women's creative achievements, experiences and status in the visual arts. The focus of this course is on gender; however, issues relating to the intersections of gender with race, class, national origin, ethnicity, age, and sexual orientation will also be discussed. As well, the course will explore the portrayal of women and the way in which cultural definitions of gender shape women's aesthetic expression.

HUM 390: Internship in Literary Studies

This course will provide supervised, practical work experience in the area of literary studies. The internship is available to students who have excellent academic records and who are interested in pursuing a career in literary-related fields. (8 c.h. - 3 s.h.)

Prerequisites: 60 or more credits completed and an overall G.P.A. of 3.0, or permission of advisor and department chair.

Instructional Technology

ITC 300: Instructional Media and Technology

The sensory techniques and materials employed in the learning process together with the principles involved in their utilization are discussed. Skills in specific techniques, criteria used for selecting sensory aids as well as methods of evaluation are studied. Activities include actual production of instructional materials.

ITC 331CPVL: Media and Technology in Education

The sensory techniques, technology and media employed in the learning process together with the psychological principles involved in their utilization are discussed. Skills in specific techniques and the criteria used for selecting technologies of instruction as well as methods of evaluation are studied. Activities include the production and application of instructional media.

ITC 336: Theories & Processes of Instructional Design & Tec

The course will analyze aspects of the instructional design process involved with designing effective technology rich lessons. Starting with a foundation of learning theory principles, and a sensitivity to curricular standards, the course will focus on two or three instructional design models to determine which would be the best to use for a particular design problem.

ITC 362: Digital Citizenship

This course is an introduction to digital citizenship and how it can be supported in K-12 schools and libraries. It provides a basis for understanding digital citizenship, the current trends in this area, and the potential needs students will face in the future. The course will help future educators and technology leaders see the importance of digital citizenship and identify ways it can improve teaching and learning with technology.

ITC 370: Selected Topics Instructional Technology**ITC 380: Independent Study Instructional Technology****ITC 395: Honors; Independent Study/thesis****ITC 433: Synergetic Teaching with Technology**

Student teacher and in-service educators will cooperatively develop and implement technology based instructional modules. Development of the modules will be founded on the technology training and background of the undergraduate participants and the practical pedagogical experience of the in-service participants. While the primary teaming goal is to combine a student teacher and in-service educator, two in-service educators, with prior permission of the instructor, could constitute a synergistic team. Distance learning technologies will be employed to deliver the content.

ITC 446: Development of Multi-Image Productions

The planning, production, and presentation aspects of multi-image productions are studied. The student will participate in all phases of developing a multi-image program. Recommended background: ability to operate a 35mm camera and familiarity with basic photography techniques.

International Studies

INT 10: Introduction to International Studies

Students will examine and analyze contemporary world issues and events. Topics include global interdependence, the environment, modernization, intercultural understanding, nationalism, and international conflict and cooperation. This course is required for the International Studies minor. Offered fall and spring semesters.

INT 101: Intercultural Communication

This course focuses on the newly emerging field of intercultural communication. The essential feature of the course is a presentation of the socio-psychological aspects of interaction among peoples who hold different values and assumptions. It emphasizes the analytic and comparative study of human communication in international settings in order to facilitate the learning of skills and techniques essential for successful cross cultural interaction. Subjects examined include variations and similarities in communication across cultures; the role of beliefs, customs, values, and norms in intercultural communication; and the interrelationships of society, culture, language and communication.

INT 111: International Environmental Issues

This course will examine environmental topics from an international perspective. Emphasis will be placed on selected major environmental problems and their related social, economic and political ramifications. An analysis of the linkages between and among population size and food supplies, living conditions and health, the potential for climate change, water and energy resources, and the role of technology in global interdependence will be presented.

INT 201: Selected Topics in International Studies

This course is an analytical study of a selected topic in international studies. Topics will vary depending upon the timeliness of the subject matter, the interests of the instructor, and/or student demand. The course may be taken for credit twice provided that the same topic is not repeated. 3 semester hours.

Prerequisites: INT 10 or permission of the instructor.

INT 310: European Union Simulation

This course involving the reenactment of international relationships introduces students to the history, policies and structure of the European Union through their class's preparation for and participation in the European Union Simulation held annually in Washington, DC. Each year students assume the perspective of a minister or another delegate on a team of representatives from one country to the European Union. The viewpoint of the member country emerging from this role-play is analyzed in detail in preparation for debates at the Simulation's European Parliament. In addition to a thorough understanding of the member country's political system and the views of its political parties on the social, political, economic or educational issues to be debated, preparation for the three-day simulation also includes studying the historical evolution of the European Union, and an examination of its political, social, economic, and institutional dynamics. A participation fee is required.

Prerequisites: INT 10 or permission of the instructor.

INT 375: Independent Study in International Studies

The Independent Study allows for individualization of the curriculum to meet legitimate, specialized needs of students through studies outside of the focus of existing courses within their programs. Under direction of a faculty member approved by the Director of International Studies, the student will investigate an area of academic interest that fits in one of the four major theme areas of the International Studies Minor.

Prerequisites: INT 010, plus one additional, INT course (six semester hours of INT completed).

INT 380: Seminar in International Studies

Under the supervision of selected faculty, students will be encouraged to integrate their studies from their major program with their minor area of concentration (international studies). Students will pursue a research project in their areas of interest and experience as evidenced by the courses they selected to fulfill the basic requirements for the minor in International Studies. Students will have the opportunity to discuss their research in class as well as to explore timely issues in international studies.

INT 390: International Studies Internship

The internship is designed to provide students with first hand, practical experiences in a variety of International contexts. An internship will normally consist of an overseas project or an appropriate domestic project having a substantial international component. Examples include working for an international agency at an overseas site, for the United Nations and for a domestic agency servicing immigrants or refugees. The internship is open to students with a declared minor in International Studies who have completed sixty-four credit hours (Junior status) by the start of the internship. Minors may take the internship for three or six semester hours.

INT 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

Library Science

LIB 125: Microcomputers in Education

The course presents undergraduate education students with a basic knowledge of how to effectively utilize microcomputers in education. Students are involved in "hands-on" experiences with computer operation and software programs that include word processing and desktop publishing, graphics, spreadsheets, databases, authoring systems and telecommunications. Microcomputer technologies utilized in the contemporary classroom are examined. No previous knowledge or experience with microcomputers is necessary.

LIB 130: Folk Literature and Storytelling

A study of the principles of selection, adaptation and techniques of story-telling. Includes practical experience in storytelling to groups and planning story hour programs. A survey of folk literature, mythology, fables and modern stories provide the basis for stories to tell.

LIB 221CDWI: Resources for Children

This course is an introduction to the basic principles, practices and resources needed for the selection and development of a collection for children (print and non-print) in the school and public libraries. The course includes a survey and critical evaluation of children's literature as well as exploration of techniques for using materials in library and curricular settings.

LIB 222WI: Resources for Young Adults

This course is designed as an exploration of print and digital resources that are relevant to the young adult and indispensable to public and school libraries. Students will study the evolution of young adult literature and resources, and young adult library resource and emerging genres, integration of digital resources, and young adult library resource promotional programs. Students will be reading young adult titles, writing, and sharing professional-style corresponding reviews based on the Children's Literature Comprehensive Database guidelines. Young adult library program activities will be examined.

LIB 310: English Language Learners in the Library

This course focuses on considerations including collation development, accessibility, and activities and/or instruction to address the information needs of the English Language Learner.

LIB 313: Cataloging and Classification of Information

This course is an introduction to the theory, concepts, and procedures of analyzing and organizing various formats of information including print and digital. Knowledge and skills are applied in a practical, hands-on lab environment.

LIB 326: Technologies in Libraries

This course is an overview of current and emerging technologies for libraries (i.e., integrated library systems (ILS), Internet, digital library resources, peripheral equipment and networks). Students will be introduced to the practical use of technology in libraries, and learn how to evaluate individual technologies. They will recognize the importance of a librarian's involvement in the overall technology program.

LIB 329: Instructional Strategies for the School Librarian

Students in this course will investigate the pedagogies, theories of educators and school library experts, and the perspectives that frame standards-based education. The focus will be on classroom management strategies and effective teaching strategies that will help the library science candidate meet the needs of diverse learners. Fieldwork: 30 hours.

LIB 350: Reading Interests of Adults

This course focuses on the critical evaluation and analysis of print and digital resources for adult library users. Emphasis is given to reading interests and popular culture.

LIB 358: Reading Strategies for Librarians

This course is an introduction to the school librarian's role in ensuring students' reading success. The roles include the selection of materials that address the diverse needs of the learners including English Language Learners, identification of resource materials that serve as tools for interactive think-alouds, and reinforcement of reading strategies within the information literacy curriculum.

LIB 362: Digital Citizenship

This course is an introduction to digital citizenship and how it can be supported in K-12 schools and libraries. It provides a basis for understanding digital citizenship, the current trends in this area, and the potential needs students will face in the future. The course will help future educators and technology leaders see the importance of digital citizenship and identify ways it can improve teaching and learning with technology.

LIB 380: Independent Study in Library Science

Independent Study is based on a student's pursuit of a subject in Library Science not covered within a regularly offered undergraduate course in Library Science.

Undergraduate students may schedule this course for one to three credits in a single semester, with no more than six credits for Independent Study overall. Permission of the faculty of the Library Science Department is required.

Prerequisites: College of Education majors only

LIB 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

LIB 405: Genealogical Research

Genealogical Research prepares students to assist patrons as they perform genealogy research, define family history writing objectives, and produce genealogy results for professional or personal needs in both traditional and electronic formats. The course is designed for librarians and other researchers interested in family histories.

LIB 420: Library Resources for Preschoolers and their Families

This course will provide an introduction to the development of the child from birth to age six, focusing on language acquisition and emerging literacy. It addresses the role of the family, care-givers and library in developing early literacy skills. The course will focus on library program planning, selecting of materials, and outreach and programming for preschool audiences, their families and care-givers.

LIB 440: Selected Topics in Library Science

Topics that are of current interest in the field of librarianship will be selected for in-depth study. Course content will change each time the course is offered. The course may be repeated once for credit. (Permission of the instructor.)

LIB 471: Information Analysis and Retrieval

The basic principles and tools for information analysis and retrieval are considered in relation to database analysis, terminology control, question analysis, search strategy development, conducting searches, and the delivery of search results.

Prerequisites: LIB211

Library and Learning Technologies**LLT 118: Introduction to Information Search Strategies & Digital Literacy**

Intended for a general education audience, this course explores information search strategies for successful research of student chosen topics. Software applications that support research, such as bibliographic generators, and collaborative listservs will also be discussed. Furthermore, this course will explore the impact of students' online presence and help them become more digitally literate to maximize their professional strengths.

LLT 200: Foundations of Information Science

This course explores historical approaches to knowledge gathering, theoretical foundations for the creation of organizational systems and current practices for organizing and efficiently retrieving knowledge. Historical and contemporary innovators and their contributions will be discussed. This class will explore the most commonly utilized organization systems in libraries, archives and information centers including classificatory schemes, finding aids and metadata. This class will also consider the variety of environments in which an information professional may be employed, including public, school, academic and special libraries, corporations, historical societies and museums and discuss the different roles, ethical practices, and responsibilities of professionals in these environments.

LLT 310: Information Resources and Services

This course presents the fundamental knowledge associated with the delivery of reference services to library users. The primary emphasis is on the evaluation, selection, and utilization of information sources used in reference service to respond to ready reference, research, and reader's advisory questions. Information sources will be identified, categorized, and contrasted to identify their chief values in providing reference service.

LLT 317: Integrating Assistive Technology into the K-12 Curriculum

Intended for pre-service teachers, this course explores research-proven strategies for using technology to assist those who have learning differences beyond those addressed by regular instruction and curricula. Discussions of research studies, awareness of innovative software and hardware that allows for greater flexibility in the learning environment, and development of useful course materials will provide teachers with a toolkit to implement and assess which technologies may maximize students' strengths.

LLT 321CPVL: Technologies for the 21st Century Educator

This course explores teaching and learning with technology. Students will develop a variety of technology-based teaching and learning resources to support face-to-face, blended and on line learning environments.

LLT 324: Librarian's Role in Reading Strategies

This course is an introduction to the school librarian's role in ensuring students' reading success. The roles include the selection of materials that address the diverse needs of the learners including English as Second Language Learners, identification of resource materials that serve as tools for interactive think-alouds, and reinforcement of reading strategies within the information literacy curriculum.

LLT 330: Makerspaces and Technology Enhanced Programming

This course explores the evolution of the Makerspace movement as it applies to STEM and STEAM education. Students will investigate and actively engage in the facility, tools, resources, and technology as components that translate into creative project-based learning.

LLT 340: Management of Information and Technology Centers

This course provides an overview of management theory, policy and practice with an emphasis on the role of the librarian or technology coordinator as manager in library, school, academic and independent information center settings.

LLT 342: Public Librarianship

This course exposes students to the organization and operation of the public library. This includes administrative and financial control, governmental relationships, personnel management, administration of services, standards, buildings and equipment, library extension services, current and emerging technologies, resource sharing, fundraising, and public relations.

LLT 345: Problem-Based Learning Through Instructional Technology

The goal of this course is to prepare education students to effectively integrate instructional technologies into the K-12 curriculum. Students will construct a theoretical foundation and rationale for integrating instructional technologies. Integration models and successful teaching strategies will be examined.

LLT 350: Collecting and Curating Print and Digital Collections

This course provides an overview of the processes, policies, and procedures associated with developing, evaluating, and utilizing a library collection. Emphasis is placed on the development of a working philosophy which recognizes the interrelationships of principles, policy, and management. The basic techniques and materials used by librarians to provide reference and readers' advisory services in a library will be introduced.

LLT 360: Organization of Information, Metadata and Library Technologies

Through the use of an Integrated Library System (ILS) students will learn the essential components of library management functions using the technology of circulation, cataloging and classification, and use of necessary reports. Students will learn how to create metadata to apply to online cataloging and classification as it pertains to various and emerging text and digital resources. With the focus on the librarian's role as a technology leader this course is also an overview and evaluation of current and emerging technologies for libraries.

LLT 364: Preservation, Digitization, and Archiving

This course introduces current theory and practice in the areas of preservation and digitization of library materials. Primary topics are: environmental standards for archival areas; storing, organizing and cataloging special collections; repair and stabilization of paper-based items; digitization of unique materials; metadata standards; and online exhibition of images.

LLT 365: Emerging Technologies for Educators

Students will explore a variety of emerging Internet options suitable for use in the classroom and library settings. Students will discuss the history, theory, communication facilities, and educational activity structures relevant to the process within a standards based educational setting. The Internet will be the primary resource examined.

LLT 370: Educational Program of the Library

This course is designed to focus on the curriculum-related responsibilities of the library program. Emphasis is placed on information and digital literacy instruction and curriculum support services. The role of the librarian as teacher, technology leader, collaborator, and program administrator in the contemporary school, public, and academic library program is investigated.

Prerequisites: College of Education majors only

LLT 385: Digital Portfolios

The goal of this course is to prepare and present an electronic professional portfolio that demonstrates the students' accomplishments in the graduate program. This is a culminating course for the program. The role of portfolios, standards, and reflection in education will be examined, as well as the types and components of portfolios. Students will investigate technologies that enhance electronic portfolios.

LLT 390: Internship

This course is designed to provide experience in the practical application of library and information center routines and procedure under the supervision of a qualified professional. The student is required to spend 40 hours per credit in a library or information center under the direction of a qualified professional. This course can be taken for 1-9 credits and is repeatable up to a total of 9 credits.

Prerequisites: Take LIB 109 and LIB 211

LLT 398: Clinical Experience and Practicum I

The clinical field experience provides the prospective school librarian the opportunity to observe and participate in the school library program under the guidance of a certified school librarian. This experience is designed in two phases (I and II within one semester). Candidates are scheduled in both elementary and secondary school libraries during these phases. Concurrent with each phase is a practicum which provides for an exchange of ideas, information, and assistance from their peers and the supervising teacher.

Admission to this course is limited to those candidates who have completed the necessary program requirements. These requirements have provided the candidate with knowledge base domains in liberal education, teaching specialty knowledge, and professional education knowledge. (6 s.h., 3 c.h.)

Prerequisites: College of Education majors only

LLT 399: Clinical Experience and Practicum II

The clinical field experience provides the prospective school librarian the opportunity to observe and participate in the school library program under the guidance of a certified school librarian. This experience is designed in two phases (I and II within one semester). Candidates are scheduled in both elementary and secondary school libraries during these phases. Concurrent with each phase is a practicum which provides for an exchange of ideas, information, and assistance from their peers and the supervising teacher. Admission to this course is limited to those candidates who have completed the necessary program requirements. These requirements have provided the candidate with knowledge base domains in liberal education, teaching specialty knowledge, and professional education knowledge. (6 s.h., 3 c.h.)

Prerequisites: College of Education majors only

Management

MGM 210: Principles of Management

Management 210 is an introduction to the field of management, giving a basic understanding of the processes of working with people and resources to accomplish organizational goals. In today's business world, great executives not only adapt to change, but also apply the fundamental management principles of planning, organizing, leading, and controlling. This course explores the nature and application of these fundamental principles in the present environment of globalization, technological change, and increased competitiveness. The course is not to be taken until students have completed 45 credits.

Prerequisites: Open to College of Business majors (excluding Sport Mgm) or Business minor with 42 credits earned.

MGM 315: Management Science

This course presents various quantitative techniques and models which are being utilized in today's modern business organizations. Coverage areas include model formulation, Markov theory, PERT/cost networks, linear programming (simplex method), the transportation model, and inventory control. It will employ test and case situations to provide the student with decision making experience as well as exposure to concepts necessary for successful management in the present complex and dynamic business environment.

Prerequisites: MGM 210 & BUS 120

MGM 318: Women in Management

This course examines issues which women face in the workplace particularly in managerial careers. Issues include stereotyping, sexual harassment, mentoring, mobility, compensation, employee relations, child care, and dual careers. The course emphasizes issue awareness and development of potential strategies which would facilitate change and promote equality in the workplace. Cases and experiential exercises are an integral part of the course.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 327WI: Small Business Management

A study of the rewards and problems experienced in starting and operating a small business. Emphasis is placed on those aspects of management, marketing, accounting, and finance that are uniquely important to small firms.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 335CM: Human Resource Management

Human resource management (HRM) involves the development and maintenance of an effective workforce in an organization. Students will consider the legal framework affecting various HRM functional areas such as human resource planning, human resource development, performance management, compensation, and employee relations.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 337: Management of Labor Relations

Emphasis is placed upon the identification and analysis of the mechanics of the relationship between labor and management. The theory and environmental factors that affect the quality and content of union management relations will also be studied.

Students study the history, legal and institutional framework, strike tactics, and contract administration process as they apply to management options.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 338: Management of Compensation and Benefits

This course examines the issues associated with the design and delivery of an organization's total compensation system of pay and benefits. Students will learn the legal framework affecting these compensation systems, the design of internally and externally consistent pay systems, the federal mandatory benefits such as Social Security, and employer sponsored discretionary benefits such as paid time off, retirement, and health insurance.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 340: Management of Staffing, Training and Development

This course will examine how to determine recruitment needs and objectives and the internal and external sources of applicants. The various aspects of the selection process will be studied along with the legal ramifications associated with that process. Training and development needs will be analyzed in light of an organization's goals, objectives, and strategies as well as federal legislation such as the Americans with Disabilities Act. Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) and Economics minors with a 2.0 GPA in the Business Core courses and ECO 11 & 12 or Economics minors with ECO 11 & 12

MGM 345: Organizational Theory and Design

An examination of intraorganizational patterns, processes and structures. The class focuses on how an organization's environment and technology interact with its structure and processes (such as decision making, power and politics, and organizational culture) to impact its performance. This course surveys concepts, theories and techniques that aid in analyzing this complex relationship.

Prerequisites: MGM 210

MGM 350: Organizational Behavior in Management

This course examines the interaction and interdependence between the formal organization and its members, emphasizing how human behavior and organizational processes can be integrated to achieve organizational effectiveness. The course draws on research in management and from psychology, sociology, and anthropology, to explore individual, interpersonal, group and organizational issues.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 351: Operations Management

This course is designed as an introduction to the operation problems of a business organization with emphasis on the decision making function of the manager. This course takes an analytical approach to important operational issues, including forecasting, capacity planning and allocation of resources (linear programming), quality control, inventory management, scheduling, and project management.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 352CD: International Management

This course presents an analysis of the unique managerial problems encountered by international, multinational and global business enterprises. Emphasis is placed on the economic, technological, socio-cultural and political aspects of multinational operations and their effects on the managerial objectives, processes and strategic decision-making.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 360: Business and Social Environment

A study of the environmental factors that interface business decision-making in contemporary society. A conceptual framework is developed to analyze and integrate the social, governmental, and economic issues that impact on the business community. Cases form an integral part of the course.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 361: Principles of Business Logistics

This course gives students knowledge of logistics principles and functions and enables them to apply this knowledge in enterprises and organizations of all types. It surveys all the fundamental elements of the supply chain and provides a framework for analysis and understanding of logistics systems. It addresses organization and functions of the elements of the supply chain, processes within the supply chain, and strategic issues, including globalization of supply chains.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 362: Supply Chain Planning and Management

This course is an examination of the strategic importance and practical application of supply chain design, planning, and operation for every firm. It addresses the value of supply chain management as a source of competitive advantage for the firm. The course considers the value of information in the supply chain; risk pooling, and strategic partnering; and the role of centralized decision making. The course emphasizes current practice and trends in developing and managing information and material flows throughout the supply chain.

Prerequisites: Successful completion of Business Core coursework, MGM 210 and MKT 210.

MGM 363: Transportation Management

This course is a study of the systems used to move goods and people and their role in business and the economy. It addresses the economic and operational characteristics of the domestic and international transportation modes, intermodal operations, transportation prices and rate theory, the management of for-hire and private transportation resources, the procurement of transportation services, and regulatory and public policy issues.

Prerequisites: ECO 012, MGM 210, or permission of the instructor.

MGM 371: Selected Topics in Management

This course will permit the exploration of specialized subjects that are not covered in the regular management classes. The course will emphasize a variety of current topics and contemporary issues in management which are taking place in a dynamic business environment. Students will review current literature, observe current management practices and improve their ability to analyze and express their thoughts in the area.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 380WI: Senior Seminar in Management

The course serves as a capstone experience for students majoring in Management. The course consists of two components. The first is the students' participation in a computer-based simulation game which integrates the major functional areas of business: accounting, finance, production, marketing and economics. The game allows the student to enter the dynamic world of business within a simulated environment and make decisions as if they were a manager. The second component of the course are seminar activities focusing upon advanced special topics of concern to the world of management as selected and determined by the particular instructor.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MGM 210

MGM 399CTWI: Business Strategy and Policy

This is the capstone course for all Business majors. Concepts and skills developed in the prerequisite courses are integrated and applied to the overall management of an organization. This course is also a study of the determination and implementation of strategies by top management. Emphasis is placed on the integration of corporate, international, business unit, and functional areas strategies of modern business organizations. Topics will include setting objectives, designing strategic plans, allocating resources, organizational structuring and controlling performance.

Prerequisites: Open to BSBA majors with 84 credits, MGM 210, MKT 210, FIN 350 & MGM 351 or by permission of the department chair

Marine Science

MAR 50: Window to the Oceans

This is a course in marine biology designed for the non-science major. Students will be introduced to the major groups of marine organisms, diverse coastal habitats, adaptations and distribution of organisms within marine habitats, and the potential for human impact on marine organisms and the environment. Current discoveries and "hot topics" within the field of marine biology will also be discussed. Laboratory work will include hands-on experience with sampling methods and equipment from both shore-based and boat-based platforms, general identification of marine plants and animals, and first-hand observation of different coastal habitats, their residents and unique adaptations. This course will be taught at the Marine Science Consortium in Wallops Island, VA. (3 s.h., 4 c.h.; this course is also offered with the MAR prefix.)

MAR 110: Introduction to Oceanography

An introductory course designed to introduce students from diverse backgrounds to the physical, chemical, biological and geological aspects of the oceans and to the methods and techniques of this rapidly expanding field. Emphasis is placed on lab and at-sea assignments which focus the students' attention on the interrelationship and unity of oceanography, and its relation to other environmental sciences.

MAR 210: Sophomore Seminar

This course provides students with fundamental skills necessary to be successful in the marine sciences. The course covers the identification and analysis of scientific literature, data analysis and presentation, research presentations, and scientific writing skills. It also provides early career guidance for students in the marine sciences with respect to pursuit of an advanced degree or the process of finding a job right after graduation. Offered every fall semester.

Prerequisites: MAR 110; 30 or more credits; or permission of the instructor.

MAR 226CTWI: Marine Biology

A study of the major groups of marine organisms, their adaptations and distribution within the marine environment. Laboratory work will include methods of sampling, identification, experimental manipulations, and a weekend field trip.

Prerequisites: Take BIO 104 with a "C" or better and either BIO 106 or BIO 108 or permission of the department chairperson.

MAR 237: Field Methods in Oceanography

A course to familiarize students with the dynamic marine environment and field work on board small research vessels; to instruct in the use and application of standard oceanographic instruments and sampling devices; to promote and encourage independent research through the initial stages of a scientific project.

Prerequisites: GEL or MAR 110-111 or Consent of the Instructor

MAR 250: Wetland Ecology

The ecology and management of wetland wildlife, particularly of freshwater marshes and saltwater marshes. Special emphasis on ecosystem approach.

MAR 260: Marine Invertebrates

A study of the life history, habits, origin, development, physiology, anatomy and taxonomy of the main phyla of invertebrates. A phylogenetic sequence is followed to show interrelationships among the phyla. Special emphasis is given to the Atlantic marine invertebrates. Laboratory and field work deal with collection, preservation, and identification of local species.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

MAR 280: Field Biology

An introduction to basic principles of ecology and natural history of selected plants and animals in terrestrial, freshwater, and marine environments. Course is suitable for non-science majors.

MAR 298: Selected Topics in Marine Science

A selection of individual topical courses developed to present information in a specific area of study. Course titles vary depending upon needs and interests to the students and expertise of the faculty. May be repeated for a total of six credit hours.

MAR 320WI: Physiological Ecology of Animals

This course will provide an introduction to the physiology of animals utilizing a comparative and ecological approach. The course will cover the topics of respiration, circulation, metabolism, osmoregulation, thermoregulation, locomotion, and sensory systems in the context of comparing the mechanisms and strategies utilized by animals from different habitats and phylogenetic groups. Some emphasis will be placed on organisms occupying various marine habitats, but freshwater and terrestrial animals and habitats will also be included. Laboratory investigations will examine the physiological responses of both invertebrates and vertebrates to common environmental stresses such as salt load, temperature variation, oxygen supply, and pH change. These investigations may be accomplished through measurements and observations in the field, as well as through experimental manipulations in a laboratory setting.

Prerequisites: BIO 106 and CHM 214

MAR 326: Marine Ecology

A study of the ecology of marine organisms, the relationships of plants and animals to the physical, chemical and biological factors and their zonation and community structure. Analysis of current issues in marine ecology will also be addressed. Laboratories will include classroom investigations of population and community relationships and a MANDATORY weekend field trip to Wallops Island, VA.

Prerequisites: Take BIO 104 with a "C" or better and either BIO 106 or BIO 108 or permission of the department chairperson.

MAR 331: Chemical Oceanography

This is the study of sea water, oceanic particulate matter and sediments in the context of chemical cycles, especially cycles of carbon dioxide, nutrients, metals and radioisotopes. Correlations are made between chemical cycles having periods from years to thousands of years and biological and physical processes. Correlations are made between chemical cycles having longer periods and geochemical processes. Measurements of the concentrations of major ions, trace elements and nutrients in sea water are made by wet chemical and physical methods.

Prerequisites: CHM 100, CHM 102, MAR 110 or consent of the instructor.

MAR 338: Ecology of Marine Plankton

A study of the phytoplankton and zooplankton in marine and brackish environments. Qualitative and quantitative comparisons will be made between the planktonic population of various types of habitats in relation to primary and secondary productivity. This course will be offered summers at the Marine Science Consortium, Wallops Island, Virginia.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

MAR 340: Marine Mammals

The distribution, population size, physiology, evolution, adaptations and ecological relationships of marine mammals will be studied with an emphasis on mammals of the Atlantic Ocean. This course will stress hands-on understanding of marine mammal physiology, behavior, population dynamics, and species diversity. Laboratory and field work will include an extended off-campus field trip to facilities holding and/or studying marine mammals of the NE Atlantic Ocean. In addition, the laboratory portion of this course will emphasize data collection in the field, and subsequent analysis and presentation of the data through a required mini-research project.

Prerequisites: Five courses in biology at the 100-level or above excluding BIO 130 and BIO 140; and at least junior class standing prior to the start of the course or permission of the instructor.

MAR 342: Ichthyology

A study of the fishes. Specimens collected along our Eastern Seaboard by the student will be used to illustrate the anatomy, physiology and systematics of this major vertebrate group. Field collections will also give the student the opportunity to observe the relationships of these animals to their biotic and physical environment.

Prerequisites: BIO 104 & BIO 106

MAR 344: Marine Botany

A study of marine and marine fringe plants of the Middle Atlantic Coast, their taxonomy, ecology, distribution, life histories, physiology, and economic status. Techniques of collecting, preserving, identifying and herbarium cataloging will be stressed. Exercises in plant ecology, deep core pollen analysis and marine microbiology will be included. (Same as MAR 342: Marine Botany at Consortium, Wallops Island, Virginia.)

Prerequisites: BIO 104 with a grade of "C" or better & BIO 108

MAR 346WI: Sedimentology and Stratigraphy

The basic composition, transport, diagenesis and distribution of sediments are introduced along with the principles governing the classification, correlation, interpretation, of stratified rocks are presented by means of lectures, laboratory exercises and field trips. Laboratory exercises demonstrate procedures used in analyzing and presenting stratigraphic data. Field trips are employed to introduce the student to stratigraphic principles and local stratigraphic problems.

Prerequisites: GEL 100 and GEL 102 or GEL/MAR366 or Permission of the Instructor

MAR 348: Biological Oceanography

The interdisciplinary study of the interactions between biological communities and the ocean environment as observed in the distribution of coastal plankton, fish and benthic invertebrates. Field studies of sample populations will be compared to quantitative environmental variables using state-of-the-art sampling equipment. Topics covered include: the effect of current transport on plankton at barrier island passes, the effect of submarine banks on fish populations, ground truth data for satellite imagery, and epibenthic population studies of nearshore and intertidal environments. This course will be offered summers at the Marine Science Consortium, Wallops Island, Virginia.

Prerequisites: Take BIO 104 with a "C" or better and either BIO 106 or BIO 108 or permission of the department chairperson.

MAR 350: Sedimentation

The basic composition, transport, diagenesis and distribution of sediments are introduced by means of lectures and laboratories.

Prerequisites: GEL 100 and GEL 102 or GEL/MAR366 or Permission of the Instructor

MAR 352: Coral Reef Ecology

A study of coral reef types and the relationship of reef organisms to their environment. Emphasis is given to species diversity/identification, symbiosis, and effects of abiotic factors, predation, and competition on the abundance and distribution of coral reef organisms. A segment of this course involves on-site study of the biology of tropical reefs/organisms and the accumulation of species populations data usually at Roatan, Bay Islands, Honduras, but other reef locations may be used.

Prerequisites: Four courses at the 100-level or above excluding BIO 130 and BIO 140

MAR 358CP: General Geophysics

The study of applied near-surface geophysical methods such as gravity, magnetics, seismic refraction, seismic reflection, electrical resistivity, electromagnetic induction, ground penetrating radar, and borehole logging. The laboratory exercises and field work using portable geophysical equipment will familiarize the students with the various methods used to collect and interpret geophysical data. (This course is also offered under the MAR 358 designation.)

Prerequisites: GEL 100 or GEL/MAR 110 and PHY 40/42 or PHY 100/102

MAR 360: Anatomy of Marine Chordates

A course designed to familiarize the students with the qualitative aspects of the speciation process; to lay the groundwork for understanding the basic and specialized structure of marine chordates; to trace the most obvious or important trends (and their functional significance) in the evolution of this basic structure in various vertebrate lines. The laboratories will be devoted in large part to a reasonably thorough dissection of representative marine vertebrates.

Prerequisites: BIO 104 with a grade of "C" or better & BIO 106

MAR 364: Physical Oceanography

This course is a study of the physical properties of the oceans which include: mass and energy budgets; the cause, nature, measurement, analysis and prediction of tides, currents and waves, and basic instrumentation used in field work.

Prerequisites: MAR 110 & PHY 040/042 or PHY 100/102 & MAT 105 & 106 or MAT 115 or MAT 271

MAR 366: Marine Geology

A study of the structural and sedimentary environments of the continental shelf, slopes, and ocean basins. The crustal structure of the earth and its relation to the sedimentary record and geologic history of the ocean is examined. Sampling and laboratory procedures used by the marine geologist are introduced.

Prerequisites: GEL 100 or MAR 110 or permission of the instructor

MAR 370: Independent Research in Marine Science

This course is designed to allow a student to study individually in a specialized area under the direction of a faculty member. The research topic must be appropriate to the student's background and approved by the faculty member directing the student.

MAR 380: Senior Seminar in Marine Science

Readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Marine Science. Required of all liberal arts students majoring in Marine Science.

MAR 390: Internship in Marine Science

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized vocationally oriented program which may assist in future career options may structure a work-study experience with the cooperating agency or organization. A proposal outlining the work-study experience should be submitted to the student's supervising faculty member and the department chairperson. Clock hours will be determined by the cooperating agency or organization. Semester hour credit will be based upon the proposal and scheduled clock hours, but a maximum of 4 credits may be applied toward Arts and Sciences electives. Additional credit cannot be applied to the 128 credit hour graduation requirements.

MAR 395: Honors Independent Study/Thesis
Honors Independent Study/Thesis.

MAR 398: Honors Supplemental Research
See Page 166 of Course Catalog.

Marketing

MKT 210: Principles of Marketing

Principles of Marketing is a broad study of the field of marketing as seen from a managerial perspective. Emphasis is on demand analysis, customer need satisfaction, product planning and development, distribution selection, promotional decision making, price determination and social responsibility. This course is not to be taken until students have completed 42 credits. BSBA majors only.

Prerequisites: Open to College of Business majors (excluding Sport Mgm) and Advising minors with 42 credits earned and ECO 11 & 12 successfully completed.

MKT 312WI: Consumer Behavior

This course is a study of the processes of planning, purchasing and the consumption of goods and services by consumers. The course examines the links between behavioral concepts, marketing strategy and consumer decision making. The influences culture, subculture, group dynamics and intra-personal on decision-making will be emphasized. The focus of the course is the application of consumer behavior to the elements of strategic marketing - including market segmentation, product positioning, product development, marketing communications, distribution and pricing. Social and ethical considerations of marketing responsibility to consumers will also be addressed.

Prerequisites: Open to College of Business majors (excluding Sport Mgm) and Advertising minors with a 2.0 GPA in the Core course work and MKT 210

MKT 315: Marketing Ethics in Society

This course will explore the fundamental concepts and practical applications of marketing ethics. The global ethical environment of market exchanges has remained a constant issue in terms of both strategic and short-range marketing activities. In addition, ethical standards and institutional relations will be assessed from the perspective of various social science elements including: culture, religion, society, ethnic distinction, socio-economic factors, and language.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MKT 210

MKT 320: Marketing Management

This course emphasizes managerial decision-making and problem-solving in the areas of channels distribution, integrated marketing communication, product, and pricing. Focus is on the concepts and techniques organizations and businesses employ to anticipate and satisfy customer needs and wants.

Prerequisites: Open to student is the College of Business majoring in any BSBA program who has successfully completed Business Core with a 2.0 GPA, MKT 210, and 84 credits of completed coursework.

MKT 330CM: Personal Selling

The course approach is personal selling with emphasis on developing techniques of professional selling in areas involving personal sales positions. Personal Selling focuses on basic theory, functions, principles, practices, techniques, applications, sales demonstrations and presentations.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MKT 210

MKT 340: Retail Management

This course is a study of the administration and control of retail merchandise operations, or their equivalents, in the offerings of services. It covers the fundamental principles of store management, location, selection and training of personnel, budgeting, buying and processing merchandise, pricing, and sales promotion. In addition, some attention is given to the increasing role and numbers of service and not for profit retailers.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MKT 210

MKT 347: New Product Management

This course is intended to provide the student with an opportunity to develop an understanding of marketing decision making for new and mature products. Students will review current literature and improve their ability to analyze and express their thoughts in the area. The course emphasizes the role of strategic market planning, organizing and planning new products, the new product development process and marketing program, new service development, controlling and managing the product or service line, and the future of new product management. Textbooks, readings and group projects will be utilized in order to develop a total concept of new product management.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MKT 210

MKT 350: Advertising Management

This course emphasizes planning, implementation and control of promotional communications. The primary focus is directed towards providing the student with practical experiences and knowledge to develop effective promotions. Areas of concentration include the marketing communication process, basic media choices and strategy, target markets, creation of advertising, creative strategy, audience analysis and buyer behavior, developing advertising campaigns and social, ethical and legal aspects. Prerequisites: Open to College of Business majors (excluding Sport Mgm) and Advertising minors with a 2.0 GPA in the Core course work and MKT 210

MKT 351: Media Concepts and Planning

Media Concepts and Planning is developed and designed to increase the student's ability to analyze media problems and to solve those problems via media solutions. Emphasis of this course will be on media planning, although major media concepts will also be covered. In addition, media formulas and media research will be addressed. Media and culture will also be explored as will controversial issues in media and promotion. Prerequisites: Open to College of Business majors (excluding Sport Mgm) and Advertising minors with a 2.0 GPA in the Core coursework and MKT 210 & MKT 350

MKT 357: Advertising Campaigns

This will be an upper-division advanced advertising course. The course will be based on theoretical and pragmatic approaches to developing effective advertising campaigns. In general, the student will gain a theoretical background on advertising campaigns, and develop and implement an actual campaign. The course will culminate with an entry into the American Advertising Federation's (AAF) National Student Advertising competition. There are more than 120 colleges and universities involved in this competition. The AAF is the only advertising organization that has a branch involved in student education. Prerequisites: Open to College of Business majors (excluding Sport Mgm) and Advertising minors with a 2.0 GPA in the Core coursework and MKT 210 & MKT 350

MKT 358: Marketing Communication Management

This course considers the managerial impact of Marketing Communications (MARCOM); public relations/publicity; sales promotion, advertising, cyber-marketing and direct marketing; personal selling; and the impact of the promotional mix on marketing communication. Prerequisites: MKT 350 & MKT357

MKT 360: Marketing Research

Marketing Research is the systematic and objective search for and analysis of information relevant to the identification and solution of problems in the field of marketing. The course deals with how information is supplied that is required on a continuing basis for developing and adjusting marketing strategies and tactics; for identifying problem areas; and for providing feedback for management control. This course utilizes both project-type and marketing information as they are needed for decision making.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MKT 210

MKT 361: Principles of Business Logistics

This course gives students knowledge of logistics principles and functions and enables them to apply this knowledge in enterprises and organizations of all types. It surveys all the fundamental elements of the supply chain and provides a framework for analysis and understanding of logistics systems. It addresses organization and functions of the elements of the supply chain, processes within the supply chain, and strategic issues, including globalization of supply chains.

Prerequisites: MGM 210

MKT 362: E-Commerce Marketing

The course will explore the fundamentals, concepts, and practical applications of business marketing on the Internet. The student will learn the process of marketing planning for Internet-based business, including an understanding of (1) the forces that shape e-commerce; (2) the various ways that revenue streams can be developed via e-commerce; and (3) how to develop and implement an e-commerce business plan.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MKT 210

MKT 370CD: International Marketing

International Marketing is a study of the process of focusing the resources and objectives of an organization on global market opportunities. The course shall take a broad conceptual approach to the marketing management problems, techniques and strategies necessary to incorporate the marketing concept into the framework of the world marketplace. Emphasis is placed on the necessity of program as well as the problems of competing in markets of different cultures. World-wide consumerism as well as the inherent social and ethical issues which arise when a multinational corporation ventures into foreign cultures will be addressed.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MKT 210

MKT 371: Selected Topics in Marketing

This course will permit the exploration of specialized subjects that are not covered in the regular marketing classes. The course will emphasize a variety of current topics and contemporary issues in marketing which are taking place in a dynamic business environment. Students will review current literature, observe current marketing practices and improve their ability to analyze and express their thoughts in the area.

Prerequisites: Open to majors in the College of Business (excluding Sport Mgm) with a 2.0 GPA in the Business Core courses and MKT 210

MKT 379: Independent Study in Marketing

The Independent Study allows for individualization of the marketing curriculum to meet the specialized needs/interests of students through studies outside of the focus of existing courses. Under the direction of a faculty member from the Marketing Department, the student will investigate an area of academic interest, to be approved by the department. (1-3 s.h.)

Prerequisites: Open to Marketing majors with MKT 210 and 6 additional credits at the 300 level. Only 3 credits can be earned via Independent Study to meet degree requirements.

MKT 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

Prerequisites: Open to Marketing majors with a 2.0 GPA in the Core coursework and the completion of MKT 210

Mathematics**MAT 3: Intermediate Algebra**

The topics include a review of the real number system, linear equations and applications, linear inequalities and absolute value, graphs and functions, exponents, polynomial functions, factoring, rational functions, root functions, exponential and logarithmic functions. Students who have previously received credit for a higher-numbered mathematics course may not receive credit for this course without permission of the instructor. This course does not fulfill the mathematics requirement in general education but may be used as a free elective.

MAT 17: Introduction to Mathematics

The goal of this General Education introductory-level course is to acquaint the student with the nature and spirit of mathematics – terminology, fundamental principles, generalizations, and their application to problem solving –through study of a broad spectrum of topics. The underlying thrust of the course will be to bolster the students' analytical and critical thinking skills, and to develop the ability to effectively communicate the rationale behind this thinking. Areas of coverage will include Problem Solving Strategies and Techniques, Set Theory, and at least three additional appropriate areas of Mathematical Inquiry. Applications of the mathematical concepts and techniques taught in this course will also be illustrated. This course cannot be used by mathematics majors to fulfill mathematics major program requirements.

Prerequisites: Students **MUST** take the ALEKS placement exam to enroll for this class, **OR** be enrolled by the Math Department directly with that department's permission.

MAT 40: Geometry

An informal, intuitive study of topics in geometry. Non-metric geometry of the plane and space; measurement; error in measuring; simple closed curves; area; congruence; similarity; graphing in the plane and space; modern geometries; groups of geometric transformations. Open to all majors.

Prerequisites: Students **MUST** take the ALEKS placement exam to enroll for this class, **OR** be enrolled by the Math Department directly with that department's permission.

MAT 45: Women In Mathematics

This course examines women and minorities who have made significant contributions to the field of mathematics. Both their lives and their work will be explored as well as gender and multicultural issues surrounding their endeavors. Furthermore, mathematical topics related to their contributions will be discussed.

MAT 89: The Art of Mathematics

This General Education introductory-level course will examine mathematics as art. The work of both historical and contemporary mathematicians will be studied with a focus on their content and form as well as those who influenced their mathematical work.

Mathematical topics related to their contributions will be discussed with an emphasis on developing an appreciation of the beauty of mathematics. This course cannot be used by mathematics majors to fulfill mathematics major program requirements.

MAT 103: Fundamentals of Mathematics I

This is the first course in a two-course sequence that is required for all Elementary Education and Special Education majors. It is restricted to only Education majors or permission of the department. Topics include problem solving; logic; set theory; mathematical systems; systems of numeration; number theory; equations and inequalities; and properties of whole numbers, integers, rational numbers, and real numbers. A calculator is required for this course. This course cannot be used by mathematics majors to fulfill mathematics major program requirements.

Prerequisites: This class is intended for Education majors ONLY. Students MUST take the ALEKS placement exam to enroll for this class, OR be enrolled by the Math Department directly with that department's permission.

MAT 104QL: Fundamentals of Mathematics II

This is the second course in a two-course sequence that is required for all Elementary Education and Special Education majors. It is restricted to only Education majors or permission of the department. Topics include informal geometry; measurement; probability; statistics; and computer applications. A calculator is required. This course cannot be used by mathematics majors to fulfill mathematics major program requirements.

Prerequisites: MAT 103 with a grade of "C" or better

MAT 105: College Algebra

Topics include properties of the real numbers, problem-solving using equations and inequalities, algebraic functions, graphing, and systems of equations. A graphing calculator is required for this course. This course cannot be used by mathematics majors to fulfill mathematics major program requirements. This course is designed for students who have two years of high school algebra.

Prerequisites: Score 46 or higher in ALEKS exam

MAT 106: Trigonometry

This course is intended for students with an elementary knowledge of algebra who need more work in trigonometric topics before taking more advanced mathematics courses. Topics include properties of and operations with functions, inverse functions, exponential and logarithmic functions, angle measurement, trigonometric functions and their inverses, graphing functions, and problem solving with equations that use the functions covered in the course. This course cannot be used by mathematics majors to fulfill mathematics major program requirements. This course is designed for students who have completed MAT 105-College Algebra or have a minimum Math SAT score of 500. A graphing calculator is required for this course.

Prerequisites: MAT 105 or a score of 61 or higher on the ALEKS exam.

MAT 115: Precalculus Mathematics

This course is designed to give students a thorough review of the mathematics background needed for calculus courses. The course covers all the topics listed in the descriptions of MAT 105 and MAT 106. A graphing calculator is required for this course. Prerequisites: A score of 61 or greater on the ALEKS exam.

MAT 121: Mathematics for Business and Information Science

This course focuses on the application of mathematical concepts and methods to problems that arise for students who major in Business or Computer Science. The topics include systems of linear equations, matrix algebra, linear programming with graphical and simplex method solutions, mathematics of finance, set theory and probability. This course cannot be used by mathematics majors to fulfill mathematics major program requirements. This course is designed for students who have completed MAT 105- College Algebra or have completed a minimum of two years of high school algebra. A graphing calculator is required for this course.

Prerequisites: MAT 105 or MAT 106 or MAT 115 or MAT 181 or a score of 61 or higher on the ALEKS exam

MAT 122: Applied Calculus

This course focuses on the application of concepts and methods of calculus to problems that arise for students who major in Business or Computer Science. The topics include functions and models; differential and integral calculus; applying derivatives, differentials, and integrals to problem-solving; and applied optimization. This course cannot be used by mathematics majors to fulfill mathematics major program requirements. A graphing calculator is required for this course.

Prerequisites: MAT 105 or MAT 106 or MAT 115 or MAT 121 or MAT 181 or a score of 61 or higher on the ALEKS exam

MAT 123: Discrete Mathematics

This general Education course is an introduction to discrete mathematics, a branch of mathematics that solves problems such as finding the probability of being dealt a straight flush in 5-card poker, protecting financial information from hackers, and enabling error-free communication with astronauts in space. Course material is drawn from areas of mathematics such as number theory, combinatorics, probability, and abstract algebra. This course serves students who are interested in introductory mathematics that is not in the same vein as precalculus and calculus.

MAT 140QL: Applied Statistical Methods

This course is an introduction to quantitative methods as applied to statistical reporting and data analysis. It will incorporate some or all of the following: Techniques for obtaining, analyzing and presenting data in numerical form; measures of central tendency and dispersion; the normal distribution curve; standard scores; applicability of probability and sampling theory to statistical research; interpretation of confidence intervals; hypothesis testing; correlation; linear regression. Students cannot receive credit for both MAT 140 and MAT 150. This course cannot be used by mathematics majors to fulfill mathematics major program requirements. This course is designed for students who have completed MAT 105-College Algebra or have completed a minimum of two years of high school algebra. A graphing calculator is required for this course.

Prerequisites: MAT105 with a grade of "C" or MAT 106 or MAT 115 or MAT 181 or 61 on the ALEKS exam

MAT 150: Introduction to Biostatistics

This course is an introduction to the study of Biostatistics intended for students of the life science disciplines. It is an overview of the statistical methods for obtaining, analyzing and presenting data in numerical form that are most often used in the area of life sciences. A problem-based approach using real data in various life science fields will be used to illustrate various statistical procedures as well as basics of elementary applied statistics. Students cannot receive credit for both MAT 140 and MAT 150. This course cannot be used by mathematics majors to fulfill mathematics major program requirements. This course is designed for students who have completed MAT 105-College Algebra or have completed a minimum of two years of high school algebra. A graphing calculator is required for this course.

Prerequisites: MAT105

MAT 175: Mathematical Investigations

This course is applicable in the Honors Program and is open to any student in the honors program as well as to any student having completed at least 15 s.h. of study at Kutztown University with a grade point average of 3.00 or greater. This course, divided into three to five segments, provides for study of concepts, procedures and applications in several mathematical disciplines. Topics studied will be drawn from the following areas: mathematical thought processes, history of mathematics, mathematics of finance, statistics, operations research, number theory, graphs as mathematical models, and finite geometries. This course cannot be taken for credit by mathematics majors in Secondary Education or the College of Liberal Arts and Sciences. Credit for the course can be applied in Categories IV or V in General Education.

MAT 181: Calculus I

This course is one of a series intended for students who major in mathematics, the sciences, or engineering. The topics include the definition and calculation of limits, continuity and differentiability, differentials, derivatives of algebraic and transcendental functions, the application of derivatives to graphing, antiderivatives, and the introduction of the definite integral, applications of definite integrals; and some techniques of integration. A graphing calculator and use of a Computer Algebra System are required for this course. At least two years of high school algebra and/or trigonometry is strongly recommended.

Prerequisites: MAT 106 or MAT 115 or a score of 76 or higher on the ALEKS exam

MAT 182: Calculus II

This course is one of a series intended for students who major in mathematics, the sciences, or engineering. The topics include the definition, properties, and applications of definite integrals, properties, derivatives, and integrals of exponential, logarithmic, trigonometric, inverse trigonometric, and hyperbolic functions with applications; techniques of integration; indeterminate forms and improper integrals; sequences, series, and convergence tests; differentiation and integration of power series; and polar integrals. A graphing calculator and use of a Computer Algebra System are required for this course. Prerequisites: MAT 181 with a "C" or better.

MAT 190: Introductory Directed Reading in Mathematics

This course involves individual independent study in mathematics under the direction of a mathematics faculty member. This study can be carried out in any area of mathematics or its application that is not a topic covered in depth in any regular mathematics course offering at the University. The student works with a faculty tutor who advises the student in choice of material. The student meets with the advisor frequently to discuss the topic studied. This course may be repeated for a total of up to 2 credits cumulative and for a total of up to 6 credits cumulative combined with credits from MAT 290, 390, and Math 490.

Prerequisites: Permission of the instructor and permission of the department.

MAT 210CMCP: Mathematical Computing and Typesetting

This course is an introduction to mathematical computing and typesetting. Topics will include the syntax and programming interface of a computer algebra system that is commonly used in mathematics, methods to solve mathematical problems, and document preparation in the typesetting language LaTeX. The computer algebra system will be used to solve problems drawn from algebra, calculus, differential equations, probability, statistics, discrete mathematics, and modeling. Problems may involve root-finding, solving equations, splines, graphics, power series, numerical integration, numerical approximations of solutions of differential equations, mathematical modeling, data analysis and curve fitting, cryptography, graph theory, number theoretic computations, and possibly others depending on the interests of the students and instructor.

Results from the projects will be typeset in LaTeX.

Prerequisites: MAT 182 with a grade of "C" or higher AND CSC 123 with a grade of "C" or higher OR CSC 135 with a grade of "C" or higher

MAT 220: History of Mathematics

This course explores the development of mathematics over a period of four millennia--from the time of ancient civilizations to the present. It studies how diverse cultures from almost all parts of the world—Babylonia and Egypt, Greece, China, India, The Middle East, Europe and later the Americas, have contributed to the growth of the discipline of mathematics. This course addresses mathematical methods that were used and contributions that were made by specific mathematicians and cultures. The diverse perspectives at different periods of history that contributed to, and at times hindered, the growth of mathematics are studied.

Prerequisites: MAT 181 with a "C" or better.

MAT 224WI: Foundations of Higher Mathematics

This course is designed to prepare the student for the study of advanced mathematics. Topics include fundamentals of logic, proof strategies, the algebra of sets; relations, including equivalence relations; functions and their properties; countable sets and counting techniques; ordered and well-ordered sets. This course should be taken only after the student has taken at least two college-level mathematics courses.

Prerequisites: MAT 171 or MAT 181 with a grade of "C" or better.

MAT 230: Statistics**MAT 240: Synthetic Geometry**

This course is designed for students who have, in addition to an interest in geometry, some previous experience in this subject area, either on the high school or college level. Topics include Euclidean geometry using Hilbert's axioms; neutral geometry; the historical development of non-Euclidean geometries; and hyperbolic geometry.

Prerequisites: a MAT 224 with a "C" or better.

MAT 260: Linear Algebra I

This course gives the student an opportunity to make an in-depth investigation of a specialized area of mathematics which has wide-spread practical applications in the arts and sciences but still allows work with abstract concepts. Topics include a study of the properties of vector spaces; matrix theory with applications using systems of equations and determinants; linear transformations and invariants under such mappings. Students will be required to use appropriate computer software.

Prerequisites: MAT 224 or CSC225; with a grade of "C" or better

MAT 270: Biostatistics

This course focuses on enhancing students' abilities in problem solving in statistics with a concentration on applications to biology. The course is a calculus-based course in biostatistics emphasizing methods for collecting, graphing, examining, and interpreting data. The course provides both the theoretical framework and the analytical tools for performing data analysis. Special emphasis will be placed upon using available statistical methods for both exploratory and confirmatory data analysis. Topics include discrete and continuous random variables, mean and variance, hypothesis testing and confidence limits, nonparametric methods, Student's t-test, analysis of variance, correlation, and ordinary least squares. It may include a subset of further topics which may include, but not be limited to, contingency table analysis, random effects models, mixed models, regression, sensitivity and specificity.

Prerequisites: MAT 182 with a grade of "C" or better.

MAT 280: Cooperative Internship in Mathematics

The internship consists of 6 to 12 weeks of full-time employment that provides students with a supervised industrial experience in mathematics. The internship is supervised by a member of the Mathematics and Computer Science Department. This internship is available only to Mathematics majors, and is taken on a pass/fail basis. (3 - 6 s.h.)

MAT 283: Calculus III

This course is one of a series intended for students who major in mathematics, the sciences, or engineering. The topics include vectors in two and three dimensions; operations on vectors; limits, derivatives and integrals of vector functions; three-dimensional surfaces; the definition, properties, and partial differentiation of functions in more than one variable with applications; finding the extrema of functions in two variables; Lagrange multipliers; multiple integrals in various coordinate systems; Jacobians; line integrals in vector fields; and the application of Green's Theorem, The Divergence Theorem, and Stokes' Theorem. A graphing calculator and use of a Computer Algebra System are required for this course.

Prerequisites: MAT 182 with a grade of "C" or better.

MAT 290: Intermediate Directed Reading in Mathematics

This course involves individual independent study in mathematics under the direction of a mathematics faculty member. This study can be carried out in any area of mathematics or its application that is not a topic covered in depth in any regular mathematics course offering at the University. The student works with a faculty tutor who advises the student in choice of material. This course may be repeated for a total of up to 2 credits cumulative and for a total of up to 6 credits cumulative combined with credits from MAT 190, 390, and 490.

Prerequisites: MAT 224, permission of the instructor and permission of the department

MAT 300: Problem Solving in Mathematics

This course focuses on enhancing students' abilities in problem solving in mathematics and presenting their ideas effectively through writing down logical proofs in a precise and concise manner. This course will discuss problems coming from a broad range of topics, including but not limited to, precalculus, calculus, analysis, and linear algebra. This course is designed for students with a strong desire to solve challenging mathematical problems.

Prerequisites: MAT 260 with a grade of "C" or better.

MAT 301: Probability and Statistics I

Elementary probability spaces; conditional probability; general probability spaces; random variables; expectation; variance; multivariate distributions; the algebra of expectation.

Prerequisites: MAT 224 or CSC 225 with a "C" or better ; and MAT283 with a "C" or better

MAT 302: Probability and Statistics II

Probability distributions; sampling; estimation of parameters; Central Limit Theorem; confidence intervals; correlation and regression; sampling from a normal population; testing hypotheses; Markov chains. Students will be required to use appropriate computer software.

Prerequisites: MAT 301

MAT 305: Mathematics Of Finance

This course is an introduction to mathematics of finance. The main topics include measurement of interest, time value of money, annuities, amortization and sinking funds, bonds, capitalized cost, net present value, yield rates, yield curves, duration, immunization. A financial calculator (BA II Plus or BA II Plus Professional preferred) is required for this course.

Prerequisites: A grade of C or better in MAT 283

MAT 306: Mathematics of Finance II

This is an introduction to financial mathematics and is a continuation course of Financial Mathematics I. The main topics include bonds, capitalized cost, net present value, yield rates, yield curves, duration, immunization, derivative products including calls, puts, forwards, and swaps. A financial calculator is required for this course.

Prerequisites: MAT 283 with C and MAT 305

MAT 311: Abstract Algebra I

Sets, relations, and functions; groups; rings; integral domains; fields; elementary theory of groups.

Prerequisites: a MAT 224 with a "C" or better.

MAT 312: Abstract Algebra II

Extension of Abstract Algebra I topics; permutation groups; normal sub-groups and quotient groups; rings and ideals; ring homomorphisms; quotient rings, integral domains and their fields of quotients; fields; polynomial rings.

Prerequisites: MAT 311

MAT 321: Combinatorics

This is an introductory course in combinatorics. Topics include introductory and advanced counting techniques, graph theory, and selected topics chosen from recurrence relations, generating functions and integer partitions, and extremal combinatorics.

Prerequisites: a MAT 224 with a "C" or better.

MAT 330: Theory Of Numbers

This is an introductory course in number theory. The topics covered begin with divisibility and factorization, the Fundamental Theorem of Arithmetic, prime numbers, greatest common divisor, and least common multiples. The course continues with congruences and arithmetic functions. The remainder of the course introduces one or more advanced topics such as quadratic residues, primitive roots, Diophantine equations, continued fractions, and cryptography.

Prerequisites: a MAT 224 with a "C" or better.

MAT 332: Numerical Analysis

Numerical methods fundamental to scientific computing are developed. Topics include finite difference calculus; zeros of a function; matrix computations; solutions to systems of linear equations; approximation by polynomials; numerical differentiation and integration; numerical solutions of ordinary differential equations; rounding errors and other types of errors. Selected algorithms will be run on the computer. Students will be required to use appropriate computer software.

Prerequisites: MAT 260 & MAT 273

MAT 337: Introduction to Cryptography

The course is an introduction to cryptography, the study of securing communication and information. This course will cover the mathematical, algorithmic, and historical aspects of classical and modern cryptography. We will also introduce students to personal encryption software as well as programming libraries and computer algebra systems that allow one to perform large computations necessary for cryptographic applications. Topics will include classical and modern symmetric ciphers, public-key cryptography (e.g. RSA), various cryptographic protocols, and any other topics of interest to the instructor and students. All necessary theoretical background will be reviewed, but some background in number theory, abstract algebra, probability, or computer science will be expected.

Prerequisites: MAT 224 or CSC 225 with a grade of "C" or better and at least one MAT or CSC course at the 300 level or higher with a grade of "C" or better.

MAT 340: Differential Equations

In this course students will develop an understanding of the basic theory, applications and connections of linear algebra and differential equations. Topics include: first, second, and higher order ordinary differential equations; methods of solutions include exact, substitution reduction, undetermined coefficients, variation of parameters, power series solutions, the Laplace Transform, and system of linear differential equations.

Consideration is given to applications to the physical and natural sciences. Students will be required to use appropriate computer software.

Prerequisites: MAT 260 or PHY 245; and MAT 283; both with a grade of "C" or higher

MAT 351: Real Analysis I

Introduction to the structure of the real number system and its topology; metric space and its topology; basic theorems of real analysis; differentiable functions.

Prerequisites: Completion of MAT 224 and MAT 283 (or MAT 273) with a grade of C or higher.

MAT 352: Real Analysis II

Introduction to the theory of Reimann-Stieltjes integration; functions of bounded variation; Lebesgue measure and Lebesgue integrals; uniform convergence of sequences and series of functions.

Prerequisites: MAT 351

MAT 361: Mathematical Methods in Operations Research I

Operations Research uses quantitative methods to determine the best decision for an operating system. A mathematical approach to studying methods as applied to the decision process in industry is taken. The methods studied are selected from among: linear programming; game theory; graph theory and network analysis. Students will be required to use appropriate computer software.

Prerequisites: MAT 121 or MAT 260 or by permission of the instructor.

MAT 362: Mathematical Methods in Operations Research II

Operations Research uses quantitative methods to determine the best decision for an operating system. A mathematical approach to studying methods as applied to the decision process in industry is taken. The methods studied are selected from among: linear programming; game theory; integer programming; graph theory and network analysis; nonlinear programming; and metaheuristics. Students will be required to use appropriate computer software.

Prerequisites: CSC 135 and MAT 361 or by permission of the instructor.

MAT 365: Math Problem Seminar**MAT 369: Introduction to Graph Theory**

This course is an introduction to the theory of graphs. The main topics include definitions and examples of graphs and subgraphs, trees, connectivity, Euler tours and Hamilton cycles, matchings, edge and vertex colorings, planar graphs, directed graphs, networks, and its applications.

Prerequisites: MAT 260 with a grade of "C" or better.

MAT 370: Selected Topics in Mathematics

This is a seminar in advanced topics of mathematics. Content will vary dependent upon interest of instructor and students, and the course may be repeated once for additional credit.

MAT 372: Independent Study and/or Projects in Mathematics

This course involves individual or small group independent study in mathematics under the direction of a mathematics staff member. This study can be carried out in any area of mathematics or its application. A student may register for this course more than once up to a maximum of six semester hours of credit.

MAT 380WI: Senior Seminar in Mathematics

Readings and discussions in areas of student interest and background. The student reviews and structures the mathematics he/she has learned and also explores mathematical topics not covered in the usual course offerings. The comprehensive examination for Arts and Sciences Mathematics majors is given in conjunction with this course. Required of all arts and sciences mathematics majors.

MAT 390: Directed Reading and Research in Mathematics

This course involves individual independent study in mathematics under the direction of a mathematics faculty member. This study can be carried out in any area of mathematics or its application that is not a topic covered in depth in any regular mathematics course offering at the University. The student works with a faculty tutor who advises the student in choice of material. This course may be repeated for a total of up to 4 credits cumulative and for a total of up to 6 credits cumulative combined with credits from MAT 190, 290, and 490.

Prerequisites: MAT 224, MAT 283, permission of the instructor and permission of the department.

MAT 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

MAT 400: Complex Variables

This is an introductory course in Complex Analysis. Topics include properties of complex numbers, analytic functions, mappings, contour integrals, Cauchy's residue theorem, and the geometric properties of complex functions.

Prerequisites: MAT 283 with a grade of "C" or better

MAT 403: Analysis of Data Sets

This course continues the development of the concepts and procedures of MAT 230 or both MAT 301 and MAT 302 with an emphasis on practical applications to science, business, and industry. A review of basic statistical concepts, regression analysis, categorical data analysis, analysis of variance, and nonparametric statistics will be presented. Up-to-date examples using computer statistical packages will be used. The student is expected to apply the above techniques to real-world problems. Students will be required to use appropriate computer software.

Prerequisites: MAT 302 or with permission of the instructor.

MAT 431: Topology I

Set theory; functions; metric spaces; basic topological concepts; topologies and neighborhood systems; open and closed sets; accumulation points and closures; bases and subbases for a topology; separation and connectedness; nets; continuity and homeomorphisms; compactness; product and quotient spaces.

Prerequisites: MAT 172 and MAT 311

MAT 451: Introduction To Fractals

Through hands-on activities, computer experiments, visual readings, discussions, and lectures, this course will examine the concepts of iteration, fractals, and chaos, as well as the history and people involved in this fascinating field. The course will begin by looking at the basic concept of iteration: repeatedly applying some specified operation. Iteration leads naturally to, among other things, the geometric representation of a fractal, self-similarity, fractal dimension, and the notion of mathematical chaos. Students will learn concepts from classical mathematics and ways in which these concepts can be applied to model and explain real-world scenarios. Additionally they will be shown that mathematics is a current, active, useful, and dynamic field of study.

Prerequisites: MAT 171, MAT 172, and MAT 224; or graduate status and permission of the instructor.

MAT 460: Linear Algebra II

This course is a study of advanced topics in Linear Algebra. Topics include: review of the properties of vector spaces; study of inner product spaces; factorization of a matrix in QR, diagonalized, and singular value decomposition forms; eigenvalues and eigenvectors of matrices with applications to solving differential equations; positive definite matrices and their applications; and numerical linear algebra.

Prerequisites: MAT 260, MAT 283, MAT340, & CSC 135 or higher; 2 courses must be completed with a grade of "C" or better; or graduate student status.

MAT 470: Selected Topics In Mathematics

This course is designed to provide mathematics students an in-depth study of a topic in mathematics that is not normally covered in the curriculum. May be repeated with different topics.

Prerequisites: MAT 224, graduate status, or permission of the instructor. There may be additional prerequisites depending upon the topic.

MAT 473: Partial Differential Equations

Equations of first order, Hamilton-Jacobi theory; the Cauchy Problem; the Dirichlet and Newman problems, Existence Theorems; Green's Functions; Equations of mathematical physics; integral equations.

MAT 490: Advanced Directed Reading and Research in Mathematics

This course involves individual independent study in mathematics under the direction of a mathematics faculty member. This study can be carried out in any area of mathematics or its application that is not a topic covered in depth in any regular mathematics course offering at the University. The student works with a faculty tutor who advises the student in choice of material. This course may be repeated for a total of up to six semester hours and for a total of up to 6 credits cumulative combined with credits from MAT 190, 290, and 390.

Prerequisites: MAT 224 and any two of the following: MAT 260, 301, 305, 311, 330, 332, 340, 351, 361, 370; and permission of the instructor and permission of the department.

Mathematics Education

MAU 415: Learning and Teaching Mathematics

The nature of mathematics and mathematical thought processes; current views on the learning and teaching of mathematics; problem-solving; discovery learning; meaningful instructional objectives; individualizing instruction in mathematics; aids to instruction; instructional strategies in mathematics education. Open to Senior Secondary Education Mathematics majors, Senior Elementary Education majors with a Mathematics Concentration and to graduate students in mathematics education.

MAU 425: Middle School Mathematics

This course is designed to prepare both elementary and secondary teachers to teach mathematics in the middle school. Various instructional strategies will be examined and discussed. A significant portion of the course will be devoted to the content and methods of middle school mathematics. The course will include the presentation of some activities that middle school students can use to discover mathematical concepts. Open to Senior Secondary Education Mathematics majors; Senior Elementary Education majors with a Mathematics Concentration and to graduate students in mathematics education.

Modern Language Studies

MLS 11: Self-Instructional Language Course

Self-instructional Language courses are intended for intensified study, and are not offered as "crash" courses for a quick and superficial capability in the language. Progress and proficiency will be periodically and systematically monitored and tested by a qualified person proficient in the language. A particular course will be open to a student with permission of the chairman and only if a qualified informant is available. The University requires a statement signed by the student which releases the University of responsibility should a monitor/tutor be "lost" during study or, if faculty be unwilling or unable to continue the "Special Arrangement." Self-instructional courses are offered in Arabic, Chinese, Greek, Hebrew, Japanese, Polish, Portuguese.

MLS 12: Self-Instructional Language Course

Self-instructional Language courses are intended for intensified study, and are not offered as "crash" courses for a quick and superficial capability in the language. Progress and proficiency will be periodically and systematically monitored and tested by a qualified person proficient in the language. A particular course will be open to a student with permission of the chairman and only if a qualified informant is available. The University requires a statement signed by the student which releases the University of responsibility should a monitor/tutor be "lost" during study or, if faculty be unwilling or unable to continue the "Special Arrangement." Self-instructional courses are offered in Arabic, Chinese, Greek, Hebrew, Japanese, Polish, Portuguese.

MLS 103: Self-Instructional Language Course

Self-instructional Language courses are intended for intensified study, and are not offered as "crash" courses for a quick and superficial capability in the language. Progress and proficiency will be periodically and systematically monitored and tested by a qualified person proficient in the language. A particular course will be open to a student with permission of the chairman and only if a qualified informant is available. The University requires a statement signed by the student which releases the University of responsibility should a monitor/tutor be "lost" during study or, if faculty be unwilling or unable to continue the "Special Arrangement." Self-instructional courses are offered in Arabic, Chinese, Greek, Hebrew, Japanese, Polish, Portuguese.

MLS 104: Self-Instructional Language Course

Self-instructional Language courses are intended for intensified study, and are not offered as "crash" courses for a quick and superficial capability in the language. Progress and proficiency will be periodically and systematically monitored and tested by a qualified person proficient in the language. A particular course will be open to a student with permission of the chairman and only if a qualified informant is available. The University requires a statement signed by the student which releases the University of responsibility should a monitor/tutor be "lost" during study or, if faculty be unwilling or unable to continue the "Special Arrangement." Self-instructional courses are offered in Arabic, Chinese, Greek, Hebrew, Japanese, Polish, Portuguese.

MLS 363: The Entrepreneurial Language Professional

This course develops the praxis of entrepreneurship for translators, interpreters or other language professionals who wish to start their own freelance business or translation agency/company. Topics include: managing the start-up phase; designing a plan to market the services through traditional methods as well as social media; cost and product analysis to choose the appropriate equipment for the business; and financial planning such as setting rates, writing contracts, planning for taxes and handling payments. Taught in English.

MLS 380: Senior Seminar in Modern Languages

This course consists of reading and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Modern Languages. Required of all Liberal Arts students concentrating in Modern Languages and B.S. Secondary Education Teachers.

MLS 390: International Internship

This course is designed for the student wishing to spend an extended period of time abroad or at an approved domestic agency/organization in either an internship situation or non-traditional studies. Students must demonstrate that the internship or non-traditional program will be conducted in the modern language of study and will be adequately supervised. Other requirements may need to be met. Open to Majors and Minors with permission of the department chairperson.

MLS 428: Culture and Diversity of English Learners

This course is designed to prepare English as a Second Language (ESL) program specialists to facilitate the integration of English Language Learners (ELLs) and their families into the host school and community. As well, the course facilitates school staff members' understanding of multi-cultural and multi-language learners' needs and support strategies so as to maximize the educational experience. Participants in this course will undertake a comparative approach to similarities and differences between the US culture and other cultures with the goal of developing cultural understanding and sensitivity of ELL/ESL students and families living in the US culture.

Prerequisites: Students that have taken EDU 528 Student Diversity & Critical Pedagogy, cannot take EDU 428.

MLS 434: Instructional Methodology for English Learners

This course is for English as a Second Language (ESL) practitioners in partial requirement for the Pennsylvania Program Specialist ESL Certificate. This course offers research-based information relative to the design and implementation of an ESL program; methods, strategies, and resources for ESL programs; the use of computer technology (hardware and software) for ELLs; the use of audio/visual media for ELLs; the adaptation of instructional strategies and materials to address the specific needs, talents and interests of ELLs; the integration of multicultural information for ELLs through various curricula; the development, implementation, and evaluation of varied curricular and instructional activities for diverse ELLs; metacognitive awareness and strategic planning of ELLs to assist them in regular classrooms; and the acculturation process regarding reading, writing, speaking, listening, and culture.

Prerequisites: College of Education majors only

MLS 435: Language Acquisition and English Linguistics

This course is for English as a Second Language (ESL) practitioners in partial requirement for the Pennsylvania Program Specialist-ESL Certificate. This course offers an overview of the basic mechanisms of human language, as well as first and second language acquisition and literacy development. Students will examine the linguistic elements of American English and discover effective methods of instruction and assessment of spoken and written language for use with ESL learners. This course is for English as a Second Language (ESL) practitioners in partial requirement for the Pennsylvania Program Specialist-ESL Certificate. This course offers an overview of the basic mechanisms of human language, as well as first and second language acquisition and literacy development. Students will examine the linguistic elements of American English and discover effective methods of instruction and assessment of spoken and written language for use with ESL learners.

Prerequisites: College of Education majors only

Multicultural Studies

MCS 10: Introduction to Multicultural Studies

This course is an introduction to the perspectives, histories and contemporary issues of diverse cultures in the United States as presented from the voices of those within the cultures. An interdisciplinary approach is used to examine various groups' struggles, traditions, and aesthetics. The course gives a foundation for further study in history, literature, sociology, music, art, business, and education.

MCS 370: Selected Research Topics in Multicultural Studies

This course is designed to allow students to do independent research under the direction of a faculty member. The topic must be accepted by the faculty member with whom the student will work. (Offered for 3 s.h. or 6 s.h.)

MCS 380: Seminar in Multicultural Studies

This is an important culminating activity which provides for the integration of the students' studies from their major program with the minor area concentration (multicultural studies). Students will complete a research project in their areas of interest and experience as evidenced by the courses selected to fulfill the basic requirements for the minor in Multicultural Studies. Students will have the opportunity to discuss their research in class as well as to explore timely issues in multicultural studies. Students will be encouraged to present their research at conferences and colloquia.

MCS 390: Internship in Multicultural Studies

Students with a minor in Multicultural Studies are provided with an opportunity to apply skills and knowledge gained in the minor on a supervised work experience in an agency that addresses issues in this field.

Music

MUS 10CT: Introduction to Music

A survey of western music designed to increase the student's understanding and enjoyment of music. Through lecture, discussion and directed listening the student will be introduced to representative works of the major stylistic periods in music history with reference to the political, social and artistic milieu in which they were created. Opportunity will be provided for listening to recordings, films, and live performances.

MUS 20: Basic Concepts and Skills of Music

Designed for students with little or no prior musical experience, this course provides basic knowledge concerning the structure of music, i.e., melody, rhythm, form, harmony, and texture. Along with an orientation to the keyboard, students are introduced to reading, writing, and creating music; sight singing, rhythms, ear training, and dictation.

MUS 24: Class Piano I

A course in practical keyboard facility, sight reading, and harmonization of folk melodies and songs. For all students interested in obtaining a better understanding of music by means of keyboard work. Useful for elementary majors who do not present a minimum degree of proficiency in piano.

MUS 79: Voice Class I

This course provides students with the opportunity to develop basic singing techniques and apply them to the singing of songs. Class performance stresses the development of confidence and expressiveness.

MUS 100: Experiencing Contemporary Music

This course is a perusal of contemporary practices in musical composition and performance as well as the socio-economic forces which determine these practices. Various musical media, styles and historic periods of music will be included to the extent that they impact upon investigations and discussions of current musical events and performances. The course will include visits to the classroom by various artists as well as visits by the class to local and urban cultural centers.

MUS 101: Aural Skills I

This course provides the student with the opportunity to learn and develop the aural, visual and theoretical aspects of music reading. Students will study the movable "DO" system of solfeggio and sing using these syllables, scale degree numbers, and note letter names, using both treble and bass clefs. Students will learn to take melodic, harmonic, and rhythmic dictation in diatonic relationships with few incidental chromatics. The level of harmony parallels the material in MUS 102, Harmony and Theory I. It is recommended that these courses be taken concurrently.

Prerequisites: MUS 020 or permission of instructor.

MUS 102: Harmony and Theory I

This course is designed as a foundation course in diatonic harmony and music theory. The study of primary and secondary triads and seventh chords, their inversions, and non-harmonic tones will be emphasized along with related skills in melodic analysis and composition. This course should be taken concurrently with MUS 101.

Prerequisites: MUS 020 or permission of instructor.

MUS 106CD: History of Rock and Roll

This course is a study of the origins and development of Rock and Roll music. It examines the role of popular music especially in the 1950s and beyond in a broad overview of historical, artistic, and cultural traditions. Through lecture, discussion, and directed listening, students will become familiar with the social circumstances, technologies, musical groups, songwriters, and producers that have affected and shaped Rock and Roll music.

MUS 108CD: Introduction To World Music

This course is a survey of music focusing on non-Western cultures. Selected musical traditions from throughout the world will be explored, with emphasis on how music functions as part of the daily life in particular societies. Through lecture, discussion, and direct listening, students will become more familiar with other cultures, values, and traditions and gain a better aesthetic appreciation of music from diverse societies.

MUS 113VL: Introduction to Film Music

This class examines the history and development of film music through readings, lecture and film viewing. The class studies the process of film scoring and how music and its relationship to film have changed over the last century. Class will include discussion and evaluation of different compositional styles and learning to listen critically to film scores while viewing movies.

MUS 118: Rhythm and Movement, Applications of Dalcroze Eurhythmics

This course enables students to establish an internal pulse through movement and listening exercises based on the concept of Eurhythmics which, along with Solfege and Improvisation, makes up the approach to music education developed by Emile Jaques-Dalcroze. The Dalcroze approach to music education is based on the idea that rhythm is the primary element in music, and that the source for all music rhythm may be found in the natural rhythms of the human body.

MUS 121: Fundamentals of Music Business

This class is a general overview of the major areas of music business and the music industry. Attention is given to the theoretical foundations and practical application of current business practices in the music industry including supporting organizations and the revenue flow from music consumer to creator.

MUS 122: Classical Guitar I

For all students, this is a course in the fundamentals of the classical style of guitar performance. For beginners only, each student must provide his/her own instrument.

MUS 123: Exploring Music through Modern-Day Thinkers

This exploratory course takes the student into the world of music by examining music-based lectures, papers, and videos presented by innovative thinkers from 1984 to present day. Through discussion and analysis of groundbreaking presentations, students will delve into the culture of the musician and artist.

MUS 124: Class Piano II

A study of the piano, its technique and literature; a continuation of Class Piano I. This course is intended for those who are capable of playing medium grade piano music. Admission by permission of instructor.

MUS 129: Recording Technology Survey

This course is provided as an introductory study of developments in music recording technology. The course will focus on historical innovations in the recording process, a chronology of historical recordings, and the resulting effect of technology on the sonic quality of recorded music.

MUS 179: Voice Class II

This course is a continuation of vocal technique developed in Voice Class I. It includes interpretation, stage deportment, programming and song literature.

Prerequisites: MUS 079 or permission of the instructor.

MUS 191: Italian Lyric Diction for Singers

This course is a study in the correct manner of singing Italian lyric diction. Students are introduced to the International Phonetic Alphabet as a means for studying the language. The course is designed to be taken by voice students who are concurrently enrolled in applied voice. (1 s.h., 2 c.h.)

Prerequisites: MUP 239

MUS 192: German Lyric Diction for Singers

This course is a study in the correct manner of singing German lyric diction. Students are introduced to the International Phonetic Alphabet as a means for studying the language. The course is designed to be taken by voice students who are concurrently enrolled in applied voice. (1 s.h., 2 c.h.)

Prerequisites: MUP 239

MUS 193: French Lyric Diction for Singers

This course is a study in the correct manner of singing French lyric diction. Students are introduced to the International Phonetic Alphabet as a means for studying the language. The course is designed to be taken by voice students who are concurrently enrolled in applied voice. (1 s.h., 2 c.h.)

Prerequisites: MUP 239

MUS 195WI: Music in Human Experience

This course considers how music has functioned in human societies around the world and also historically across time. Students will examine music in the context of religion, court traditions, dancing, entertainment, and theatrical presentations in Western European history and also in traditional and popular cultures around the world. Through lecture, discussion, and directed listening, students will gain a better aesthetic appreciation of music in a range of human experience.

MUS 201: Aural Skills II

This course is a continuation of MUS 101 Aural Skills I, in which the aural, visual and theoretical aspects of music reading are developed and expanded. Students will continue working with the movable "DO" system of solfeggio, and will sing using these syllables, scale degree numbers, and note letter names. Both treble and bass clefs will be used for the exercises, and both diatonic and chromatic relationships will be studied. Part singing, including canons, duets, trios, and standard SATB four-part writing will be studied. The level of harmony parallels the material in MUS 202 Harmony and Theory II; it is recommended that these courses be taken concurrently.

Prerequisites: MUS 101 and MUS 102 or permission of the instructor.

MUS 202: Harmony and Theory II

This course is designed to follow the foundation course in harmony and music theory, extending to chromatic harmony and modulation. The study of secondary dominants and seventh chords and their inversions will begin the study of modulation, along with harmonic sequences, pivot chords, direct change of key, borrowed chords, and other elements of chromatic harmony. This course should be taken with MUS 201.

Prerequisites: MUS 101 and MUS 102 or permission of the instructor.

MUS 205: The Physical Properties of Sound: Music and Music Reproduction

This course is a non-mathematical music-based study of sound; its properties, production, storage and reproduction. This course will study the acoustical properties of the voice and music instruments and the electronic devices used to record and reproduce their sounds.

The course is designed to provide experiences in the practical uses of musical acoustics.

MUS 207: British Music

A study of the music of England, Ireland, Scotland and Wales, including an analysis of its structure, styles, and aesthetic concepts. Major composers of all historical periods will be considered and their contributions in the various genres will be presented within the context of the social and historical background of the British Isles.

MUS 209CDWI: Women in Music

This course will examine the contributions of women as composers, performers and conductors of music from the Middle Ages through the twentieth century. Focus will remain mainly on the roles of women in the sphere of classical music, although some jazz and popular music will be included. Class is limited to 25 students. (This course is also offered under the WST 209 designation.)

MUS 213: Aural Skills III

This course is a continuation of MUS 201 Aural Skills II, in which the aural, visual and theoretical aspects of music reading are further developed and expanded. Students will continue working with the movable "DO" system of solfeggio, and will sing using these syllables, scale degree numbers, and note letter names. Both diatonic and chromatic relationships will be studied, with emphasis on material involving modulation and an expanded harmonic vocabulary. Part singing, including canons, duets, trios, and standard SATB four-part writing, will be studied. The level of harmony parallels the material in MUS 214 Harmony and Theory III; it is recommended that these courses be taken concurrently.

Prerequisites: MUS 201 and MUS 202 or permission of instructor.

MUS 214: Harmony and Theory III

This course is designed as a continuation of Harmony and Theory II. It emphasizes the study of advanced chromatic harmony, with borrowed chords, augmented sixth chords, ninth/eleventh/thirteenth chords, and other late nineteenth century harmonic devices.

Prerequisites: MUS 202, MUS 201. To be taken concurrently with MUS 213.

MUS 215CDWI: American Popular Music

This course is a study of the origins of popular music in the United States. It examines the role of popular music beginning in the nineteenth century into the twenty-first century in a broad overview of the music industry, published sheet music and recorded sound. Through lecture, discussion, and directed listening, students will become familiar with popular song, musical theater, blues, jazz, folk, country, rock, film music, rap, and current pop artists.

MUS 217: Music and the Spoken Word

This course is designed to develop and intensify the student's intellectual, emotional and aesthetic responses to the aural qualities of spoken word poetry and music through an examination of the similarities and differences between them. It combines rhythm, rhyme, music, drumming, and the power of words. Emphasis will be placed upon those works that particularly convey their meaning through aural and temporal devices.

Prerequisites: COM 10 and any MUS course or permission of the instructor.

MUS 220: Modern Music Since 1900

This course is an examination of the trends and stylistic concepts developed in Europe and America beginning with Post-Wagnerian Romanticism. Along the trends and styles to be considered are impressionism, neo-classicism twentieth-century nationalism, the twelve-tone school, jazz, electronic, chance, multi-media, consolidation, neo-romanticism, minimalism, and computer music.

Prerequisites: MUS 010 or permission of instructor.

MUS 224: Class Piano III

This course will serve as a continuation of Class Piano I and II and also as a placement for students with more fluent reading and playing skills than required for Class Piano II. A placement examination is required of students without prior study in Class Piano II.

Prerequisites: MUS 124 or permission of the instructor.

MUS 225CD: Jazz: Its History and Influence

A study that explores the logical musical derivatives and developments in jazz and how these developments affected and continue to affect individual jazz styles.

MUS 226: Jazz Improvisation

This course is an introduction to jazz improvisation and is designed to increase the student's understanding of the principles of improvisation in the jazz idiom. Through lecture and demonstration the student will receive instruction in the basics of jazz improvisation as founded in the be bop era of jazz history.

Prerequisites: MUS 102

MUS 228: The History of American Musical Theatre

This course is an advanced history and survey of the musical, the American contribution to the world of theatre. In addition to examining contemporary musicals, American precursors and European influences, innovators and innovations in music, libretto, staging and choreography will be studied as a means of illustrating changes and trends in music theatre. (This course is also offered under the THE 228 designation.)

Prerequisites: THE 15 and MUS 10

MUS 230CP: Intro To Music Technology

This course will present the student with an investigation into the equipment and materials available in current trends in music technology. Information presented in the course will relate to the practicing musician as well as music teachers. The course will cover the technique and creative process of incorporating music technology into the school curriculum to meet current standards, and the methods of adapting music technology to various classroom and ensemble settings.

Prerequisites: MUS 102

MUS 279: Private Instruction in Music Composition

This course is one-half hour per week private instruction in the techniques of music composition. The course will be offered consistent with student demand, availability of faculty and facilities.

MUS 291: Selected Topics in Music

Topics in the field of Music will be selected for study. For example, topics may include music literature courses such as genres, stylistic periods, ethnic music, performers and composers, or music theory courses such as analysis of selected works, counterpoint, and twentieth century compositional techniques. The course may be repeated for credit provided that the same topic is not repeated. Prerequisites will be determined by the topic selected.

MUS 292CP: Audio Engineering I

This course is an introduction to the field of audio engineering. The primary focus of the course is an investigation of recording session procedures including the technical specifications and operational features of each component in the recording studio. Emphasis is placed on developing logistical and auditory perception skills for recording engineers.

Prerequisites: MUS 129

MUS 302: The Modern Private Music Teacher

This course will explore the various pedagogical approaches for teaching private lessons on specific instruments, the core of teaching repertoire for the solo instrument, injury prevention, and the logistics of running a private music studio.

Prerequisites: MUS 202 or permission of the instructor.

MUS 303: Electronic Music Composition

This course is intended to provide the student who is interested in electronic music (music produced by means of synthesizers and computers) with the theoretical and practical knowledge of the basics of electronic music production, the application of MIDI technology and the basic techniques of electronic music composition using traditional recording and sequencer technology.

Prerequisites: MUS 102

MUS 304: The Professional Classical Musician

This course explores the musical and business skills necessary for a career in performance and music related occupations. Through lecture, discussion, and projects, the students will focus on their development as musicians and as entrepreneurs in preparation for seeking existing jobs and creating new opportunities.

MUS 305: The Professional Jazz Musician

This course explores the musical and business skills necessary for a career in performance and music related occupations. Through lecture, discussion, and projects, the students will focus on their development as musicians and as entrepreneurs in preparation for seeking existing jobs and creating new opportunities.

MUS 307: Techniques and Materials of Musical Composition

This course investigates the rhythmic and harmonic materials used in the creation of a musical composition. Attention will be given to the development of the melodic and rhythmic structure of a musical composition as well as the formal organization of traditional works by selected composers. Additionally, students will gain a basic understanding of the instrumental and vocal resources used in the creation of an original musical composition.

Prerequisites: MUS 214 or permission of the instructor.

MUS 308: Jazz and Commercial Arranging

This course investigates the instruments and materials used by jazz and commercial arrangers and the craft of adapting compositions to various vocal and instrumental media within the jazz and commercial genre.

Prerequisites: MUS 202 or permission of the instructor.

MUS 309: Advanced Jazz Improvisation

This course is designed to increase the student's improvisation skills, building upon Jazz Improvisation I. The students will move to the phase of improvisational expertise that will allow them to create new material rather than mimicking that which past masters have already established. The course will begin the study of improvisation in the post-bop period, focusing on the innovations and creative thought process of Miles Davis, John Coltrane, Wayne Shorter, and others.

Prerequisites: MUS 226

MUS 310: Composition and Arranging

An investigation into the creative process of music composition and the craft of adapting compositions to various vocal and instrumental media.

Prerequisites: MUS 102, MUS 202, and MUS 214; or permission of the instructor.

MUS 311WI: Music from Ancient Times to 1750

This course is a study of the music literature from ancient times to 1750. It integrates the role of music in a broad overview of historical, artistic, and cultural traditions. Emphasis is placed on the analysis of forms, styles, genres, and compositional approaches as found in musical scores, to better understand the music in its historical context.

Prerequisites: MUS 202 or permission of the instructor.

MUS 312CDWI: Music from 1750 to the Present

This course is a study of the music literature from 1750 to the present. It integrates the role of music in a broad overview of historical, artistic, and cultural traditions. Emphasis is placed on the analysis of forms, styles, genres, and compositional approaches as found in musical scores, to better understand the music in its historical context.

Prerequisites: MUS 311 or permission of the Instructor.

MUS 315: Audio Engineering II

As a continuation of MUS 292 (Audio Engineering I), this course is an advanced study of components in the recording studio. Students will explore advanced studio electronics and signal flow, computer-based digital recording and editing, console operations, microphones, spatial signal processing, and the role of the audio engineer.

Prerequisites: MUS 292

MUS 318: Symphonic Literature

This course is an in-depth examination of representative orchestral works from the eighteenth to the twenty-first century that are often too long to be studied in other survey courses. While historical and contextual background is addressed, the focus of the course is study and analysis of the form, movement structure, compositional process, performance practice, and orchestration of the works selected through score study and directed listening.

Prerequisites: MUS 214 or permission of the instructor.

MUS 324: Class Piano IV

This course will serve as a continuation of Class Piano I, II, and III, and will complete the cycle of four semesters of basic piano study. Students with more fluent reading and playing skills than are required for Class Piano III may progress to Class Piano IV. Other students without previous Class Piano study may take a placement examination to enroll in the course.

Prerequisites: MUS 224 or permission of the instructor.

MUS 325CT: Conducting (Vocal and Instrumental)

The course is a study of conducting techniques for choral, orchestral and band music through lecture, demonstration, reading, discussion, and recitation. The primary focus of this course is on developing effective and efficient rehearsal methods and conducting techniques.

Prerequisites: MUS 101, MUS 102, MUS 201, MUS 202 or permission of the instructor.

MUS 326: Advanced Conducting

The course is a study of advanced techniques of conducting through lecture and demonstration with recordings and live ensembles. The primary focus of this course is to develop more advanced skills in conducting technique, rehearsal planning, and advanced concepts in sound and styles.

Prerequisites: MUS 325

MUS 327: Aesthetics and Music Criticism

This course covers the philosophical basis of expression as a foundation for understanding the nature, function and modes of musical art. The consideration of criteria for music as a component of human life experience is included.

MUS 328: Hearing Musical Form I

This course develops the ability to identify and hear structural form in Western music. In addition to motives, cadences, and musical phrases, the formal structures of 1-Part form, Binary, Ternary, Ostinato, Variations, and Contrapuntal forms from the 17th through 19th centuries will be studied. Emphasis is placed on techniques for hearing form, analysis of musical scores, and the application of both to performance.

Prerequisites: MUS 214 or permission of the instructor.

MUS 329: Hearing Musical Form II

This course develops the ability to identify and hear structural form in Western music. In addition to motives, cadences, and musical phrases, the formal structures of Sonata form, Rondo, and Sonata-Rondo from the 17th through 19th centuries will be studied as well as 20th and 21st Century innovations in form. Emphasis is placed on techniques for hearing form, analysis of musical scores, and the application of both to performance.

Prerequisites: MUS 214 or permission of the instructor.

MUS 330: Analysis of Music: Stylistic and Structural

This course studies the stylistic and structural development of Western Music from the Baroque Period to the present day. Emphasis is placed upon formal and harmonic analysis and the related aesthetic purpose of the development of architectural structuring.

Prerequisites: MUS 214 or permission of the instructor.

MUS 379: Directed Studies in Music

This course is an individualized approach to address the needs and interests of select students through guided research, readings, discussions, and papers.

MUS 380: Senior Seminar in Music

This course includes readings and discussions of music as a component of contemporary society, with particular reference to the complementary roles of the composer, performer, consumer and critic.

Prerequisites: BA MUS major and permission of the instructor.

MUS 391: Field Experience in Music

Intended as a capstone experience this course is designed to provide the student with educational opportunities outside the normal academic program which cannot be gained through the more traditional course structure. Music internships may take place in a variety of music fields including but not limited to music products retail and wholesale, arts management, marketing, promotions, live performing, recording, live sound, venue operations, sound design, and/or audio production. Music internships usually occur following completion of the student's core coursework. Students are encouraged to make contact with potential internship programs well before their internship semester.

Prerequisites: MUS 121 and MUS 292

MUS 392: Field Experience in Music

Upon approval of a cooperating agency, the student will be placed in a situation in which practical professional experience can be acquired through an organization related to his/her career plans. Interested students should apply through their advisor or the chairperson of the department.

MUS 393: Field Experience in Music

Upon approval of a cooperating agency, the student will be placed in a situation in which practical professional experience can be acquired through an organization related to his/her career plans. Interested students should apply through their advisor or the chairperson of the department.

MUS 394: Field Experience in Music

Upon approval of a cooperating agency, the student will be placed in a situation in which practical professional experience can be acquired through an organization related to his/her career plans. Interested students should apply through their advisor or the chairperson of the department.

MUS 395: Honors: Independent Study/Thesis

Honors Independent Study/Thesis.

MUS 420: Selected Topics in Music Lit

Music literature of various stylistic periods, cultures, media, and genre, and/or works of selected composers or performers which cannot, because of their scope, receive emphasis in existing music literature courses are studied.

MUS 450: Performing Arts Administration

Performing Arts Administration will engage students in the business aspects of the performing arts industry, including organizational behavior and arts management, performing arts center and ensemble management, community arts organizations, financial management for the arts, audience development and marketing the arts, legal issues in the arts, repertoire appraisal in the arts, working in the non-profit sector, grant-writing, and fundraising. Students will also complete field work with local arts agencies as part of the course.

MUS 460: Foundations of Christian Musical Worship

This course is a study of the history, theology, and practice of music and the arts in worship. Designed for church musicians and students who are interested in music in the church, this course will provide biblical and historical perspective and necessary materials and resources to understand and develop creative worship experiences.

Prerequisites: Permission of Instructor

MUS 470: Selected Topics in Music Literature

Music literature of various stylistic periods, cultures, media, and genre, and/or works of selected composers or performers which cannot, because of their scope, receive emphasis in existing music literature courses are studied.

Music Education**MUU 100WI: Overture To Music Education**

This course serves as an introduction to the foundations of music education. Topics include history of music education in the United States, philosophical underpinnings of what we do as musician educators and why we do it, on becoming a musician teacher, fundamental psychology of learning and teaching, developing tools for teaching, early childhood music, elementary and secondary classroom music, instrumental music, choral music, multicultural music education, diverse learners, and developing instruction. Special emphasis is placed on helping the music education student in developing one's own philosophy of music and music education, and how being a music teacher requires one to be both a fine musician and a fine teacher.

MUU 220: Elementary Music Methods

This course will prepare the prospective music educator to be able to create, develop, and teach successful elementary classroom music programs. Students will study major trends and learning theories, apply knowledge of child development including exceptional populations, examine the literature and materials for teaching music, create lesson and unit plans, and engage in practice teaching experiences.

MUU 222VL: Secondary Music Methods

This course will prepare the prospective music educator to be able to create, develop, and teach successful classroom music programs for individuals from grade 6-12. Appropriate music course offerings will be outlined for both middle and high school settings based on the social, psychological, intellectual, and physical changes experienced by students of this age group. Practical, hands-on teaching experience will be achieved by having students prepare and present lessons. Performance opportunities and concerns will be discussed. Students will also examine a variety of resources, including the music of various cultures, as well as the resources available in their own community.

Prerequisites: Music Education majors and MUU220

MUU 231: String Techniques

This course will prepare the prospective music educators to be able to teach string instruments to beginning school students, and to successfully apply knowledge of string instruments in the school instrumental music program in classroom and ensemble settings.

Prerequisites: Music Education majors only

MUU 232: Woodwind Techniques

This course will prepare the prospective music educators to be able to teach woodwind instruments to beginning school students, and to successfully apply knowledge of woodwind instruments in the school instrumental music program in classroom and ensemble settings.

Prerequisites: Music Education majors only

MUU 233: Brass Techniques

This course will prepare prospective music educators to be able to teach brass instruments to beginning school students, and to successfully apply knowledge of brass instruments in the school instrumental music program in classroom and ensemble settings.

Prerequisites: Music Education majors only

MUU 234: Percussion Techniques

This course will prepare prospective music educators to be able to teach percussion instruments to beginning school students, and to successfully apply knowledge of percussion instruments in the school instrumental music program in classroom and ensemble settings.

Prerequisites: Music Education majors only

MUU 236: The Arts and Pre-K 4 Education

This course provides Pre-K through Gr4 Teacher Candidates with concepts and skills central to the visual and performing arts (Visual Art, Music, Theater, and Dance). Candidate will learn how to construct developmentally appropriate learning experiences in the arts for Pre-K through 4 students and how to integrate these experiences with other subjects. (3 s.h., 4 c.h.)

MUU 299: Music Education Lab

This is a workshop course for music teacher candidates which provides learning experiences in individual topics including guitar, musical theatre, and jazz improvisation which meet standards required for certification.

MUU 320: Instrumental Music Methods

This course is designed to prepare students to teach instrumental music in the schools. Each student will be able to discuss and/or demonstrate appropriate teaching techniques, strategies and materials (including representative orchestral and wind repertoire), and develop an understanding of the administrative responsibilities needed to initiate and maintain a successful instrumental music program.

Prerequisites: Music Education majors with MUS325, MUU 220, MUU 222, MUU 231, MUU 232, MUU 233, and MUU 234; or permission of the instructor.

MUU 322: Choral Music Methods

This course is designed to prepare students to teach choral music in the schools. Each student will be able to discuss and/or demonstrate appropriate teaching techniques, strategies, and materials (including representative choral repertoire), and develop an understanding of the administrative responsibilities needed to initiate and maintain a successful choral music program.

Prerequisites: Music Education majors with MUS325, MUU 220, MUU 222, MUU 231, MUU 232, MUU 233, and MUU 234; or permission of the instructor.

MUU 390: Clinical Experience and Practicum: Music I

Student teaching is the culminating experience of the undergraduate Music Education program. It provides the student with the opportunity to observe professional music teachers and to participate in the music education program of the school. The student teaching semester is divided into two segments, one at the elementary level (K-6) and the other at the secondary level. These are interchangeable. At some point during these placements the student teacher will have experience with general, vocal/choral, and instrumental music instruction. The student teacher is expected to participate in planning and teaching lessons in all of these areas. The Practicum is a seminar scheduled concurrently with Student Teaching. Led by university faculty, students will discuss a variety of subjects, including but not limited to: teaching strategies, learning theory, classroom and rehearsal management techniques, community resources, and other pre-professional concerns.

MUU 391: Clinical Experience and Practicum: Music II

Student teaching is the culminating experience of the undergraduate Music Education program. It provides the student with the opportunity to observe professional music teachers and to participate in the music education program of the school. The student teaching semester is divided into two segments, one at the elementary level (K-6) and the other at the secondary level. These are interchangeable. At some point during these placements the student teacher will have experience with general, vocal/choral, and instrumental music instruction. The student teacher is expected to participate in planning and teaching lessons in all of these areas. The Practicum is a seminar scheduled concurrently with Student Teaching. Led by university faculty, students will discuss a variety of subjects, including but not limited to: teaching strategies, learning theory, classroom and rehearsal management techniques, community resources, and other pre-professional concerns.

MUU 421: Marching Band Techniques

This course covers the administration and management of the high school marching band as part of a total instrumental music program in the public schools. Students are exposed to the various techniques used in producing a superior performing ensemble that also adhere to the basic musical objectives of a quality band program. The course emphasizes rehearsal technique and the application of pedagogical skills to the marching ensemble. Show design, charting, marching and maneuvering, rehearsal planning, equipment selection, percussion techniques, personnel management, auxiliary units, discipline, and performance preparation are major topics for discussion. This course introduces students to the fundamentals of music arranging and drill writing for the contemporary marching band. Teaching methodologies of basic marching maneuvers and drill rehearsing will be covered. The course will also cover music selection and show design.

Prerequisites: MUS 214 or permission of the instructor.

Music Performance

MUP 229: Applied Jazz Instruction

Instruction one half hour per week in voice, keyboard, guitar, drum set, saxophone, electric and/or acoustic bass, trumpet, trombone, vibes. This instruction will be offered consistent with student demand, availability of faculty and facilities.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 230: Chamber Ensemble

This course will provide students with opportunities to engage in live music-making experiences in a variety of small ensemble settings. Faculty members will instruct and coach students in appropriate aspects of musicianship and the development of performance skills as is appropriate for the type of ensemble.

MUP 231: String Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble. May be repeated for credit.

MUP 232: Woodwind Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble. May be repeated for credit.

MUP 233: Brass Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble. May be repeated for credit.

MUP 234: Percussion Ensemble

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 235: Vocal Ensemble

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 236: Applied Music: French Horn (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 237: Applied Music: Piano (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 238: Applied Music: Organ (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 239: Applied Music: Voice (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 240: Applied Music: Viola (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 241: Applied Music: Cello (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 242: Applied Music: String Bass (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 243: Applied Music: Flute (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 244: Applied Music: Oboe (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 245: Applied Music: Clarinet (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 246: Applied Music: Bassoon (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 247: Applied Music: Saxophone (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 248: Applied Music: Trumpet (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 249: Applied Music: Violin (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 250: Applied Music: Baritone Horn/Trombone (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 251: Recorder Ensemble

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 252: Applied Music: Tuba (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 253: Applied Music: Percussion (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 254: Applied Music: Guitar (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 275: Jazz Combo

This course will provide students with opportunities to engage in live music-making experiences in a small ensemble setting. Faculty members will instruct and coach students in appropriate aspects of musicianship and the development of performance skills as is appropriate. This course is repeatable for credit, including in the same semester, up to 99 times.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 276: Popular Music Ensemble

This course will provide students with opportunities to engage in live music-making experiences in a small ensemble setting. Faculty members will instruct and coach students in appropriate aspects of musicianship and the development of performance skills as is appropriate for popular styles of music.

This course is repeatable for credit, including in the same semester, up to 99 times.

Prerequisites: Permission of Instructor

MUP 277: Studio Performance Seminar

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 281: University Band

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 282: University Marching Band

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 283: University Choir

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 285: University Orchestra

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 287: New Music Ensemble

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 289: Large Jazz Ensemble

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 296: Musical Theatre Workshop

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music. This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 399: Senior Recital

This course will prepare the student to present a live music performance in the student's principal applied music medium. The performance may be public or private, as determined by a hearing by the faculty of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 430: Chamber Ensemble

This course will provide students with opportunities to engage in live music-making experiences in a variety of small ensemble settings. Faculty members will instruct and coach students in appropriate aspects of musicianship and the development of performance skills as is appropriate for the type of ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 431: String Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 432: Woodwind Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 433: Brass Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 434: Percussion Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 435: Vocal Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 436: Applied Music: French Horn (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 437: Applied Music: Piano (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 438: Applied Music: Organ (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 439: Applied Music: Voice (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 440: Applied Music: Viola (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 441: Applied Music: Cello (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 442: Applied Music: String Bass (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 443: Applied Music: Flute (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 444: Applied Music: Oboe (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 445: Applied Music: Clarinet (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 446: Applied Music: Bassoon (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 447: Applied Music: Saxophone (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 448: Applied Music: Trumpet (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 449: Applied Music: Violin (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 450: Applied Music: Trombone (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 455: String Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 456: Woodwind Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 457: Brass Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 458: Percussion Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 459: Vocal Ensemble

Ensemble instruction may be elected only with the permission of the instructor. Ensemble instruction: One hour per week in string, woodwind, brass, percussion, jazz, and vocal ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 460: Applied Music: French Horn (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 461: Applied Music: Piano (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 462: Applied Music: Organ (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 463: Applied Music: Voice (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 464: Applied Music: Viola (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 465: Applied Music: Cello (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 466: Applied Music: String Bass (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 467: Applied Music: Flute (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 468: Applied Music: Oboe (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 469: Applied Music: Clarinet (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 470: Applied Music: Bassoon (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 471: Applied Music: Saxophone (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 472: Applied Music: Trumpet (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 473: Applied Music: Violin (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 474: Applied Music: Trombone (Pr)

Private instruction: One half hour per week in voice, piano, organ and orchestral instruments. There is a special fee for private instruction and a special fee for organ rental. Private instruction requires permission of the instructor and the Chairperson of the Department of Music.

This course is repeatable for credit, including in the same semester, up to 99 times.

MUP 480: Chamber Ensemble

This course will provide students with opportunities to engage in live music-making experiences in a variety of small ensemble settings. Faculty members will instruct and coach students in appropriate aspects of musicianship and the development of performance skills as is appropriate for the type of ensemble.

This course is repeatable for credit, including in the same semester, up to 99 times.

Paralegal Studies**PLG 120: Introduction to Paralegal Studies**

The paralegal profession is introduced. The student will be exposed to the court systems of both the Federal government and individual states as well as various legal concepts and terminology. Ethics and limitations of paralegals are explored. Legal research, manually and computer assisted, time and billing software, and docket-control software are also course components.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 125: Workers' Compensation Practice for Paralegals

Provides paralegal students with a knowledge of the workers' compensation laws and the legal concepts embodied in the Pennsylvania Workers' Compensation Act. Other topics include practice and procedure before administrative judges, trial issues, and the relationship of workers' compensation law to other administrative entitlements, such as Social Security Disabilities.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 130: Social Security Disability Practice

Provides paralegal students with a knowledge of the laws involved in Social Security Disability practice, as well as the practice and procedure before administrative judges, trial issues, and relationship to other administrative entitlements, such as worker's compensation.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 135: Interviewing for Paralegals

Provides paralegal students with a knowledge of the interviewing skills that are to be mastered in a legal setting. Interviewing skills are essential skills for the well-educated paralegal. The students will be exposed to the different types of interview situations that may be encountered in a legal setting. The students will demonstrate their knowledge of interviewing by conducting various types of interviews. The students will also be required to understand the ethical responsibilities in interviewing. The course will also provide the students with the communication skills necessary for effective interviewing techniques.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 150: Torts and Personal Injury Law

Tort law is an area of law that covers every aspect of society. Tort law governs the conduct of individuals, corporations, and businesses by providing an outlet for addressing civil wrongs. This course will provide the student with an understanding of the variety of torts and the elements necessary for tort cause of action. The student will gain an understanding of tort law through practical application of tort law concepts.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 200: Civil Litigation and Procedures

Intended to be a follow-up to the Torts and Personal Injury Law course. Enables the student to assist in all aspects of civil litigation including the drafting of pleadings. Entails an extensive study of pre-trial, trial, and post-trial procedures.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 215: Law Office Management

Covers the fundamentals of law office management. Designed to familiarize the paralegal with the practical inner-workings of a law office including understanding law office procedures. Law office management goes beyond mere efficiency and productivity and includes being sensitive to ethical concerns and providing quality legal services to clients in an affordable manner. Covers an array of topics that will be encountered in a law office setting.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 220: Contract Law and Business Organizations

Provides paralegal students with an understanding of basic business law concepts. The students will demonstrate their knowledge of contracts by drafting various contract clauses and an entire contract. The students will also be required to understand judicial interpretation of the contract principles by completing assignments. Educates paralegal students with regard to business organization and prepares the student to work in the area of corporate law as a paralegal. Gives the students an overview of the laws and the theory as well as practical information concerning sole proprietorship, partnerships, and corporations. Students will be required to analyze cases to illustrate the application of laws being discussed. The students will also be required to draft various documents regarding business operations. Warranties, sales, and agency agreements are also reviewed.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 228: Immigration Law for Paralegals

This course will provide an introductory overview of US immigration law with a focus in the paralegal's role in case assembly, compilation, intake, and processing. Students will learn to identify common issues and available benefits associated with processing nonimmigrant and immigrant visa cases to discuss with the Attorney. Students will also gain an overall understanding of both the nonimmigrant and immigrant visa process and US citizenship including the forms, documents, and filing procedures associated with each.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 230: Estates and Trusts

Enables the student to understand the legal principles involved in estate work and to demonstrate the skills necessary to assist in the preparation and completion of all documents incident to estate practice. Includes a coverage of living wills and various types of trusts as well as probate administration.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 235: Family Law

Provides the student with a thorough, working knowledge of the basics of family law. Covers the essentials of family law and the tasks that a paralegal might perform in an active practice, such as client interviewing and coordinating discovery. Entails a study of the various aspects involved in family law including marriage, antenuptial agreements, divorce, spousal and child support, property distribution, divorce proceedings, and adoption. The course materials are supplemented by Pennsylvania specific materials.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 240: Bankruptcy Law

Presents a practical approach to the understanding of bankruptcy law. Familiarizes the student with the bankruptcy code as well as the bankruptcy process. Approaches the bankruptcy process with a practical perspective and "hands-on" approach featuring research and drafting projects.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 245: Legal Research and Writing

Involves the understanding of the various sources involved in law. Includes primary and secondary resources. The student will be able to distinguish binding or persuasive law. The student will combine legal research with legal writing by completing problems and preparing of a memorandum of law. Legal writing entails case briefing, drafting a memorandum of law, and review of components of legal correspondence. Utilizes the library at Lehigh County Court of Common Pleas.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 250: Legal Internship

Provides the student with "hands-on" experience while working at a law firm, courthouse, bank, or other acceptable locale. The student will work a total of 225 hours at the business during the semester, as well as attendance in meetings to discuss job-searching skills. Intended to be taken after a majority of the course work is completed. Must be pre-approved by the program coordinator according to deadlines established in internship manual.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

PLG 255: Legal Writing

Legal writing skills are reinforced through various assignments. The student will draft case briefs, complaints, answers, discovery demands, motions, and various types of legal correspondence. Legal research will be utilized to respond to a fact simulation that results in a memorandum of law. Grammar competency is expected.

Prerequisites: Please contact Diane Tallarita at (610) 799-1594 or email dtallarita@lccc.edu before you register for this class.

Pennsylvania German Studies

PAG 10CD: Introduction to Pennsylvania German Studies

This course is an introduction to Pennsylvania German culture, its development, and the various ways it is interpreted and represented. Students will learn about the European origins of the Pennsylvania Germans, their reasons for migrating, and how Pennsylvania German culture was developed and transformed in the United States over the last 300 years. Students will also learn how that culture has been defined and redefined, represented and displayed, both by Pennsylvania Germans and others.

PAG 11: Introduction to Pennsylvania German Language I

This is the first of two, sequential three-credit language courses for beginning students of the Pennsylvania German language. These courses are designed to develop basic skills in comprehension, pronunciation, speaking, reading and writing. Course content stresses the practical use of the language and learning about Pennsylvania German cultural practices through learning the language. Students are encouraged to practice and use their skills with members of the surrounding community.

PAG 12: Introduction to Pennsylvania German Language II

This is the second of two, sequential three-credit language courses for beginning students of the Pennsylvania German language. These courses are designed to develop basic skills in comprehension, pronunciation, speaking, reading and writing. Course content stresses the practical use of the language and learning about Pennsylvania German cultural practices through learning the language. Students are encouraged to practice and use their skills with members of the surrounding community.

PAG 251: Pennsylvania German Literature in English and Translation

This is a survey course of Pennsylvania German literature broadly defined. Knowledge of Pennsylvania German is not required. This survey will examine the beginning of the Pennsylvania German literary tradition in the middle of the 19th century and its development throughout the 20th century and into the 21st century. The literature includes material in Pennsylvania German that is translated into English and English literature with Pennsylvania German themes and subjects.

PAG 276: The Pennsylvania German Landscape

This course examines the development and evolution of the rural Pennsylvania German landscape from 1682 through the present. Students completing this course shall engage in readings discussions, visit museums, conduct fieldwork, and engage in a hands on restoration project. Students will gain a broad understanding of the social history and visual culture of the Pennsylvania Germans as they study their architecture, rural way of life, decorative arts, and material culture.

PAG 301: Pennsylvania German Literature

This is a survey course of Pennsylvania German literature broadly defined. This survey will examine the development of a literary tradition in the beginning of the 19th century and its development throughout the 20th and into the 21st century. The literature includes material in Pennsylvania German and English literature with Pennsylvania German themes.

Prerequisites: PAG 10 and Permission of the Department Chair

PAG 360: Pennsylvania German Studies Abroad

Students are encouraged to pursue their studies in Pennsylvania German language and culture at universities and institutions in Germany, and elsewhere. The student must submit a plan of study before being approved and must present a paper or project at the completion of the project.

PAG 370: Readings in Pennsylvania German Life

Students preparing for advanced study in German Studies may undertake guided reading and/or research. Arrangements as to the program and supervising faculty must be completed prior to registration.

Prerequisites: PAG 10 and Permission of the Department Chair

PAG 379: Independent Study

Before registering the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated for credit for up to 6 credits.

PAG 390: Internship in Pennsylvania German Studies

This is a capstone course for students interested in Pennsylvania German Studies. Students review issues in Pennsylvania German Studies and then apply them to a practical and/or professional project. The course is developed for advanced students in Pennsylvania German Studies, but it may be taken by any student who has permission of instructor.

Philosophy**PHI 15CT: Critical Thinking**

Critical thinking is the ability to determine systematically the degree to which a claim or assertion is warranted by purported evidence. This course presents explicitly the principles and standards involved in reasoning and logical persuasion as they apply to our lives, both privately and publicly.

PHI 20CT: Introduction to Logic

An introduction to both traditional and modern symbolic logic with emphasis on problem solving through the applications of rules of validity and truth table tests for validity.

PHI 30CT: Introduction to Philosophy

A course designed to introduce the student to philosophic thought and terminology. Topical survey of the main branches of philosophy; epistemology; metaphysics, value theory.

PHI 40CDCT: Introduction to Ethics

A study of the development of major ethical concepts and problems from the theories of the early Greeks to those of 20th Century philosophers.

PHI 60CDCT: Introduction to Religious Studies

This course introduces students to various theories of and approaches to religion in terms of the nature, origin, description, function, and language of religion. We will examine how religion is studied in the history of religion, phenomenology, sociology, psychology, and anthropology.

PHI 80CDCT: Business Ethics

An investigation of the logic and historical development of principal philosophical theories concerning business, and its moral consequences. Possible topics include the philosophical foundations of free-market, state and collectivist economies, and their applications to contemporary ethical problems such as truth in advertising, workers' rights and economic justice.

PHI 105CDWI: Medieval Philosophy

This course surveys Western medieval philosophy. It covers such figures as Augustine, Aquinas, and Ockham. Emphasis will be placed upon problems having historical as well as modern importance.

PHI 110WICD: Comparative Study of Religion

The course will involve an attempt to apprehend the essence of religious claims and to subject them to critical analysis. Emphasis will be placed on the nature, scope, adequacy and limitations of methods of investigation and evaluation. Specific traditions will be examined in an attempt to ascertain such things as their fundamental claims, what is presupposed by and what follows from such claims, the requirements for religious commitment, and the sanctions for their claims.

PHI 113WI: Environmental Philosophy

This course is an introduction to philosophical theories and ethical issues concerning humanity's relationship to the natural world. What responsibility do we have to care for the environment? What moral obligations, if any, do we have to other animals, plants, and ecosystems, and what is the basis for such obligations?

PHI 116CTWI: Ancient Philosophy

This course exams the major figures and problems of ancient Greek philosophers.

PHI 121CTWI: Modern Philosophy

This course exams the major problems and figures of philosophy in the modern period in which began the scientific revolution and the rise of the West. The course focuses on the rationalists and the empiricists.

PHI 125CDWI: Philosophical Aspects of Death and Dying

The course is concerned with such issues as the mind-body-soul distinction and how this affects our attitudes toward death. It also considers questions of life after death and the ethical issues which must be considered when dealing with death and the human event of dying

PHI 130CDWI: Asian Philosophy

Investigation of the philosophic tendencies of various branches of Eastern thought with major emphasis on theories of metaphysics, knowledge and ethics. Comparisons between Eastern and Western philosophic methods and conclusions will be made.

PHI 136WI: Kant to Hegel

This course will examine some of the major figures of late modern philosophy. Immanuel Kant, some of Kant's immediate critics (e.g. Fichte, Schelling, Maimon, and Jacobi); and the greatest of the German idealists, G.W.F. Hegel. There will also be a brief consideration of the "Hegelian aftermath" on both the Continent and in the English-speaking world.

PHI 140CTQL: Symbolic Logic

This course investigates the various types of modern symbolic logic, with special reference to deductive method and the concepts involved in formal axiomatic systems. Some time is given to the application of symbolic logic to critical thinking and formal models and to the philosophy of logic.

PHI 150CDWI: History of Scientific Ideas

Scientific ideas from their origins in Greek philosophical speculation to the complex character of modern scientific enterprise and the relations between philosophy and science through modern history.

PHI 160CTWI: Philosophy of Sport

This course takes a philosophical look at the nature of sport, sport and ethics, aesthetics and sport, and the epistemology of sport. Specific questions addressed include: What is the nature of sport? Is violence in sport cathartic or socially harmful? Does sport affect or merely reflect public mores and values? Should certain drugs be banned from sport? Do promoters of sporting events exploit minorities? Are athletes heroes?

PHI 170WICT: Philosophy of Religion

A philosophical examination of the major problems of religion such as the concept of human nature, the nature of religious knowledge and faith, the traditional arguments for God's existence, the problem of evil, and the nature and function of religious language.

PHI 202CTWI: HON: Two Philosophers Worth Knowing Well

This course provides an introduction to philosophy via concentrated study of the works of two major philosophers, whose work has had a great cultural influence and has strong, systematic interrelations. The particular philosophers studied will vary from semester to semester, with professors' and students' interests. Emphasis is upon philosophy as involving a continuous and perennial dialogue between great minds.

PHI 210WICT: Medical Ethics

This course is an introduction to the study of moral, legal, and conceptual problems in biomedical research, health care, and health policy. Topics include experimentation on human subjects, the physician-patient relationship, defining death, foregoing life-sustaining treatment, euthanasia, abortion, new reproductive technologies, human genetics, and the allocation of health care resources.

PHI 225CT: Metalogic

This course investigates philosophical issues in symbolic logic and other formal systems. Topics include: the metatheory of predicate logic and the structure of formal axiomatic systems; extended systems of logic including the modal and the temporal; set theories; abstraction; issues in the philosophy of mathematics.

Prerequisites: PHI 140 Symbolic Logic or permission of the instructor.

PHI 230CTWI: Philosophy of History

An examination of various philosophic theories which deal with the description and correlation of historical events.

PHI 235CDWI: Topics in Moral Theory

A detailed examination of selected moral theories: These may include the Aristotelian, Kantian, utilitarian, intuitionist, feminist and naturalist.

PHI 240CDWI: Philosophy of the Social Sciences

An introduction to the scientific methods and techniques as they are applied to social sciences. Relations between the social sciences, the natural sciences and philosophy. Philosophic analysis of the various social sciences in terms of strengths, weaknesses, methods, models, and goals.

PHI 241CTWI: Philosophy of Mind

Philosophy of Mind is a major area of both historical and contemporary philosophy. This course surveys that area. It examines critically fundamental questions of mind and consciousness, such as the mind-body problem, free will, immortality, and artificial intelligence.

PHI 245CDWI: Human Love and Sexual Morality

This course addresses the perennial philosophical questions of what love is and what it means, and how we should behave sexually. It surveys classical, modern and contemporary philosophical writings on these metaphysical and ethical issues. It has two contemporary themes: the historical development of major philosophical traditions concerning love and sexuality, and the pressing contemporary ethical issues concerning sexual behavior.

PHI 249CDWI: Interpretations of the Quran

This course aims at studying major themes in interpretations of the Quran from classical to contemporary period. Variations and evolution in methods of interpretation will also be studied, particularly with a reference to recent developments in Western philosophical hermeneutics and epistemology.

PHI 260CTWI: Philosophy of Art

An investigation into major problems of art from a definition of art to the relation between aesthetic judgment and knowledge in general.

PHI 265WICD: Social and Political Philosophy

The study of one or more important concepts in social and political philosophy such as rights, revolution, law, freedom, justice, property, sovereignty, political obligation and the nature, range, and validation of judgments in the social and political domain. Emphasis may be on either a systematic treatment of problems or on an historical development of theories.

PHI 270CDWI: Interpretation of Religious Texts: Theories and Methods

In this course we will study the science and art of interpretation. Emphasis will be given to biblical, theological, and philosophical interpretations, but the methodologies discussed will assist students in their interpretation of any written or oral works. As it relates to interpretation, we will also discuss logic, and we will take time exercising our interpretation skills by discussing various biblical and theological texts. The course will also examine both the influence of contemporary philosophical theories of interpretation upon the interpretation of religious texts, as well as some Marxist, feminist, deconstructionist, and pragmatist criticism of such theories of interpretation.

PHI 280CTWI: American Philosophy

An examination of the development of philosophy in America from the Colonial period to the present, with special emphasis on pragmatism.

PHI 310CTWI: Theory of Knowledge

A study of the nature and sources of knowledge, including an investigation of theories of truth and meaning. Considers the construction of theories of knowledge based on sense perception down to modern theories based on the analysis of language. Such topics as faith, certainty, probability and skepticism will also be considered.

PHI 330CTWI: Philosophy of Science

The nature of scientific theory, explanation, method and assumptions. The implications of modern science for society and philosophy, and some of the major philosophical issues in the sciences.

PHI 345WICT: Metaphysics

An analysis of basic metaphysical concepts and problems such as substance, causation, nature of the individual, the categories of being. The importance of method to the philosophic inquiry will be examined.

PHI 350: Selected Topics in Philosophy

Extensive readings, critical discussions, and papers on any one of the major philosophers, philosophical schools, or philosophical problems. Selections will vary, depending on the needs and interests of eligible students. Independent research will be emphasized. The course may be taken for credit more than once by permission of the Department Chairperson.

PHI 351: Selected Topics in Philosophy

Extensive readings, critical discussions, and papers on any one of the major philosophers, philosophical schools, or philosophical problems. Selections will vary, depending on the needs and interests of eligible students. Independent research will be emphasized. The course may be taken for credit more than once by permission of the Department Chairperson.

PHI 352: Selected Topics in Philosophy

Extensive readings, critical discussions, and papers on any one of the major philosophers, philosophical schools, or philosophical problems. Selections will vary, depending on the needs and interests of eligible students. Independent research will be emphasized. The course may be taken for credit more than once by permission of the Department Chairperson.

PHI 353: Selected Topics in Philosophy

Extensive readings, critical discussions, and papers on any one of the major philosophers, philosophical schools, or philosophical problems. Selections will vary, depending on the needs and interests of eligible students. Independent research will be emphasized. The course may be taken for credit more than once by permission of the Department Chairperson.

PHI 354: Selected Topics in Philosophy

Extensive readings, critical discussions, and papers on any one of the major philosophers, philosophical schools, or philosophical problems. Selections will vary, depending on the needs and interests of eligible students. Independent research will be emphasized. The course may be taken for credit more than once by permission of the Department Chairperson.

PHI 355CTWI: Existentialism and Phenomenology

A study of such existential concepts as dread, despair, anxiety, absurdity, nothingness, and authenticity and study of phenomenological concepts such as perception, the nature of human emotions, space and time, intersubjectivity, and value. Emphasis may be placed on either a systematic treatment of problems or on a historical development of theories.

PHI 375CTWI: Philosophy of Language

A study of logical atomism, Viennese positivism and contemporary British and American analytic philosophy. This course is intended to give the student a historical perspective of this twentieth century philosophic trend as well as to bring him abreast of current discussion in various phases of analysis.

PHI 379: Independent Study

Before registering the student is required to consult with the faculty member in the area to be studied who will supervise the independent study. May be repeated for credit.

PHI 380CTWI: Senior Seminar in Philosophy

This course consists of readings and discussions in the area of the individual student's interest in philosophy. Required of all Liberal Arts students majoring in philosophy.

PHI 381CTWI: Senior Seminar in Philosophy and Religion

This course consists of readings and discussions in the area of the individual student's interest in philosophy and religion. Required of all Liberal Arts students majoring in philosophy/religious studies track.

Prerequisites: Senior standing or permission of the department.

PHI 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

PHI 470: Selected Topics in Philosophy

Topics in Philosophy that deal with a specific problem, area or philosopher will be selected for advanced study in depth.

Physical Education Class

PEC 13: Aquatic Activities

PEC 35: Fitness Walking

PEC 41: Golf/Volleyball

PEC 42: Golf Swings/Strokes

PEC 59: Innovative Games

PEC 67: Self Defense for Women

This course is clearly a Women's Studies course since the central focus is the development of skills and knowledge relative to women's ability to function effectively in an increasingly violent environment.

PEC 70: Personal Fitness

PEC 73: Fitness For Life

This course is intended to enable students to develop and participate in an individualized, self-directed, contractually assessed physical activity program. Course will be offered in an "on-line/distance learning" format that requires access to a computer and the internet.

PEC 76: Skiing/Snowboarding

PEC 77: Social Dance

This course will introduce the student to the basics and history of social dance. The focus of the course will be on the basic skill movements associated with six common social dances, their origin, etiquette, and history. Students will be expected to practice the skills associated with each of these dances and select two dances for in class presentation.

PEC 78: Strength Training & Resistance Exercise

PEC 80: Swimming

PEC 83: Tai Chi

PEC 84: Tai Chi/Personal Defense

PEC 90: Volleyball/Tennis

PEC 94: Hatha Yoga II

Hatha Yoga II is designed for the student with prior experience in Yoga. This course introduces students to more challenging variations of basic postures, and to asanas at the intermediate level. Pranayama, Yogic philosophy, meditation and stress-reduction exercises are integrated into each class.

Prerequisites: Successful completion of HPD 095 Hatha Yoga, or by permission of the instructor.

PEC 95: Hatha Yoga**PEC 887: Physical Education Elective****Physics****PHY 14: Physics of Superheroes**

The course is a one-semester general education physics course that uses the concepts of physics to look at super heroes in comic books and in movies. Physics is the study of how our universe works; these same concepts can also be applied to the fantastical universe of comic book superheroes. Students will learn about various concepts in physics (matter, energy, and force). We will examine gravity, electricity, magnetism, optics, relativity, and quantum physics and see how they apply to the universe of superheroes. Comic books apply actual physics that range from the Kryptonian world of Superman to the superhuman speed of Flash here on Earth. We will explore these fundamental principles of physics and use them to separate fact from fiction in the world of your favorite comic book characters. This course does not count toward the Physics major or minor.

PHY 20: Introduction to Physics

This course is an introduction to the principles of physics including mechanics, thermal physics, wave motion, electricity and magnetism, optics, atomic and nuclear physics. The traditional topics will be related to contemporary problems. This is a laboratory course intended for the general education of non-science majors. This course does not satisfy major, concomitant or specialization requirements for Secondary Education and/or Liberal Arts Science majors.

PHY 30: Environmental Physics and Chemistry

A study of some fundamental physical and chemical principles and their application to a few of the environmental problems facing our society today, with emphasis on the production and use of energy. A laboratory course intended for the general education of non-science majors. This course does not satisfy major, concomitant or specialization requirements for Secondary Education Science and/or Liberal Arts Science Majors.

PHY 35: Physics Guide to Life

This general education course examines the central concepts of physics by correlating them with patterns of life, human behavior and society. The course is ideas-driven, with no math beyond elementary arithmetic and geometry. A comprehensive picture of physics is conveyed, covering classical physics, quantum mechanics, relativity, elementary particles and statistical mechanics. The course will use analogies from common life experiences to build intuition about physical laws. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts and Science majors or count toward major GPA for Physics majors.

PHY 38: Intro To Electronics

This course provides a basic introduction to the subject of electronics. Topics include DC and AC circuits, band theory of solids, semiconductors diodes and transistors, filter circuits, rectifier circuits, voltage doubler circuits, and amplifier circuits. Laboratory exercises to familiarize the student with the operation and use of meters, oscilloscopes, and the above mentioned circuits are performed. This course is not open to Physics majors.

PHY 40: General Physics I

This is the first part of the algebra-based (non-calculus) introductory course sequence in physics. It will cover mechanics, vibrations and waves, and thermal physics. This course does not meet the program requirements of physics and chemistry majors.

Prerequisites: MAT 106 or MAT 115 or MAT 181

PHY 42: General Physics II

This is the second part of the algebra-based (non-calculus) introductory course sequence in physics. It will cover electricity and magnetism, and optics. This course does not meet the program requirements of physics and chemistry majors.

Prerequisites: PHY 40

PHY 100: Physics I

This is the first part of the calculus-based introductory course sequence in physics with lab. This course covers mechanics, vibrations and waves, and thermal physics, and is designed for students in physics, chemistry and related fields.

Prerequisites: MAT 171 (Successful completion of MAT 171 or concurrent enrollment).

PHY 102: Physics II

This is the second part of the calculus-based introductory course sequence in physics with lab. This course covers electronics and magnetism, and optics, and is designed for students in physics, chemistry and related fields.

Prerequisites: PHY 100 & MAT 181

PHY 212: Modern Physics I

This course offers an introduction to the theory of relativity and the ideas of early quantum physics. Topics include special relativity, blackbody radiation, photoelectric effect, Compton effect, x-rays, structure of the atom, emission/absorption spectra and the Bohr Model, wave-particle duality, and wave packets.

Prerequisites: PHY 102

PHY 214: Modern Physics II

This course provides a continuation of the discussion of early quantum physics into quantum mechanics and an introduction to atomic physics, nuclear physics and modern elementary particle physics.

Prerequisites: PHY 212 & MAT 182

PHY 220WI: Electronics

This course analog electronics – design and implementation. It includes the characteristics of passive components, solid-state diodes, transistors, and basic integrated circuits. DC and AC analysis of transistor and op-amp circuits leads to a survey of basic amplifier designs. Extensive lab work provides experience building and testing circuits.

Prerequisites: PHY 042-043 or PHY 102-103

PHY 230: Optics

This course provides a survey of optical science and its applications. Emphasis is given to geometrical and physical optics. Geometrical optics considers the propagation of light as rays through simple optical systems (mirrors, lenses, and prisms) leading to discussions of imaging, aberrations, and optical instruments. Physical optics studies include the propagation of light as waves by exploring the theory and applications of interference, diffraction, and polarization effects. Special topics such as quantum optics, integrated optics, Fourier optics, and/or applications in medicine, display technologies, and optical communications are also included.

Prerequisites: PHY 245 & MAT182

PHY 245: Mathematical Physics I

This is a sophomore level course on mathematical methods in physics. Many branches of mathematics that have direct applications in physics are discussed with an emphasis on developing problem solving skills. Topics include complex numbers, linear algebra and vector spaces, vector calculus, Fourier series, and ordinary differential equations.

Prerequisites: PHY 102 & MAT 181 or permission of the instructor

PHY 290: Introduction To Nanotechnology

Nanotechnology is the study of fabricating and manipulating matter at the scale of individual to a few atoms and molecules with typical structures ranging from 1 to 100 nanometers. With relentless miniaturization, nanotechnology is the inevitable technology of the future. This course will present the fundamental paradigm shifts implicit in taking conventional technology to the nanoscale, with focus on the dominant role of quantum mechanics and discrete structure of matter and radiation. With that background as a basis, the course will continue on to a comprehensive survey of the specific applications-based segments of nanotechnology, including novel nano-materials, nanoscale circuits and devices, lower dimensional structures, and molecular devices.

Prerequisites: PHY 214 or by permission of the instructor

PHY 310: Physics of Sound

The mathematical theory and basic physical principles of vibrations and sound. Production, propagation, and detection of sound waves, vibrations or sounding bodies, and acoustic measurement.

Prerequisites: PHY 100/101, PHY 102/103 and MAT 273 or MAT 274

PHY 312CT: Classical Mechanics I

This course offers a comprehensive study of kinematics and dynamics of particles in a Newtonian mechanical framework. Central forces and orbits, scattering, and Lagrangian and Hamiltonian mechanics are also discussed in great detail.

Prerequisites: PHY 245 & MAT182

PHY 314: Classical Mechanics II

This course is a continuation of the study of Newtonian mechanics. Topics covered include non-inertial frames, systems of particles, rigid bodies, oscillating systems and normal modes.

Prerequisites: PHY 312 and MAT 283

PHY 315WI: Advanced Physics Laboratory

This is an advanced level undergraduate laboratory physics course that features experiments in Mechanics, Thermodynamics, Electricity and Magnetism, and Modern Physics. The experiments are closely related to material covered in other upper-level physics courses. Many experiments require computer simulations or computer-based data acquisition processes.

Prerequisites: PHY 212

PHY 316QL: Electricity and Magnetism I

This course covers the fundamental principles of classical theory of electricity and magnetism, and the extension of these principles to Maxwell's Equations. Topics include electrostatics, boundary value problems, magnetostatics, electric and magnetic fields in matter, and time-varying fields.

Prerequisites: PHY 245 & MAT 283

PHY 318: Electricity and Magnetism II

This course is a continuation of the study of classical electricity and magnetism. Topics include electromagnetic waves, absorption and dispersion, wave, wave guides, gauge transformations, and radiation.

Prerequisites: PHY 316

PHY 319: Advanced Physics Laboratory II

This is an advanced level laboratory physics course in Electricity, Magnetism and Modern Physics. Advanced experiments from the areas of Electricity, Magnetism, Optics and Atomic, Nuclear and Solid State Physics are performed. Topics in error and data analysis are included.

Prerequisites: PHY 100 and PHY 316 and any CSC course above the 100 level or Permission of the Instructor.

PHY 327: Thermodynamics and Statistical Mechanics

This first part of this course will systematically cover classical thermodynamics with focus on four laws of thermodynamics and their applications and specific attention to heat engines. The second part of the course will provide an introduction to statistical mechanics, leading up to a derivation of the macroscopic results of thermodynamics from the underlying microscopic theory.

Prerequisites: PHY 245 & MAT 283

PHY 340: Computational Physics

This course covers the essential numerical methods used in physics and engineering, based on writing and debugging computer programs to implement those methods. Students will acquire the skills and the tools to analyze complex physics and engineering problems numerically, encode them in appropriate software, to be compiled and evaluated on computers to arrive at precise solutions and to present those solutions in graphical format if applicable. Course work will involve programming in Mathematica, Matlab, Fortran and /or C/C++ as appropriate.

Prerequisites: PHY 245 or permission of the instructor

PHY 342: Astrophysics

This course explores the physics of astronomical phenomena, from processes within our Solar System to the creation and evolution of stars, galaxies, and the Universe. The course is designed for physics majors and other science majors with strong interest in astronomy, physics, and mathematics. This course takes a mathematically rigorous approach of applying basic principles of physics to astronomy, and therefore also provides a foundation for more advanced (undergraduate and graduate level) coursework in astrophysics.

Prerequisites: PHY 212 and MAT 273

PHY 345: Mathematical Physics II

This is an upper-level course on mathematical methods in physics. Topics include calculus variation, special functions, complex functions and residue theorem, partial differential equations, and probability statistics.

Prerequisites: PHY 245 & MAT 283

PHY 350: Instrumentation in Physics

This course covers the instrumentation commonly used to perform measurements of physical quantities. The underlying physics of different sensors is described, and then these sensors are used in experiments. Interface circuits and detection techniques are also explored. Extensive laboratory work is involved.

Prerequisites: PHY 220

PHY 360: Quantum Mechanics I

This course explores the fundamental principles of quantum mechanics. Topics include the application of Schrodinger equation in one-dimensional systems, Hilbert space formalism, the hydrogen atom, angular momentum algebra, and philosophical implications of quantum mechanics.

Prerequisites: PHY 214, PHY 245 & MAT 283

PHY 361: Quantum Mechanics II

This course is the second part of the study of quantum mechanics. Topics include time-independent perturbation theory, adiabatic approximation, and scattering.

Prerequisites: PHY 360

PHY 362: Solid State Physics

This course is an introduction to the subject of solid state physics. Topics include crystal structure, crystal binding, lattice vibrations, thermal and electrical properties of solids, the Fermi gas, band theory of solids, conductors and semiconductors, superconductivity, magnetic properties, and crystal defects.

Prerequisites: PHY 360

PHY 364: Nuclear Physics

This course is an introduction to the subject of nuclear physics. Topics include nuclear structure and models, nuclear transitions and decay, nuclear reactions, radiation detection, natural radioactivity and elementary particles.

Prerequisites: PHY 360

PHY 370: Research in Physics

This course involves individual research on a specific problem in physics or a related field under the advice of a faculty member. Students must discuss research opportunities with any faculty member whose areas of expertise interest them. This course can be repeated for credit.

Prerequisites: Requires instructor consent.

PHY 372: Selected Topics in Physics

Topics in the field of physics that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated. The instructor must approve a 1-3 semester hours as required.

PHY 373: Selected Topics in Physics

Topics in the field of physics that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated. The instructor must approve a 1-3 semester hours as required.

PHY 374: Selected Topics in Physics

Topics in the field of physics that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated. The instructor must approve a 1-3 semester hours as required.

PHY 375: Selected Topics in Physics

Topics in the field of physics that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated. The instructor must approve a 1-3 semester hours as required.

PHY 380CMWI: Senior Seminar in Physics

This course consists of readings and discussions in the area of the individual student's interest in physics in preparation for the Comprehensive Examination in Physics. Required of all Liberal Arts students majoring in Physics.

PHY 390: Internship in Physics

Supervised, practical work experience in laboratory and/or field situations. Students interested in developing an individualized vocationally oriented program which may assist in future career options may structure a work-study experience with the cooperating agency or organization. A proposal outlining the work-study experience should be submitted to the student's supervising faculty member and the department chairperson. Clock hours will be determined by the cooperating agency or organization. Semester hour credit will be based upon the proposal and scheduled clock hours, but a maximum of 4 credits may be applied toward Arts and Sciences electives. Additional credit cannot be applied to the 128 credit hour graduation requirements.

Prerequisites: PHY390-Junior Standing & approval of the department head

PHY 395: Honors Independent Study/Thesis

This course involves research on a specific problem in physics or a related field under the advice of a faculty member. Students must discuss research opportunities with any faculty members whose area of expertise interests them.

PHY 465: Advanced Physics Laboratory II

This is an advanced level laboratory physics course in electricity, magnetism and modern physics. Advanced experiments from the areas of electricity, magnetism, optics and atomic, nuclear and solid state physics are performed. Topics in error and data analysis are included. This course will cover topics at a more in-depth level than PHY 319. A student may not enroll in this course if he/she has successfully completed PHY 319.

Prerequisites: PHY 212 and PHY 316

PHY 470: Quantum Mechanics

This course is an introduction to the subject of quantum physics. Topics include wave-particle duality, state functions and their usefulness, the Schrodinger equation, uncertainty principle, expectation values of observables and applications of quantum physics to one dimensional systems. The hydrogen atom is also considered. This course will cover topics at a more in-depth level than PHY 360. A student may not enroll in this course if he/she has successfully completed PHY 360.

Prerequisites: PHY 312

PHY 472: Solid State Physics

This course is an introduction to the subject of solid state physics. Topics include crystal structure, crystal binding, lattice vibrations, thermal and electrical properties of solids, the Fermi gas, band theory of solids, conductors and semiconductors, superconductivity, magnetic properties, and crystal defects. This course will cover topics at a more in-depth level than PHY 362. A student may not enroll in this course if he/she has successfully completed PHY 362.

Prerequisites: PHY 360 OR PHY 470

PHY 474: Nuclear Physics

This course is an introduction to the subject of nuclear physics. Topics include nuclear structure and models, nuclear transitions and decay, nuclear reactions, radiation detection, natural radioactivity and elementary particles. This course will cover topics at a more in-depth level than PHY 364. A student may not enroll in this course if he/she has successfully completed PHY 364.

Prerequisites: PHY 360 OR PHY 470

Political Science

POL 10: American Government

The historical background and general principles of American federal government. The congress, the presidency, administrative organization, civil service, the courts, and political processes are described and analyzed.

POL 20CD: International Relations

A study of the diplomatic, organizational, military, and legal relationships among states. Designed to provide a conceptual framework leading to a better understanding of international developments, the course considers the nation-state system, sovereignty, nationalism, the sources of national power, the foreign policy making process, and conflict and conflict resolution.

POL 30CD: Introduction to Comparative Politics

A comparative examination of the cultural environments, decision-making processes, leadership patterns, public policies and political development tendencies of western and non-western societies. Problems of methodology are reviewed.

POL 40: Introduction to Political Theory

This course is a survey of classical Western political thought. Works covered in this course are crucial for an understanding of the development of political thought in Western civilization, political culture, and government. This course critically examines the major political philosophers from ancient Greece through the Middle Ages. It focuses on issues such as nature, justice, the good society, and the role of the state.

POL 50: State and Local Government

A general consideration of federal, state, and interstate relations followed by a more detailed treatment of the state-local government relation in the United States. Particular emphasis is placed on the citizen's role and representation in grassroots government. Possibilities for improvement of state and local government are explored.

POL 101WI: Social Research Design and Writing

Social Research Design and Writing introduces students to the formal process of social scientific inquiry. As in any scientific discipline, knowledge in political science is advanced through the careful application of the scientific method, emphasizing the development of theoretical explanations, derivation of testable hypotheses, and creation and application of a research design used to empirically evaluate the theoretical claims. This course focuses on the core elements of the scientific research process, including the inception of the research question, preparing an academic literature review, generating theoretical claims, deriving testable hypothesis, and designing an empirical research design.

POL 115: Public Administration

The basic principles of administration in the public sector are presented and analyzed. Surveys the historical development of contemporary public administration and examines the process, both formal and informal, by which public policy is implemented.

POL 132CD: Western European Governments

A study of the governmental systems and politics of Western European nations. Special attention is given to Great Britain, France and Germany. Contrasts and comparisons are drawn among these governments and with other governments, including the United States.

POL 133CD: The Politics of Cuba and the Caribbean

The Politics of Cuba and the Caribbean aims to use the analytical tools of comparative politics to impart a comprehensive understanding of Cuban politics, society, and culture, within the broader context of the unique challenges facing the countries of the Caribbean and their diasporas in the United States. Cuba is a country that for many remains shrouded in mystery and intrigue. This course will challenge the dominant perceptions about Cuba that have been shaped by the American news media and popular films. Using articles and texts from a variety of political perspectives (including sources from within Cuba) will bolster student debate on the relative significance of different historical trends and developments as well as controversial current events. While highlighting the intricacies of Cuba's historical and political development, this course will also place Cuba in a comparative context with the experiences of other countries in the Caribbean to examine a variety of themes central to study of the comparative politics.

Prerequisites: POL 030 Introduction to Comparative Politics

POL 134: Politics of the Middle East

A comparative analysis of the political systems of an area that encompasses seventeen countries, including 13 Arab states, two Persian-dominated states (Iran and Afghanistan), plus Turkey and Israel. Special attention is paid to the fragmented Islamic cultural traditions of the region, the impact of Western Colonialism, the monarchical-socialist dichotomy, the special problems of Israel and the Palestinian Arabs, as well as the politics of oil.

POL 135: Urban Politics

An examination of the place of municipalities in the American political system. The relationship of municipalities to the state and federal government. Forms of municipal government will be examined as well as proposed forms of metropolitan government. Participation in municipalities will be considered along with a discussion of individual participants, particularly majors, managers, and councilmen. Current municipal problems and future prospects for municipalities will be discussed.

POL 140CTWI: Law and Society

A introductory course that surveys selective legal and socio-political views on the place of the legal system in society. Attention will be given to contemporary issues which raise significant or troubling questions for the main theoretical themes, such as the historical basis for the principles of the "rule of law" or an "autonomous legal system" and the social conditions for their existence or nullification.

POL 141: Modern Western Political Theory

A critical examination of political theory as it developed in the West since Machiavelli. Emphasis will be on the development of liberalism, democracy, socialism, communism and fascism. Contemporary trends will be considered.

POL 181: Criminal Law

This course is an in-depth analysis of criminal law in the United States. It focuses on the nature and purposes of criminal law, the sources of classifications and limitations on criminal law, the elements of criminal liability, defenses to criminal liability, parties to crime and the specific crimes against persons, property and public order and morals. Attention will be given to the model penal code and the criminal law of Pennsylvania. Prerequisites: Criminal Justice, Political Science, & Public Admin majors/minors

POL 182: Criminal Procedure

An extensive analysis of criminal procedure in the United States. The course will focus on decisions of the U.S. Supreme Court dealing with criminal procedure principles and doctrines. This course is designed as a follow-up course to Criminal Law. Prerequisites: Criminal Justice, Political Science, & Public Admin majors/minors

POL 200QL: Statistics for the Social and Behavioral Sciences

The purpose of this course is to introduce the student to the concepts of descriptive and inferential statistics. The results of any research should be summarized by appropriate descriptive statistics such as central tendency, variability, and the shape of the distribution. Relationships will be studied using correlation, regression, and chi-square. Research which involves sampling will be analyzed by appropriate inferential statistics such as t-tests and ANOVA. Sampling error, hypothesis testing, significance levels, Type I Error, Type II Error, and power will be discussed. In addition, the student will be introduced to SPSS for Windows, Microsoft Excel, and/or other appropriate software for performing descriptive and inferential statistical procedures presented throughout the course. No students (Sociology or non-Sociology majors) may receive credit for both POL/PSY/SOC 200 and SOC 201 due to substantial overlap.

Prerequisites: PSY 011 (Psychology majors need a 'C' or better) and MAT 017 or higher (except 040 Geometry, and 045 Women in Mathematics). Students that have passed SOC 201 with a grade or "D" or better may not take this course.

POL 201CPQL: Empirical Political Analysis

An introduction to political analysis based on systematic social science methods. Discussion of differing approaches to Political Science but concentration on empirical analysis. Topics include the nature of social science, measurement, statistical analysis and hypothesis testing. The course is intended primarily for political science major students and is not a proper choice for a student seeking to survey the subject matter of political science.

Prerequisites: POL 101

POL 211VL: Public Opinion and Propaganda

An examination of various aspects of public opinion and political influence, including: definitions of public opinion; an overview of political socialization; analysis of the structure of public opinion and propaganda in modern societies; evaluation of the ideals and realities of popular government; and an introduction to methods of public opinion measurement.

POL 213: The Judicial Processes

An analytic study of the most significant facets of the entire American legal system. Basic legal theories, basic structure of federal and state court systems. Judicial reasoning process, the system of precedents and the most basic and important substantive areas of law will be considered.

POL 214: American Political Parties

The first part of the course will examine the development of party systems from a comparative perspective. The remainder of the course will examine the development and functioning of the American party system. Such topics as interest representation, recruitment, campaigning, party organization, and electoral behavior will be examined. The role of political parties in a democracy and the concept of party responsibility will also be considered.

POL 222: International Political Economy

This course introduces students to the key concepts, theories, and substantive issues of international political economy. Special attention is paid to the historical development of the modern international economic system, trade, monetary and finance policies, development, and globalization. The overall emphasis of the course is on the politics of international economic relations. In other words, who wins, who loses, and why? Furthermore, what principles are at stake when policy-makers consider and make various choices? This course may be used as a General Education elective.

POL 224: Politics of Development

Politics of Development examines political, economic, and social development and underdevelopment in the plethora of countries that comprise the Developing World. Utilizing a comparative approach, the course identifies the common challenges faced by developing countries and the strategies adopted to address them. Major topics considered in the course include the evolution of markets and determinants of economic growth; nation-building and political developments (e.g., democratization); the role of developed countries and international organizations in the developing world; and human rights and globalization.

POL 225CT: Planning and Decision-Making Theory

An examination of modern techniques of rational decision-making such as cost-benefit analysis, with special attention given to how these techniques are applied to environmental problems. Problems in planning and the quantification of values are considered.

POL 227WI: International Conflict and Security

International Conflict and Security examines nation-states' efforts to maintain their borders and protect their government and citizenry from inter and intra-state conflict. In doing so, the course will place a special interest on the theoretical and methodological concepts that are fundamental to studying such issues as deterrence, compellence, and international engagement. Additionally, attention is paid to the concept of security in a post Cold War World and how nation-states are attempting to meet the evolving economic, ecological, and terrorist challenges. The course may be used as a General Education elective.

POL 228CTWI: American Foreign Policy

A study of the American foreign-policy-making process with a focus upon the institutions and functions of America's foreign relations. Special emphasis is given to the period since 1945. Case studies are utilized.

POL 231CDWI: Social Movement and Revolutions

Social Movement and Revolutions analyzes the causes, objectives, strategies, and consequences of major social movements and revolutions throughout world history. Revolutions are among the most hotly-debated and far-reaching political events in terms of their consequences for human development, ideological viability, and the nature of world political systems. This course will offer students a broad theoretical framework for understanding the place of social movements, cycles of contention, and revolutions within the more general category of contentious politics. The course will analyze both successful and failed cases of social contentious politics. The course will analyze both successful and failed cases of social movements. Additionally, the challenges for both social movement formation and success in the 21st century will be addressed in detail. Prerequisites: POL 030 Introduction to Comparative Politics

POL 242: Democratic Theory

This course acquaints students with both classical and recent democratic theory and the issues that surround democratic governance. Many argue that democracy is the only legitimate form of government. This is evidenced by the proliferation of representative governments throughout the world during the 20th century. As it stands today, some form of democratic government makes up the majority of regime types in the world. This course begins with the meaning of democracy and then examines the obstacles to democratic governance, such as: challenges of capitalism, protection of minority rights, issues on representation, lack of legitimacy, and political culture. By the end of this course, students will be able to describe and summarize the concepts, theoretical debates, and limitations to democracy, clearly articulate and defend a conceptual and institutional understanding of democracy, and coherently present the limitations and issues of each theoretical model.

POL 311: Constitutional Law I: Institutions and Functions

A study of the development of the Constitution through the interpretations of the Supreme Court. The course emphasizes the institutional aspects of the federal system and also economic regulation within the federal system.

POL 312WICT: Constitutional Law II: Civil Liberties

An analytical study of the U.S. Supreme Court cases interpreting clauses of the Constitution guaranteeing the rights of individuals: the meaning of the Bill of Rights and the Fourteenth Amendment. Attention is focused on recent decisions and their impact on the governmental system and society.

POL 313: The American Presidency

A study of the development, dynamics, politics, and impact of the American Presidency.

POL 314: The Administration of U.S. Environmental Law

Designed to introduce students to the legal, administrative and political dimensions that pervade national environmental disputes, laws, and regulations. The course will employ both a legal and administrative process orientation. Through the use of legal case material and legal, political, statutory and regulatory analysis, students are taught about the different ways statutes and regulations attempt to address environmental problems, including the strengths and weaknesses of each generic statutory and regulatory type. No prerequisites, although it is preferred Introduction to ENV 100 Environmental Science or POL 010 American Government should be taken first.

POL 316: Law and Sex-Based Discrimination

An extensive examination of the constitutional and legal bases of sex-based discrimination in the United States. The course will focus specifically on statutory law and judicial decisions relating to discrimination of both men and women.

POL 321: International Law and Organization

An analytical study of the legal framework, principles, and practices of the nation-state includes the forms and functions of international organizations with special reference to the role of the United Nations in contemporary international politics with a focus on selected legal problems.

POL 322: International Relations Theory

International Relations Theory examines the competing theoretical models that explain the fundamental issues in world politics. Utilizing an applied theoretical approach, the course examines and deconstructs the dominant international relations theories and tests their explanatory power with both historical and modern issues. Major theories considered in this course are realism, liberalism, constructivism, critical theories (e.g. feminist and Marxist approaches), and decision-making theories. Inter alia, topics considered are alliance formation, strategic choice and conflict, international institutions and their role in facilitating cooperation and trade, arms control, globalization, and morality.

POL 325: The American Legislative Process: National and State

A study of legislative institutions, process and behavior at the national and state legislative levels. Particular emphasis is given to a description and analysis of the vast quantity of legal, historical, normative and behavioral literature available in this field. Legislative processes are analyzed with emphasis on their relation to the larger environment and inclusive political systems.

POL 332CDWI: The Politics of Latin America

An examination of the major forces which determine the politics of the Latin American states. A problem-centered approach is emphasized, designed to highlight the most important contemporary issues confronting these countries in both their domestic and external relations.

POL 341: American Political Thought

A critical examination of the essence and development of the American political culture. Contemporary trends in American political thought will be considered.

POL 346: Public Budgeting and Fiscal Management

This course will address all major facets of public budgeting theory including budgetary formats, governmental budgetary decision processes at the federal, state, and local levels, bargaining and politics in budget decision making, governmental tax policies, and strategies for fiscal management. In addition, the course will focus upon practical application of theory through the use of real-life case studies. A special section on grant writing and non-profit fiscal management will highlight the needs of non-profit organizational management.

POL 347CM: Human Resource Management in the Public Sector

This course will cover both the general theory of human resource management and the practical applications of this theory in the public sector. Students will be exposed to various aspects of human resource management including job analysis, worker motivation and management, labor/management relations and collective bargaining. Public sector issues such as equal worth, sexual harassment, ADA and equal employment opportunity will also be addressed. In particular, the course will highlight the constitutional, legal and political constraints and requirements which are unique to public sector management.

POL 370: Independent Study in Political Science

Independent reading or research under the supervision of a member of the department in an area of political science of special interest to the student. A total of 6 semester hours may be earned in independent study, with no more than 3 semester hours taken in any one semester.

Prerequisites: Twelve credits of Political Science coursework

POL 371: Selected Topics in Political Science

An analytic study of a selected topic in Political Science. Topics will vary depending upon interests of student and faculty, or timeliness of the subject matter. The course may be repeated for credit twice, provided that the same topic is not repeated.

POL 372: Selected Topics in Political Science

POL 374: Selected Topics in Political Science: Viet War

POL 375: Selected Topics in Political Science

POL 376: Selected Topics in Political Science

POL 377: Selected Topics in Political Science

POL 378: Selected Topics in Political Science

POL 379: Selected Topics in Political Science

POL 380: Senior Seminar in Political Science

Readings and discussions in the area of the individual student's interest. The course serves as preparation for the comprehensive examination in Political Science. Required of all Liberal Arts students concentrating in Political Science.

POL 381CMWI: Senior Seminar in Public Administration

Readings and discussions on the subject of the field of public administration and in the area of the individual student's interest. The seminar concentrates on the history and nature of public administration. The course serves as preparation for the comprehensive examination in public administration. Required of all Liberal Arts students majoring in Public Administration.

Prerequisites: Senior standing, Public Administration major.

POL 390: Federal, State, and/or Local Government Internship

A limited number of selected students participate in a study and training program on location in federal, state, or local government offices under faculty supervision for a full semester, full time. Consultation with the Political Science Department is required prior to registration for this program. Open only to Political Science or Public Administration majors.

POL 391: The Harrisburg Internship Semester (THIS): Internship

THIS Internship is a program sponsored by PASSHE and is designed to give the student firsthand, practical experience and the opportunity to work alongside officials at all levels of state government. THIS is open to qualified students from any major, who have a 3.0 GPA and have earned 45 credits. A faculty Campus Coordinator selects students from the university to serve as THIS interns.

POL 392: The Harrisburg Internship Semester (THIS): Research

The Harrisburg Internship Semester provides a comprehensive academic approach to the internship experience. THIS Internship is a program sponsored by PASSHE and is designed to give the student firsthand, practical experience and the opportunity to work alongside officials at all levels of state government. In addition, students are required to complete a thesis-length research project. THIS is open to qualified students from any major, who have a 3.0 GPA and have earned 45 credits. A faculty Campus Coordinator selects students from the university to serve as THIS interns.

POL 393: The Harrisburg Internship Semester (THIS): Seminar

The Harrisburg Internship Semester provides a comprehensive academic approach to the internship experience. THIS Internship is a program sponsored by PASSHE and is designed to give the student firsthand, practical experience and the opportunity to work alongside officials at all levels of state government. In addition, students are required to participate in rigorous weekly public policy seminar. THIS is open to qualified students from any major, who have a 3.0 GPA and have earned 45 credits. A faculty Campus Coordinator selects students from the university to serve as THIS interns.

POL 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

POL 425: Public Policy Making

The study of public policy within an analytical framework. Emphasis will be given to: conceptual frameworks and approaches to the study of public policy; the role of the environment in the policy process; the effect of political structures and institutions on public policy; and the citizen in the policy process.

Prerequisites: Undergraduate - POL 010 American Government.

POL 441: Managerial Leadership and Ethics

This course gives graduate public administration students a fundamental and practical understanding of effective administrative leadership. Various leadership approaches are examined, paying particular attention to the public sector. With leadership comes ethical responsibility. How does one attain organizational objectives while accommodating for politics, ethics, and multiple agendas? How does a public administrator balance conflicting interest and the public good? In what way is integrity the means to effective leadership?

POL 465: Administrative Law

An analytic study of the law dealing with the power, procedures, and judicial review of the administrative agencies of government; emphasis will be placed on federal agencies and procedures. Graduate course open to juniors and seniors with 2.90 Q.P.A. and Departmental permission.

Professional Studies**PRO 100WI: Introduction to Business for the Non-business Major**

This course is an introductory course designed to familiarize students with the nature and purpose of business enterprises. Topics explored include: the environment of business organizations and their role in society and the economy, forms of ownership, the management process, managing human resources, developing marketing plans, and managing financial resources. This course cannot be used by business majors to fulfill business course requirements.

PRO 110: Marketing for the Non-business Professional

Fundamentals of Exchange is an introductory course which exposes students to creating customer value and facilitating the exchange between seller and buyer. The importance of value in the customer-supplier exchange will be emphasized. The focus of the course is creating satisfaction of customers' needs through product/service planning and development, distribution selection, promotional decisions and price determination. Students will have the opportunity to explore these topics in a variety of different unique industries. This course cannot be used by business majors to fulfill business course requirements.

PRO 120QL: Accounting Survey for Professional Studies

This course is designed to provide a basic understanding of Accounting and other related financial issues that may be encountered by students entering the business world. Students will be exposed to a variety of Accounting topics, some financial, some managerial. Students will be expected to demonstrate how financial information is gathered, reported and used in the decision making process. This course cannot be used by business majors to fulfill business course requirements.

PRO 185CT: Fundamentals of Personal Finance

Fundamentals of Personal Finance is an introductory course that explores financial planning techniques to manage personal financial plans. Developing personal financial statements and plans will be explored. Other topics will include: considerations of managing basic assets such as cash and savings, automobile and housing decisions, managing credit and investments, and retirement planning. This course cannot be used by business majors to fulfill major course requirements.

PRO 210: Entrepreneurship – Start Your Own Business for Non Business Majors

This course is designed for non-business majors who want to start their own business. The course will focus on how to start and operate a small business. A primary focus of the course will be the development of a business plan. The business plan will focus on the key parts of planning and operating a business such as management, marketing, creating financial statements and determining financial requirements.

PRO 220: Wealth Creation for the New Entrepreneur

This course is designed for students in any major who wish to begin and develop a new business enterprise in their disciplinary field or in a different field of endeavor. The course will focus on topics of taxation for the new business, as well as taxation for the growing business. Also, topics will be covered in the areas of profit sharing, retirement funds, and methods of transferring funds between businesses. All topics target the new entrepreneur.

PRO 232WI: Practical Leadership

Practical Leadership is a study of leadership focused on personal development and the practical application of leadership skills in organizations of all kinds. This course examines the experience of successful leaders in diverse walks of life and encourages students to reflect on how to develop their own leadership abilities over a lifetime. Prerequisites: ENG23, ENG24 or ENG25

PRO 290: Selected Topics in Professional Studies

This course will permit the exploration of specialized topics that are not covered in existing courses or are not available to non-business majors. The course will emphasize a variety of current topics and contemporary issues in business, the economy and that affect the students as employees and consumers. Students will review current literature and improve their ability to analyze and express their thoughts relative to the selected topic. This course cannot be used by business majors to fulfill business course requirements.

PRO 410: Accounting, Budgeting, and Financial Reporting for Public Libraries

This course is designed for students majoring in Library Science and professional librarians wishing to strengthen their knowledge of Pennsylvania Law relating to accounting, financial reporting, and budgeting for public and special libraries in the Commonwealth of Pennsylvania.

Professional Writing**WRI 100WICT: Contemporary Issues in Professional Writing**

This course introduces students to the range of career opportunities and responsibilities within the field. Faculty members from the professional writing staff will assist the professor of record in developing and presenting an introduction to their respective areas of expertise. Other working professionals - including faculty from other departments, alumni, and area writers and/or employers interested in developing writing talent and/or in sharing their expertise - will be invited to participate when appropriate. Because the course provides an introduction to and overview of professional writing, students should complete the course early in their program.

Prerequisites: Majors: BA English, BA Eng/Prof. Writing, BSED SEC ED/Eng, BA Eng/Paralegal, BA Eng/Culture & Media, BA Eng/Prof Wri/Culture & Media Minors: Prof Writing, Literature, Public Relations with a grade of "C" or better in ENG 23,24 or 25.

WRI 205WI: Scientific Writing

The writing of formal reports and technical and scientific papers.

Prerequisites: ENG23, ENG24 or ENG25

WRI 207WICT: Writing for the Workplace

Theory of and practice in written business communication. Letters and memoranda, reports, and a research paper are required. Models and case studies are used extensively.

Prerequisites: Majors: BA English, BA Eng/Prof. Writing, BSED SEC ED/Eng, BA Eng/Paralegal, BA Eng/Culture & Media, BA Eng/Prof Wri/Culture & Media Minors: Prof Writing, Literature, Public Relations -OR- Junior status with a grade of "C" or better in ENG 23,24 or 25.

WRI 208WI: Creative Writing: Exploring Forms

This course explores the various forms of creative writing through practical examination of the writing process, writing practice in multiple genres, and experiments in the transformations of familiar forms. While the course is useful particularly to creative writers, it is also designed to develop and sharpen academic or professional writing through creative practice. The course will be modeled as an apprentice workshop. In addition to writing, students will read poetry, fiction, non-fiction, and drama.

Prerequisites: Majors: BA English, BA Eng/Prof. Writing, BSED SEC ED/Eng, BA Eng/Paralegal, BA Eng/Culture & Media, BA Eng/Prof Wri/Culture & Media Minors: Prof Writing, Literature, Public Relations -OR- Junior status with a grade of "C" or better in ENG 23,24 or 25.

WRI 211WI: Journalism

A study of the methods and philosophy of good journalism. A general survey of the development of journalism in this country and a study of the organization, management, and supervision of the content of school publications are included.

Prerequisites: Majors: BA English, BA Eng/Prof. Writing, BSED SEC ED/Eng, BA Eng/Paralegal, BA Eng/Culture & Media, BA Eng/Prof Wri/Culture & Media Minors: Prof Writing, Literature, Public Relations -OR- Junior status with a grade of "C" or better in ENG 23,24 or 25.

WRI 212WICT: Introduction to Mass Communications

A study of the method and philosophy of mass communications. Historical growth of the mass media is described. Interrelationships of present forms of mass communication are linked to the underlying necessity to write, speak, and think clearly and honestly.

Prerequisites: BA English, BA Eng/Prof Writing, BSED SEC ED/Eng, BA Eng/Paralgl, BA Eng/Culture&Med, BA Eng/Prof Wri/Cultr&Med, BA ComStudies, BA ElecMedia.
Minors: Prof Writing, Literature, PubRelations, Comm Studies, Digtl Comm&New Med
OR Jr with grade of "C" in ENG23-24-25

WRI 213WI: Copy And Line Editing

Students in this course edit and re-write manuscript copy as well as their own writing. Emphasis is placed on identifying and correcting errors in grammar, punctuation, sentence structure, and essay structure to produce clear and polished copy.

Prerequisites: Majors: BA English, BA Eng/Prof. Writing, BSED SEC ED/Eng, BA Eng/Paralegal, BA Eng/Culture & Media, BA Eng/Prof Wri/Culture & Media Minors: Prof Writing, Literature, Public Relations -OR- Junior status with a grade of "C" or better in ENG 23,24 or 25.

WRI 214WICT: Magazine Writing

This basic course introduces students to magazine writing. Students learn what constitutes magazine style writing by studying magazine articles from a wide range of publications intended for diverse markets. Students examine the growth and development of the medium, the current state of the industry and trends for the future. Students write magazine articles and study the processes by which articles may be sold to appropriate publications.

Prerequisites: ENG23, ENG24 or ENG25

WRI 216WICM: Writing for Public Relations

Students in this course analyze and compose various documents related to the field of public relations. Emphasis is placed on shaping perception through crafting clear, direct, and accurate prose.

Prerequisites: English 023 or its equivalent and WRI 211; or permission of instructor.

WRI 217: Storytelling in Public Relations

This course will teach the craft of storytelling as it applies to public relations. Students will learn basic narrative theory, how to identify story ideas, how to pitch stories to the media, and practice a variety of research techniques, including interviewing. Students will also write stories designed to advance or enhance the reputation of an organization. Class projects will focus on both written and visual storytelling.

This is a required course for all undergraduate Public Relations majors and an elective course for students in the Professional Writing major and Public Relations minor.

Prerequisites: ENG23, ENG24 or ENG25

WRI 220WI: Technical Writing and Communication

Technical Writing and Communication teaches writers how to explain in simple language technical and scientific concepts (or processes) that are difficult for the average reader to understand. Toward that end, students will produce articles and reports on current trends in fields such as science and engineering. In addition, non-scientific fields may be covered, such as medicine, law, music, education, insurance, and banking. Instruction manuals may also be covered, as well as help documents and other process-oriented materials for private companies or governmental agencies. This course in technical writing requires familiarity with the World-Wide Web and some experience with word-processing software.

Prerequisites: WRI207

WRI 222: Conventions of English Grammar

This course surveys the fundamentals and conventions of English grammar and syntax. Topics include lexical categories, phrase structure, clause structure, modification, subordination, punctuation, and language acquisition. Additional attention is given to stylistic concerns in order to sharpen students' prose. This course is recommended for those pursuing degrees in Professional Writing, English, Elementary Education, and Secondary Education/English although it is open to any student wishing a deeper understanding of English grammar.

Prerequisites: ENG23, ENG24 or ENG25

WRI 226WICP: Desktop Publishing: Writing and Editing Newsletters

Students in this course write and design short and long newsletters. Publications are created about current issues and for professional organizations. Emphasis is placed on positioning the organization through interesting, newsworthy articles and also on the interaction of text and graphics and the value of clean document design.

Prerequisites: ENG23, 24, or 25 & WRI 211 & BA English, BS Electronic Media, and minor in Public Relations, Writing or Speech Communications only; other majors contact your home department for more information.

WRI 244: Story Analysis & Screenplay Development

This course will offer students a comprehensive understanding of story analysis and screenplay development and will give them pragmatic tools used by the professional reader and development executive in the motion picture and television industry today. Students will learn and practice coverage skills while gaining an understanding of the elements of story. Class topics will include various types of coverage; how to compose story notes; and character breakdowns, treatments and outlines. Upon completion of the course, students will have written at least three pieces of full coverage that can be used as a part of a professional portfolio or to interview for a job as a reader or development assistant.

Prerequisites: ENG23, ENG24 or ENG25

WRI 250: Writing for Social Media

Students will learn theories and practices associated with using a variety of social media platforms for public relations purposes. A "working" class, this experience will require students to maintain a social media presence for a specific, real client. This is an elective course for all undergraduate students enrolled in the Professional Writing major and Public Relations minor.

Prerequisites: ENG23, ENG24 or ENG25

WRI 303WI: Investigative Journalism

WRI 303 Investigative Journalism concerns the strategies and techniques of in-depth reporting. Students critically analyze professional investigative and public affairs reportage. In pursuit of their own stories, students learn how to acquire original and electronic documentation at the local, county, state and federal levels.

Prerequisites: English 023 or its equivalent and WRI 211; or permission of instructor.

WRI 304WI: American Literary Journalism

WRI 304 Literary Journalism concerns the relationship between mass media journalism and literature, focusing on strategies and techniques of significant works and movements in American journalistic literature that students may apply to their own writing.

Prerequisites: English 023 or its equivalent and WRI 211; or permission of instructor.

WRI 305WI: Journalism Laboratory

WRI 305 Journalism Laboratory provides guidance in the preparation and writing of news and feature material for the student newspaper, as well as examines issues facing the student press.

Prerequisites: English 023 or its equivalent and WRI 211; or permission of instructor.

WRI 306: Advanced Magazine Writing: Covering a Specialty

This advanced course teaches students of magazine journalism how to develop a specialty. Students continue to study what constitutes magazine style writing by reading magazine articles from a wide range of publications and studying how their own specialty manifests in different publications. Students research and write magazine articles and study the process by which articles may be sold to appropriate publications.

Prerequisites: ENG23, ENG24 or ENG25

WRI 308: Rhetoric and Writing

This course focuses on established and developing rhetorical and stylistic theories which form the conceptual base of the practice and study of writing and stresses the students' application of these theories.

Prerequisites: ENG23, ENG24 or ENG25

WRI 311WI: Creative Writing: Short Fiction

Students in "Creative Writing: Short Fiction" develop writing skills as will enable them to produce original works of fiction. Students read, analyze, and critique each other's stories as well as those by accomplished fiction writers, and ideas, techniques, and aesthetic concepts are discussed in a workshop setting.

Prerequisites: ENG 023-24 or 25 and WRI 208; & BA English or Writing minors only

WRI 312WI: Creative Writing: Poetry

WRI 312 Creative Writing: Poetry is an advanced course in the writing of poetry, focusing on poetic craft and style through critical analysis of student poems, and analysis, interpretation, and evaluation of published contemporary poetry. The course will be conducted as a workshop with extensive peer review.

Prerequisites: ENG 23 or ENG 24 or ENG 25 and WRI 208

WRI 313WICM: Creative Writing: Drama

An advanced course in the writing of drama.

Prerequisites: ENG 023, WRI 208, and two additional writing courses or permission of the instructor. BA English and Writing minors only.

WRI 314WI: Pop Music Journalism

Students are given exposure to and practice in writing about popular music in a variety of genres and for a variety of audiences. Students learn the practices of evaluation, interpretation, and analysis of popular music artists, performances, representations, genres, songs, albums, music videos, subcultures, etc.

Prerequisites: ENG 023 or ENG 025. WRI 211 or WRI 214 or permission of instructor and department chair.

WRI 316WI: Public Relations and the Corporate Environment

PR and the Corporate Environment introduces students to the various roles public relations professionals play in both internal and external corporate communication strategies and efforts.

Prerequisites: ENG 23 or ENG 24 or ENG 25 AND WRI 207

WRI 318WI: Sports Writing and Reporting

Sportswriting provides students with the tools to write legitimate sports stories worthy of publication. Journalistic fundamentals such as research, interviewing, storytelling, accuracy, editing, and ethics will be stressed. The course will also involve photojournalism and the development of an online sport-related presence. This course requires familiarity with the Internet, access to a digital camera, and experience with word processing and slide show software.

Prerequisites: ENG23, ENG24 or ENG25

WRI 321WI: Information Design: Writing and Editing for On-Line Publications

This course will introduce students to the fundamental principles of web-based information publishing. The course will allow students to engage in the entire process of writing and designing for the Web: rhetorical analysis, strategic planning, content development, document and site design, integration of visual elements, usability testing, and assessment. Throughout, emphasis will be placed on writing strategies for on-line publications. This course will be restricted to Professional Writing majors.

Prerequisites: Writing 220

WRI 325WICD: Travel Writing

This course will enable students to write newspaper, magazine and online articles about specific destinations that inform the reader about the culture, history and landscape of a place. This class will not only focus on broader issues like research methods, tone and market appropriateness but also micro-techniques regarding word choice and sentence structure. Students will produce a number of articles of varying styles, including travelogues, travel features, adventure stories and guidebook entries as well as read fine examples of each type of writing. Like most professional travel writers, the student will begin by seeking out inexpensive, close-to-home destinations that might appeal to a broader audience.

Prerequisites: WRI 214 or permission of the instructor.

WRI 326: Advanced Desktop Publishing: Writing and Designing Documents

In this advanced course, students will consider aspects of document composition both content and design. Assignments will emphasize promotional copy writing as well as report writing.

Prerequisites: ENG 23 or ENG 24 or ENG 25 and WRI 226 or permission of the instructor

WRI 333: Digital Rhetoric and Writing

This course focuses on honing the analysis and production of contemporary digital texts by extending longstanding academic conceptions rooted in the printed word alone. Specifically, the course examines how emerging areas within Rhetoric and Composition such as visual rhetoric, digital writing, and multimodal style are vital in cultivating sophisticated, responsive methods of analysis and production in a variety of online texts. Students will familiarize themselves with issues surrounding the creation, revision, and deployment of digital texts to better understand the complex rhetorics involved when arranging words, images, sounds, coding languages, available designs, fonts, colors, and spaces to make new kinds of 21st century texts and arguments.

Prerequisites: ENG23, ENG24 or ENG25

WRI 338: Personal PR: Marketing the Writer

This course will teach self-marketing strategies for professionals hoping to enter the workplace as full-time or freelance writers. Students will create professional identities for themselves in an online environment. A keystone project of the course will be to design a professional, online portfolio of work. This course will also require students to create a blog about a professional topic with the larger goal of positioning themselves as contributing members of online professional communities.

This is an elective course for all undergraduate Professional Writing majors.

Prerequisites: ENG 23; and at least 27 credits of WRI credits

WRI 339: New Media, Story, Change

This course investigates the crucial role that story plays in creating impactful campaigns within new and emerging media environments. Particular attention will be paid to the ways in which story continues to be one of the most important rhetorical tools in community and social movements seeking change. Readings will draw from a wide range of disciplines including rhetoric, literacy studies, marketing, public relations, communication studies, social media theory, cognitive psychology, and social movement studies.

Prerequisites: ENG23, ENG24 or ENG25

WRI 340CM: Screenwriting I

This course will offer an introduction to the art and craft of screenwriting and will prepare students to write screenplays for motion pictures or television that meet industry standards. The class will include intensive writing, readings, script analyses, and critiques. Students will complete assignments in story, structure, character, and script development. In addition, students will be introduced to the business of being a screenwriter and a motion picture industry professional today. For the term project, students will complete a short narrative screenplay.

Prerequisites: ENG23, ENG24 or ENG25

WRI 342: Screenwriting: Creating a Narrative Web Series

This course will offer an introduction to creating and writing the short-form episodic Internet TV series and will give students pragmatic tools used by screenwriters working in this burgeoning field of the digital media industry today. Class topics will include the series concept, character and story development, collaborative writing skills, and production design. Lectures and screenings will provide a background in the history and aesthetics of serial media projects, short-form video, and episodic drama. Upon completion of the course, students will have created a web series, written a pilot script and two subsequent scripts, and employed a screenwriter's considerations in devising a pre-production strategy. In addition, they will be introduced to the business of promoting a narrative web series designed for distribution over the Internet.

Prerequisites: ENG23, ENG24 or ENG25

WRI 345: Rhetoric, Democracy, Advocacy

The connection between rhetoric and democracy is an old one dating back to the origins of both concepts in Western traditions. Simply put rhetoric the skilled use of argument and persuasive discourse and democracy were seen as ways to replace violence as the primary means of governing and maintaining social order. However, the connections between democracy and rhetoric may not be immediately apparent indeed the two may appear to be in opposition in contemporary society. This course argues that the intimate connections between rhetoric and democracy are critical to retain and reclaim for the health of democratic society and culture. In the era of globalization and digital media these connections are even more important. A healthy democracy requires citizen advocates who are skilled in the analysis of public discourse as well as in the production of persuasive texts.

Prerequisites: ENG23, ENG24 or ENG25

WRI 347: Activists Writing Media: Composing Democratic Futures

The early twenty-first century has seen an explosion in the development, re-purposing, and critical use of new media by political activists. Unlike theoretical debates regarding the relative merits of new media compared to more traditional media or the vigorous business interest in “web 2.0” for its marketing possibilities, activists have approached new media in a rhetorical fashion. For activists, new media are part of the “available means” with which political organizing and campaigning take place. This course explores the multiple and complex ways in which activists have made use of and rewritten what counts as media, who counts as an authorized writer, and even what counts as writing. The course will investigate examples of activist campaigns, emergent theories of literacy, and the role of literacy training for the development of activists and how this is often at odds with the literacy instruction students receive in secondary and post-secondary schooling.

Prerequisites: ENG23, ENG24 or ENG25

WRI 350: Breaking News: Consuming, Reporting and Writing

This course provides undergraduate students with a more detailed study in the reporting and writing about breaking news, planned and unplanned events that happen and develop quickly in our communities every day. Students will engage with, analyze and respond to breaking stories that develop around them - locally, nationally and internationally - monitoring social media, websites, radio, TV outlets and print news sources. Students will also work in their communities, reporting on and writing about breaking news (small and large, planned and unplanned) as it happens around them. They will report and write short news stories using social media, online and print platforms. There will also be the opportunity to post photographs, sound clips and short video of the news they cover.

Prerequisites: WRI 211

WRI 370: Seminar: Selected Topics in Professional Writing

A course offering students the opportunity to study in depth a topic in the practice, theory, or history of the print media not covered in the regular curriculum. Students may register for this course more than once - up to a maximum of six semester hours of credit - so long as they do not repeat the same topic. However, they may take no more than three hours of credit under this rubric in any one semester.

Prerequisites: Completion of any four courses in the Prerequisite Core and permission of the instructor and the department chairperson.

WRI 371: Independent Study in Professional Writing

A course offering the individual student an opportunity to study in depth a topic in the practice, theory, or history of written communications not covered in the regular curriculum. A student may register for this course more than once - up to a maximum of six semester hours of credit - so long as he or she does not repeat the same topic. However, a student may take no more than three hours of credit under this rubric in any one semester.

Prerequisites: Completion of any four courses in the Prerequisite Core and permission of the instructor and the department chairperson.

WRI 380: Professional Seminar

This course gathers professional writing majors to consider the function of an internship in the development of their careers, the relationship between finding employment, and the responsibilities of the professional writer in the working world, including mastery of varied writing styles and response to organizational hierarchies. Students must schedule the first three or more credits or WRI 390 Internship in Professional Writing concurrent with WRI 380 Professional Seminar.

Prerequisites: 2.5 or better in the prerequisite core, "C" or better in ENG 230 Advanced Composition, completion of two WRI 300-level courses.

WRI 390: Writing Internship

Supervised, practical work experience writing for a newspaper, magazine, or organizational periodical. This internship will be available to students interested in pursuing a writing career. The three-credit internship may be taken twice for credit. The six-credit internship may be taken once for credit.

WRI 400: Creative Writing: Theory and Practice

This is a graduate level writing course which will focus on the production of texts of poetry, short fiction, drama and multi-genre forms of creative writing. Using the works of contemporary writers in these genres as models, students will explore various writing styles consistent with the practice of contemporary writing. Reading assignments will focus on technique and stylistic considerations. Writing assignments will focus on allowing each student to understand his/her own creative process in the development of a unique voice as he/she works toward producing an acceptable body of original work. Using models from various texts, students will be encouraged to develop their own prompts and methods of generating writing topics. This course may be appropriate for the undergraduate students who have taken all the undergraduate creative writing courses and are developing a portfolio of writing for admission to a graduate writing program. Prerequisites: BA English and Writing Minor only

WRI 410WI: Arts and Entertainment Writing

Students enrolled in Arts and Entertainment Writing both study and practice the strategies of reviewing artistic performances and related cultural subjects for the general press. Students will learn the basic methodologies of analysis, interpretation and evaluation of artistic offerings. Prerequisites: ENG 023, ENG 025 or equivalent, and WRI 208; or permission of the instructor and department

WRI 430: Rhetorical Traditions and Contemporary Renditions

This course studies the histories of rhetoric as well as contemporary intersections and applications across disciplines. Depending on the particular interests of the professor, one or more specific area(s) such as media, popular culture, sciences, feminisms and gender studies, composition studies, literary theories, literacies, global issues, pedagogy, arts, and political discourse will be chosen for a more detailed study. Critical to the course are the writing assignments that allow students to examine issues in more depth and explore alternative rhetorical stances and situations.

Psychology**PSY 11: General Psychology**

An introduction to the psychological bases of behavior in motivation, learning, memory, development, personality, perception, abnormal behavior, psychotherapy, attitude change, and group behavior.

PSY 105: Contemporary Developments and Careers in Psychological Science

This seminar-style course serves as an in-depth examination of the current nature of psychology as a discipline, a scholarly pursuit, and as a potential area for the focus of a career. An emphasis will be placed on conveying an understanding of the processes that psychologists have used to expand and develop understanding within the domain of psychology, and how these are changing. This will include an examination of (1) critical thinking, (2) research methodology, and (3) current attempts to strengthen the credibility of psychological science by, for example, requiring research projects to be pre-registered, and requiring data to be made publicly available. Within this context, this course will also equip students with conceptual tools that will help them meaningfully address the personal questions of (1) whether psychology is the right field of concentration (major) for them as an undergraduate and (2) whether a career in the field of psychology could eventually be a fulfilling career choice after graduation. In this connection, the possibilities and practical aspects of launching oneself on a course of graduate training within psychology and/or on career path within psychology will be reviewed. If a student elects to take this course, then it would be best to take it immediately after having had general psychology or upon transferring into the major.

Prerequisites: PSY 11 with a grade of "C" or higher and a declared Psychology major.

PSY 110: Child Psychology

This course deals with the organization of psychological processes within the individual as he/she develops from conception to adolescence. It will focus on the physical, social, cognitive, and emotional aspects of child development as well as techniques of child study, theories of learning, genetics, and individual differences.

Prerequisites: PSY 11. Students may not exceed 6 credits to be used toward graduation from the following group: PSY110, 120,125

PSY 120: Adolescent Psychology

A study of the interacting physical, social, and psychological characteristics of the adolescent stages of human development. Special attention will be given to means that parents and professionals might employ to facilitate positive growth and development of the adolescent.

Prerequisites: PSY 11. Students may not exceed 6 credits to be used toward graduation from the following group: PSY110, 120,125

PSY 125: Life Span Development

This course examines human development across the life span from infancy to old age. The emphasis will be on physical, cognitive, social and personality development. Normal development will be stressed but aspects of abnormal functioning will also be considered.

Prerequisites: PSY 11. Students may not exceed 6 credits to be used toward graduation from the following group: PSY110, 120,125

PSY 140: Educational Psychology

The focus of this course is the study of the human learning process, with an emphasis on the application of the principles of psychology to the problems of learning and teaching. The social, cultural, and political contexts within which the educational system is embedded is examined. Special emphasis is given to teacher effectiveness and to the procedures involved in facilitating learning, both at the elementary and secondary levels. Prerequisites: PSY 11

PSY 160CD: Human Exceptionalities

The course is designed to give a functional understanding of the various types of exceptional or atypical individuals. Attention is given to the psychological problems arising out of the interaction of exceptional children and the environment. Individuals with physical, mental, neurological, sensory, and behavioral exceptionalities are studied. Prerequisites: PSY 11

PSY 200QL: Statistics for the Social and Behavioral Sciences

The purpose of this course is to introduce the student to the concepts of descriptive and inferential statistics. The results of any research should be summarized by appropriate descriptive statistics such as central tendency, variability, and the shape of the distribution. Relationships will be studied using correlation, regression, and chi-square. Research which involves sampling will be analyzed by appropriate inferential statistics such as t-tests and ANOVA. Sampling error, hypothesis testing, significance levels, Type I Error, Type II Error, and power will be discussed. In addition, the student will be introduced to SPSS for Windows, Microsoft Excel, and/or other appropriate software for performing descriptive and inferential statistical procedures presented throughout the course. No students (Sociology or non-Sociology majors) may receive credit for both POL/PSY/SOC 200 and SOC 201 due to substantial overlap. Prerequisites: PSY 011 (Psychology majors need a 'C' or better) and MAT 017 or higher (except 040 Geometry, and 045 Women in Mathematics). Students that have passed SOC 201 with a grade of "D" or better may not take this course.

PSY 201: Computer Techniques For Behavior Sciences

This course provides experience in the use of computers in the research process with a focus on data organization, analysis, interpretation, and presentation. The Statistical Package for Social Sciences will be covered in depth. Topics to be explored at an introductory level include interfacing to operating systems (DOS, Windows, UNIX); spreadsheet, graphing, and database applications; and the Internet. Prerequisites: PSY 200

PSY 202: Psychology of Personality

A study of the methods and concepts used in studying personality. Consideration is given to various theories as well as the experimental and clinical findings on personality. Prerequisites: PSY 11

PSY 205CD: Psychology of the Black Experience

This course is designed to provide students with an in-depth examination of the factors that have historically, culturally, politically, educationally, and scientifically shaped the consciousness of black Americans. Specific attention will be paid to how these factors have explicitly and implicitly influenced the self-concept development of black Americans and how such self-awareness influences their interactions among themselves as well as other individuals from different racial and cultural groups.

Prerequisites: PSY 11

PSY 208: Psychology of Gender

This course is designed to introduce the psychological study of gender through an overview of theory and research on both the similarities and differences between men and women. Topics to be covered include (but are not limited to) the role of gender in development, health and wellness, education and the workplace, culture and media.

Prerequisites: PSY 11

PSY 215CD: Psychology of Prejudice

Prejudice will be defined and its origins, benefits to the prejudger and its implications for our society will be discussed. Antecedents of prejudice and means of reducing prejudice will be identified. Prejudice against specific groups of individuals will be explored.

Prerequisites: PSY 11

PSY 217: Forensic Psychology

An overview of the area of psychology and law. Topics covered will include psychological aspects of criminal behavior, the insanity defense, competency, commitment of the mentally ill, scientific jury selection and professional issues such as the duty to warn.

Prerequisites: PSY 11

PSY 220: Industrial/Organizational Psychology

The interactive relationships between organizations and the individual will be analyzed. Psychological principles involved in personnel selection, training, performance appraisal, motivation, group processes, leadership, organizational dynamics, and the work environment are considered. A minor focus on career planning.

Prerequisites: PSY 11

PSY 232: Psychology of Death and Dying

This course is designed to provide an overview of the psychological aspects of death and dying, including an understanding of the theories and research about different developmental aspects of death and dying, issues of coping with and preparation for death and dying and the concepts of normal versus abnormal grieving.

Prerequisites: PSY 11 or permission of the instructor.

PSY 240: Social Psychology

The behavior of the individual in society, the actions of humans in relation to other persons, the development of social goals, and social behavior. Prejudice and its effects on the individual as well as attitude formation and change will be discussed.

Prerequisites: PSY 11

PSY 242: Performance Psychology

This course investigates the psychological factors associated with skilled performance and how these factors can be applied to understand elite performance in various areas such as sport, music, and surgery.

Prerequisites: PSY 011 or permission of the instructor.

PSY 250: Abnormal Psychology

This course reviews the history, causes, symptoms, and treatment of the various types of abnormal behaviors. Special emphasis is placed on neurosis, psychosis, and psychosomatic disorders as well as organic bases of psychological functioning. Each diagnostic category is considered in light of traditional as well as current theory with special attention given to current research in the field.

Prerequisites: PSY 11

PSY 255: Environmental Psychology

The study of individual and group behavior as it relates to natural and human-made environments. Emphasis is placed on aspects of the environment such as space, physical arrangements, crowding, pollution, etc. as they relate to perception, development, and adjustment. Research methods for studying aspects of the environment are an integral part of the course.

Prerequisites: PSY 11

PSY 260: Psychology of Human Communication

Cognitive, emotive, and perceptual development and processes of communicative behavior. Included will be an overview of applicable theories and research, the influence of psychological, situational, and personality factors, and the interactive active processes of verbal and non-verbal communication.

Prerequisites: PSY 11

PSY 265: Human Sexual Behavior

An overview of the current scientific knowledge and research methods concerning human sexuality. The influence of learning, feelings, motivations, interactions, subtleties, problems and therapies of sexual behavior will be discussed.

PSY 270CTWI: Experimental Psychology

Experimental Psychology deals with various aspects of research in the field of psychology. Experience will be provided with the design of research, the collection of data, the analysis of data, and the presentation of results. An individual research project utilizing the theories and methods is required.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of "C" or better.

PSY 280: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 281: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 282: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 283: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 284: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 285: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 286: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 287: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 288: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 289: Selected Topics in Psychology

Topics in the fields of psychology that are of current interest will be selected for in-depth study. The course content will normally change each time the course is offered. The course may be repeated for credit provided that the same topic is not repeated.

Prerequisites: PSY 11

PSY 290CD: Culture and Personality

The course is designed as an interdisciplinary survey of the field of culture and personality. The key problem involves investigating the concepts of culture and personality and the nature of the relationship between them. Also may be taken as PSY 290.

Prerequisites: ANT 10 or PSY 11

PSY 293: Evolutionary Psychology

Evolutionary psychology is the application of evolutionary theory to the study of behavior. The consideration of selection pressures faced by humans enables the identification of behavioral mechanisms that promote adaptability, survival and reproduction. Key topics may include: mating strategies, kinship, aggression, cognitive mechanisms, and how evolutionary theory can provide a unified approach to understanding the different branches of psychology.

Prerequisites: PSY 11

PSY 305: Practicum in Psychology

This is a supervised practicum in an approved research or applied setting that may be on or off-campus. Experiences might include, but are not limited to, working as a research assistant in a laboratory or other facility, volunteer work for a service organization or government agency, or work with a school district. This practicum is not designed for activities related to the provision of clinical/counseling or I/O services to agencies and businesses. Early in the semester prior to the practicum, the student, with the help of the faculty supervisor, must contact the site and develop a proposal outlining the work location and the anticipated practicum activities. The proposal must be approved before the student can register for the course.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” of better.

PSY 310CTQL: Principles of Psychological Measurement

An introduction to the theory of measurement of human behavior, its application to test and survey design and the application and evaluation of tests and survey tools in practice clinical, industrial, educational, and research situations.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” of better.

PSY 311: Psychology of Learning, Motivation and Emotion

A study of the basic processes in the areas of learning, motivation, and emotion as viewed through the major theoretical systems and empirical research.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” of better.

PSY 312: Sensation and Perception

An overview of visual and auditory perception combining the empirical and phenomenal approaches. Sensory and perceptual bases of color, form, space, sound, and music are covered.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” of better.

PSY 325: Physiological Psychology

This course is designed to explore the relationship between physiological functions and their behavioral manifestations. The sensory systems, the central and peripheral nervous systems, and the glands will be covered as they affect motivation, emotion, learning and memory, and psychopathology. Normal as well as abnormal functions are examined.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” of better.

PSY 331: Health Psychology: Biopsychosocial Factors in Health and Illness

Health psychology is the scientific study of behaviors that relate to health enhancement, disease prevention and management, and rehabilitation. This course will examine the biological, psychological, and social factors in health and illness. The course is organized into three parts: foundations of health psychology, biopsychosocial factors in health, and biopsychosocial factors in illness. Health psychology is both an applied field and a basic research field. Accordingly, scientific accomplishments are examined as they impact on clinical application.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” or better.

PSY 333: The Psychology of Leadership in Organizations

The primary focus of this course is on managerial leadership. The course will present a broad survey of theory and research on leadership in formal organizations, with special emphasis on leader effectiveness. Conceptual and methodological issues pertaining to leader effectiveness will be explored from four major research approaches: (1) the power-influence approach; (2) the trait approach; (3) the behavior approach; and (4) the situation approach. An integrating model of leadership will also be examined.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” or better.

PSY 335: Comparative Psychology

Prerequisites: PSY 11 with a "C" or better, PSY 200 or MAT 140 or BUS 120 with a “C” or better, and PSY 220

PSY 336CD: Diversity In Organizations

Organizations have been continuing to diversify their workforces by employing people of various genders, ethnicities, national cultures, ages, and abilities. This course will examine a wide range of workplace issues as they related to diversity, starting with understanding the advantages of a diverse workforce, individual and organizational challenges experienced with regard to diversity, and best practices in how to maintain a diverse workforce.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” or better.

PSY 340: Cognitive Psychology

Cognitive psychology is the scientific study of mental representations and processes. Cognitive psychology, for example, focuses on how people take in, mentally represent, and store information; how they perceive and process that information; and how these processes affect everyday behavior. Its diverse topics include attention, pattern recognition, learning, memory, language processing, problem solving, and reasoning. The discoveries of cognitive psychologists are used in a variety of disciplines, including applied psychology, psychiatry, engineering, computer science, and linguistics. The goal of this course is to provide a foundation in many of the major areas within cognitive psychology.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” or better.

PSY 350: Personnel Psychology

The focus of this course is an examination of individual work behavior in the context of organizations. Personnel psychology (also referred to as industrial psychology) is a sub-field within the broader applied discipline of industrial and organizational psychology (Casco, 1998). Personnel psychology overlaps with human resources management (HRM). Like industrial and organizational psychology, personnel psychology is based on the "Scientist-Practitioner" model with emphasis on principles of individual, group and organizational behavior through basic research and the application of scientific knowledge to the solution of human problems at work. Personnel psychology has its origins in the first half of the twentieth century where basic psychological theory and principles were applied to assist in the selection and staffing of personnel during World War I (Cooper and Locke, 2000). Following the War, psychologists continued to apply psychological theory and principles to solve real world problems in industry, commerce, and the public sector. Since its early roots in personnel selection, personnel psychology has extended beyond recruiting and hiring processes. As such, in addition to the traditional area of personnel selection, this course will examine such topics as applied psychometrics, job analysis and criteria development, testing, performance management systems, training and development and HRM.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of “C” or better.

PSY 351: Organizational Psychology

This course examines the science and practice of organizational psychology. Organizational psychology is a sub-area of the broader field of industrial/organizational (I/O) psychology. While industrial or personal psychology (PSY 350) concentrates on topics associated with the management of human resources in organizations (i.e. employment law, criterion development, recruitment, test validation, selection, performance management, training, human resource planning), organizational psychology examines individual and group behavior in formal organizations (i.e., socialization, motivation, job attitudes, occupational stress, leadership, group performance, organizational culture).

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of "C" or better.

PSY 355: Organization Development and Change

This course will introduce the student to the basic theory and practice of Organization Development (OD). OD, a subfield of Industrial/Organizational Psychology, can be defined as a system-wide application of behavioral knowledge and practice to the planned development and reinforcement of organizational strategies, structures, and processes for improving an organization's effectiveness (Cummings and Worley, 2001). The course will focus on six major OD processes and interventions: (1) the process of how OD is applied to organizations; (2) human process interventions aimed at the social processes occurring within organizations; (3) technostructural interventions aimed at organization structure and at better integrating people and technology; (4) human resource management interventions that are directed at integrating people into the organization; (5) strategic interventions that focus on organizing the firm's resources to gain a competitive advantage in the environment; and (6) evaluating OD interventions and stabilizing them as a permanent part of the organizational functioning.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of "C" or better.

PSY 360: Introduction to Clinical Psychology

This course is a survey of the field of Clinical Psychology, its problems, methods, and areas of application. The student will be presented with rudimentary background knowledge in testing techniques, interviewing, and psychotherapy.

Prerequisites: PSY 11 with a "C" or better, PSY 200 or MAT 140 or BUS 120 with a "C" or better and PSY 250

PSY 362: Internship in Industrial/Organizational Psychology

This is an academically based, supervised work experience designed to apply theory to practice. Students will have the opportunity to interact with professionals in their area of interest, develop the communication skills needed in their field, and begin to build a strong resume and references for employment and/or graduate study. This experience will provide not only career focus but also increased self-confidence and maturity.

Prerequisites: PSY 11 with a "C" or better, PSY 200 or MAT 140 or BUS 120 with a "C" or better, and PSY 220

PSY 363: Clinical Internship

One semester supervised internship at agencies and organizations offering clinical/counseling services. Students spend either one or two days a week at the internship site and have the opportunity to observe and/or provide psychometric services, interviews, counseling, and other clinical services under supervision. In addition, students participate in a weekly meeting at the university during which they present their fieldwork experiences and discuss the relationship between clinical practice and theory.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of "C" of better.

PSY 365: Advanced Research Design

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of "C" of better.

PSY 370: Selected Research Topics in Psychology

This course is designed to allow students to do independent research under the direction of a faculty member. The topic must be accepted by the department member with whom the student will work.

Prerequisites: PSY 011 with a C or better, PSY 200 or MAT 140 or BUS 120 with a "C" or better, and PSY 270. May be repeated for credit.

PSY 375: Psychotherapy: Theory, Research and Practice

This course will examine the major approaches to psychotherapy through a critical review of (a) the epistemological and theoretical bases of psychotherapeutic practice, (b) evidence from outcome and process studies conducted in analogue as well as field settings, and (c) specific techniques employed in the treatment of various psychological problems.

Prerequisites: PSY 011 with a C or better, PSY 200 or MAT 140 or BUS 120 with a "C" or better, PSY 202 or PSY 250, or permission of the instructor.

PSY 379: History and Systems of Psychology

This course is designed to give the student an historical introduction to the various points of view in contemporary theories of behavior.

Prerequisites: PSY 11 & PSY 200 or MAT 140 or BUS 120, with a grade of "C" of better.

PSY 380WI: Senior Seminar in Psychology

This course, required of all liberal arts students majoring in psychology, provides an opportunity for senior psychology majors to critically examine selected significant issues and problems within the discipline of psychology. Through critical reading, discussion and expository writing students are encouraged to integrate and synthesize prior training in psychology as they critically and creatively examine important issues and problems in the field. This course should be taken during the school year of expected graduation.

Required of all Psychology majors. ENROLLMENT: Limited to twenty students.

Prerequisites: PSY 011 with a C or better, PSY 200 or MAT 140 or BUS 120 with a “C” or better, Senior standing or permission of the instructor.

PSY 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

PSY 429: Behavior Modification

A survey of procedures used for behavior modification and behavior therapy. Practical application of these procedures to various populations will be stressed.

Prerequisites: Graduate student status, or junior/senior undergraduate with a QPA 2.9 or higher, PSY 011 and PSY 200, MAT 140, or BUS 120, with a “C” or better or permission of the instructor.

PSY 432: Human Neuropsychology

This course will consider aspects of the relationship between brain and behavior in the adult and the developing human through the critical examination of evidence derived from (1) the study of the effects of focal lesions of the cerebral cortex, (2) the effect of forebrain commissurotomy and (3) the neuropsychological investigation of subjects without neurological impairment. Relevant experimental literature concerned with animals other than humans will also be considered.

Prerequisites: Graduate student status, or junior/senior undergraduate with a QPA 2.9 or higher, PSY 011 and PSY 200 with a “C” or better or permission of the instructor.

PSY 435: Psychology of Interviewing

Prerequisites: PSY 11 with a “C” or better, PSY 200 or MAT 140 or BUS 120 with a “C” or better, and PSY 220

Secondary Education

SEU 15: Secondary Education First Year Seminar

College of Education: Secondary Education First Year Seminar introduces Secondary Education freshmen, organized by cohorts according to declared major, to the critical strategies, resources, and responsibilities of a university student and future teacher. The seminar will build the students' foundation knowledge and understanding of what it means to be professional educators. Toward this end, the students enrolled in this course will participate in a number of relevant experiences that facilitate and strengthen their personal appreciation and intellectual understanding of their role as a teacher candidate and Kutztown University and the support available to ensure their success. The course will be required of all entering freshmen. The course will be offered as Pass/Fail.

SEU 210: Secondary School Curriculum

The content and organization of high school curriculum, and of the nature and content of major fields of instruction. Requirements and standards that affect the high school program.

SEU 310: Problems of Secondary Education

Theoretical and practical approaches relevant to current problems in secondary education with attention on the broad spectrum as well as immediate day-to-day situations will be explored. A focused effort has been made to develop a responsive course to prepare the teacher candidates to be effective classroom managers for learners in today's inclusive and diverse classrooms.

Prerequisites: College of Education majors only

SEU 312WICD: Principles of Learning

This is a clinically based course that examines how aspects of learner language, culture, prior knowledge and experience influence the learning process in the school setting. This course will provide a bridge between theories of learning and current practice by placing teaching candidates in a weekly, supervised experience. This course will be taken after the student has achieved teacher candidacy. Teaching candidates will meet for 6 hours each week, in two three-hour blocks. During the first block, candidates will meet at the university with the professor. This will be the theory-based component of the course and coordinates with Categories I and IV of the Principles of Teaching and Learning criteria established by the Pennsylvania Department of Education. The second block will take place in the school setting (SEU 313 Principles of Learning Clinical Lab). This course must be taken with SEU 313 Principles of Learning Clinical Lab. This course is a prerequisite for SEU 342 Principles of Teaching.

Prerequisites: College of Education majors only

SEU 313: Principles of Learning Clinical Lab

This is the clinical part (second block) of the SEU 312 Principles of Learning course. The entire class will be assigned to a school where pairs of teaching candidates will be assigned to a classroom. Schools will be recruited based on their opportunities for diverse experiences and size. The Kutztown faculty member will accompany teaching candidates to the placement and will supervise while the candidates are in the building. This course must be taken with SEU 312 Principles of Learning. It is a prerequisite for SEU 342 Principles of Teaching.

Prerequisites: College of Education majors only

SEU 320: Appraisal and Evaluation in Secondary Education

This course emphasizes the value, use and interpretation of standardized group tests for various purposes in the public schools. Training is given in the administration and evaluation of group intelligence, achievement, and aptitude tests and personality and interest inventories. The organization and operation of school testing programs will be analyzed. Teacher constructed evaluative criteria will be required.

Prerequisites: College of Education majors only

SEU 321WI: Methods of Teaching Secondary School Subject: Communication

Methods, techniques and evaluative instruments applicable to the teaching of secondary school subjects. The course is basically the responsibility of a coordinator and a "team" of teachers, each of whom is a specialist in the subject matter fields of Communication, Social Studies, Foreign Languages, Science, and Mathematics. Laboratory experiences include classroom observation, micro-teaching, films, lectures by resource persons, construction of a teaching unit, etc. Summer course not available to undergraduates.

Prerequisites: SEU 342

SEU 322WI: Methods of Teaching Secondary School Subject: Foreign Language

Methods, techniques and evaluative instruments applicable to the teaching of secondary school subjects. The course is basically the responsibility of a coordinator and a "team" of teachers, each of whom is a specialist in the subject matter fields of Communication, Social Studies, Foreign Languages, Science, and Mathematics. Laboratory experiences include classroom observation, micro-teaching, films, lectures by resource persons, construction of a teaching unit, etc. Summer course not available to undergraduates.

Prerequisites: SEU 342

SEU 323WI: Methods of Teaching Secondary School Subject: Mathematics

Methods, techniques and evaluative instruments applicable to the teaching of secondary school subjects. The course is basically the responsibility of a coordinator and a "team" of teachers, each of whom is a specialist in the subject matter fields of Communication, Social Studies, Foreign Languages, Science, and Mathematics. Laboratory experiences include classroom observation, micro-teaching, films, lectures by resource persons, construction of a teaching unit, etc. Summer course not available to undergraduates.

Prerequisites: SEU 342

SEU 324: Methods of Teaching Secondary School Subject: Science

Methods, techniques and evaluative instruments applicable to the teaching of secondary school subjects. The course is basically the responsibility of a coordinator and a "team" of teachers, each of whom is a specialist in the subject matter fields of Communication, Social Studies, Foreign Languages, Science, and Mathematics. Laboratory experiences include classroom observation, micro-teaching, films, lectures by resource persons, construction of a teaching unit, etc. Summer course not available to undergraduates. Prerequisites: SEU 342

SEU 325WI: Methods of Teaching Secondary School Subject: Social Studies

Methods, techniques and evaluative instruments applicable to the teaching of secondary school subjects. The course is basically the responsibility of a coordinator and a "team" of teachers, each of whom is a specialist in the subject matter fields of Communication, Social Studies, Foreign Languages, Science, and Mathematics. Laboratory experiences include classroom observation, micro-teaching, films, lectures by resource persons, construction of a teaching unit, etc. Summer course not available to undergraduates. Prerequisites: SEU 342

SEU 331: Practicum: Communication

SEU 331 provides a practicum, concurrent with the methods class. This practicum provides an opportunity for the application of theory presented in the methods class to be applied to middle and high school classroom. (1 s.h., 2 c.h.)

SEU 332: Practicum: Modern Languages

SEU 332 provides a practicum, concurrent with the methods class. This practicum provides an opportunity for the application of theory presented in the methods class to be applied to middle and high school classroom. (1 s.h., 2 c.h.)

SEU 333: Practicum: Mathematics

SEU 333 provides a practicum, concurrent with the methods class. This practicum provides an opportunity for the application of theory presented in the methods class to be applied to middle and high school classroom. (1 s.h., 2 c.h.)

SEU 334: Practicum: Science

SEU 334 provides a practicum, concurrent with the methods class. This practicum provides an opportunity for the application of theory presented in the methods class to be applied to middle and high school classroom. (1 s.h., 2 c.h.)

SEU 335: Practicum: Social Studies

SEU 335 provides a practicum, concurrent with the methods class. This practicum provides an opportunity for the application of theory presented in the methods class to be applied to middle and high school classroom. (1 s.h., 2 c.h.)

SEU 340: Teaching Reading in Secondary School Academic Subjects

This course is designed to provide teachers of the content areas with basic strategies for coping with the unique reading demands of their subjects. Emphasis is upon diagnosis, comprehension, vocabulary skills, and study skills. Required of all students majoring in secondary education.

Prerequisites: College of Education majors only

SEU 342WIVL: Principles of Teaching

This course is a clinically based course that provides teaching candidates with a common language to talk about teaching and clear, concrete levels of performance for teaching candidates to use in reflecting upon the work of the classroom teacher. These components of professional practice are based on Praxis III and are aligned with INTASC and the National Board for Professional Teaching Standards. This course will provide a bridge between theories of teaching and current practice by place teaching candidates in a weekly, supervised experience. This course must be taken with SEU 343 Principles of Teaching Clinical Lab.

Prerequisites: SEU 312

SEU 343: Principles of Teaching Clinical Lab

This clinical experience meets the Pennsylvania Department of Education requirements to extend field experiences prior to the student teaching assignment. Teacher candidates will be assigned to a high school in their certification area. This course must be taken with SEU 342 Principles of Teaching.

Prerequisites: College of Education majors only

SEU 380: Independent Study in Secondary Education

Independent Study is based on a student's pursuit of a subject in Secondary Education not covered within regularly offered undergraduate courses. Undergraduate students may schedule this course for one to three credits in a single semester, with no more than six credits for Independent Study overall. Permission of the faculty of the Secondary Education Department is required.

Prerequisites: College of Education majors only

SEU 390: Clinical Experience and Practicum: Secondary I

Both SEU 390 & SEU 391 are segments of a single course which provides two full-time classroom experiences comprising an entire semester. Opportunities are provided for observation and participation in all activities related to teaching on the secondary level. The practicum, concurrent with student teaching, is a clearing house for the selection, organization, and presentation of proposed units, lessons, or activities. In addition, it provides an opportunity for the discussion of problems that arise in the classroom. Students organize units of instruction and present them for evaluation by the group. Juniors are encouraged wherever feasible to participate in the practicum.

Prerequisites: College of Education majors only

SEU 391: Clinical Experience and Practicum: Secondary II

Both SEU 390 & SEU 391 are segments of a single course which provides two full-time classroom experiences comprising an entire semester. Opportunities are provided for observation and participation in all activities related to teaching on the secondary level. The practicum, concurrent with student teaching, is a clearing house for the selection, organization, and presentation of proposed units, lessons, or activities. In addition, it provides an opportunity for the discussion of problems that arise in the classroom. Students organize units of instruction and present them for evaluation by the group. Juniors are encouraged wherever feasible to participate in the practicum.
Prerequisites: College of Education majors only

SEU 410WI: Science Instructional Methods for Middle & HS

This course is a graduate level instructional methodology course designed to meet the needs of the graduate and post-baccalaureate student seeking certification in middle level and high school level science. It is a comprehensive science methodology course for students in the College of Education. The basic philosophy of this course is to adapt constructivist methodology to science education. The infusion of Internet technology coupled with the National and Pennsylvania Standards in Science Education will call upon students to formulate instructional strategies that are both relevant and grade level appropriate. This graduate course will meet PA State CETP guidelines.
Prerequisites: SEU 342

SEU 420: Education Theory and Practice

This course is designed for post-baccalaureate teaching candidates who have already passed the Praxis II in their content area. This course will provide the preservice middle and high school teachers with strategies necessary to promote effective, creative, and scholarly middle and high school instruction. Major emphasis will be placed on providing the necessary background to develop courses, instructional units, and lessons. Instructional activities will be aimed at promoting the subject literacy of their students. Teaching candidates will gain insights into methods of effective communication and interaction with students, utilization of technology for laboratory research and reference, and methods of evaluating student achievement. Process skills as well as content will be strongly emphasized.

Social Media Theory and Strategy

SMS 101: Introduction to Social Media Theory and Strategy

A survey of contemporary theories of social media that focuses on how social media affects individuals, communities, and cultures. Particular attention will be paid to themes such as identity, privacy, access, participatory culture, attention economies, place, and law. Students will be able to evaluate and analyze how social media impacts social, economic, and civic lives.

SMS 224: Social Media Ethics

This course will explore the origins of ethical behavior and actions within the media and will look at both classical and contemporary approaches to ethical decision making and apply them to modern media practices, particularly social media. At the same time, the course will ask whether the media today are acting appropriately as regards ethical practice, and if not, why not. Not only does the course critique media practices but it will also search for suggestions that will most positively affect both the media institutions and the public with which they interact and upon which they rely for their livelihood.

Prerequisites: SMS 101 or COM 212 or WRI 212 or permission of the instructor.

SMS 380: Social Media Theory and Strategy Capstone

This course is designed as the capstone course for Social Media Theory and Strategy majors, aimed at providing students with the opportunity to integrate the knowledge and skills they have acquired within the major. It will also provide experiences for students to exhibit competent communication and/or technical skills learned during their program of study in order to prepare for a career in social media.

Prerequisites: Earned Sr. status, and SMS101, WRI 250, COM 305, ENG/COM 314 and MKT 351, or permission of the instructor.

SMS 390: Social Media Internship

Supervised professional field experience related to social media theory and strategy.

Internship tasks and responsibilities will vary with participating organizations. This internship will be available to students interested in pursuing careers in social media.

Prerequisites: Earned Sr. status, and SMS101, WRI 250, COM 305, ENG/COM 314 and MKT 351 and a minimum of 2.0 cumulative GPA, or permission of the instructor.

Social Work**SWK 100CDCT: Introduction to Social Work and Social Welfare**

This course provides an overview of the development of social welfare and social work practice. The historical development of social welfare is related to the emergence and the development of the social work profession. The course introduces knowledge, values, and skills as the common base of generalist social work practice. The problem solving approach to social work practice with multi-level system is introduced. Required of all social work majors.

SWK 130CDCT: Poverty and Social Welfare

This course defines poverty and examines groups in poverty in the United States. It traces poverty in America from a historical perspective, reviews major social welfare programs designed to respond to poverty and examines their effectiveness. Special populations and groups at risk encountered by social workers in practice will be examined with emphasis on viewing individual, family, and community functioning from a person-in-environment perspective. Major oppressive institutions and their effects on people in poverty are examined. Social work methods for social change to prevent, alleviate and resolve poverty are introduced.

SWK 160CD: Human Behavior and Social Environment

This course teaches students to evaluate and apply biological, psychological, and social theories to client's situation with a particular emphasis on the examination of the effects of the interplay of biological, psychological, social, economical and cultural elements of the social environment on human functioning. The impact of social and economic forces on the individual's behavior are presented. Systems promoting or deterring people in the attainment and maintenance of optimal health and well-being are explored with particular attention on the effects of these systems on ethnic and racial minorities, sexual minorities, women, and persons with disability. Required of all social work majors. Prerequisites: SWK100 and SWK130 or by permission of the instructor.

SWK 200CMWI: The Professional Context of Social Work Practice

The course builds upon and reinforces the foundation of generalist social work knowledge, social work values, principles, ethics, attitudes, and skills introduced in the Introduction to Social Work Course. Students study the Code of Ethics of the National Association of Social Workers and practice ethical decision making. The course reinforces the skills necessary to implement the phases of the problem-solving approach to social work practice with multi-level client systems (individuals, groups, families, communities, organizations). Students will be required to participate in a 30-hour volunteer field/laboratory experience. Open only to Social Work majors and minors. A grade of "C" or better is required in this course to enter SWK 250. Prerequisites: SWK160 or by permission of the instructor; Open to Social Work Majors and Minors

SWK 250: Social Work With Individuals: Practice I

The Social Work Practice with Individuals course starts a series of social work practice courses in which the skills of the problem solving approach are practiced with multi-level client systems (individual, groups, families, communities, and organizations). In this course students practice relationship building, interviewing techniques, case recording and further develop their problem-solving skills which were reinforced in the Professional Context of Social Work Practice Course. Students will be expected to participate in a laboratory experience involving a helping relationship project. Open to majors only. Required of all social work majors. A grade of "C" or better is required in this course to enter SWK 265.

Prerequisites: SWK200;ANT010; BIO010; BIO130 or BIO140;PSY125; ENG023; PHI010 or PHI020 or PHI030; SOC010; or by permission of the instructor ; Open to Social Work majors only

SWK 255WICD: Social Welfare Policy

The course defines social welfare policy in the context of social policy and examines its philosophical and historical roots. The policy making process is examined and the major actors associated with it are identified. A significant part of the course will be spent in the study of major welfare policies and the groups affected by them. Strategies and involvement of people for policy change are examined.

Prerequisites: SWK 100, SWK 130, POL 10 and or Permission of the Instructor

SWK 265: Social Work Practice With Groups and Families: Practice II

This course is the second in the series of social work practice courses in which the skills of the problem solving approach are practiced with multi-level client systems (individual, groups, families, communities, organizations). The course focuses on concepts, methods, and skills in social work practice with groups and families. Family development and dynamics will be studied and social work intervention techniques with emphasis on problem solving will be examined. Through class discussions, exercises and group projects, students will apply their understanding of group dynamics and family assessment, and demonstrate social work practice skills with groups and families. Required of all social work majors. Open to majors only. A grade of "C" or better is required in this course.

Prerequisites: SWK 250

SWK 280: Social Work Practice With Communities and Organizations: Practice III

This is the third course in a series of social work practice courses. This course reinforces and applies social work knowledge, values, and skills using the problem solving approach and focuses on intervention strategies with communities and organizations. Students practice generalist social work within a systems theory framework. A policy practice emphasis is applied for advocacy and change strategies with agencies and communities. Particular attention will be given to strategies of change with disenfranchised and minority populations. Required of all majors. Open to majors only. A grade of "C" or better in this course is required to enter SWK 381 and SWK 382.

Prerequisites: SWK 250

SWK 285: Essential Skills for Helping People

This is a course for social work majors and minors who wish to practice skills as they are carried out in professional social work practice. Students will engage in Problem-Based Learning, a cooperative learning experience in which the skills introduced in our social work sequence up to SWK 200 Professional Context of Practice, will be reinforced and practiced as students follow a case study from engagement and assessment to termination and evaluation. These skills will include developing empathy, creating professional relationships, active listening, strength-based assessment, self-assessment, policy analysis and advocacy, social work record keeping, practice evaluation, and the use of supervision in practice. Students develop an appreciation for life-long learning by engaging actively in a real social work case study, which provides the vehicle for the hands-on practice of course material. The course will count as an elective in the social work program.

Prerequisites: SWK 200

SWK 286: Social Work and Substance Abuse

This survey course provides students with an introduction to substance abuse. The students will explore current understanding of the prevention of substance abuse/dependence; components of comprehensive substance abuse treatment programs, populations at risk and evidence-based practice. The person-in-environment perspective will be used as an overarching framework for assessment, delivery, and evaluation of services. In addition, students will be introduced to the professional literature available for lifelong learning.

Prerequisites: SWK 160 for SWK majors and minors, or the permission of the instructor.

SWK 290: Social Gerontology and Social Welfare

This course is aimed at analyzing the process of aging from a sociological perspective and studying the resources that our society provides for the over-sixty population through social welfare measures. There will be double pronged emphasis: one placed upon various social problems confronting them in American society; the second emphasis will be on the array of social welfare services available, the social policies implicit in the provision of such services, and the social work practices that enable older persons and their families to secure such services.

Prerequisites: SOC 010 or SWK 100 for non-Social Work majors. Prerequisite for Social Work majors: SWK 100, 250 & SOC 10.

SWK 315: Human Services Administration and Social Policy

This is an analysis of the administrative and public policy processes in social welfare agencies. The course builds upon the foundations presented in Social Welfare Policy and specifically focuses on the unique values and needs of human service agencies.

Prerequisites: SWK 250 and SWK 255

SWK 320: Case Management - an Interdisciplinary Approach

The course will cover principles, theory, and the historical development of case management as an interdisciplinary method of delivering health and human services. Emphasis will be placed on the development of skill in implementing the phases of this method of practice (Assessment, Goal Setting, Case planning, Monitoring progress, and Termination and Evaluation). Appropriate groups of client populations will be identified and issues related to their unique needs in relation to their social environment will be examined.

Prerequisites: SWK 250 or Permission of Instructor

SWK 328: Child Welfare and Social Work Practice

This course introduces the student to the field of Child Welfare and examines both social policy and social work practice concerns. Emphasis will be placed on child protective services, foster care, and adoption. Developmental issues, as well as natural and foster family functioning will be studied. Special social work intervention strategies such as foster and adoptive family assessment, abuse assessment, and child advocacy will be learned.

Prerequisites: SWK 250 or Permission of Instructor

SWK 360CTQL: Methods and Practice of Social Work Research

The course reviews the classic social and behavioral research process and develops skills in formulating research problem(s) and questions, conducting a comprehensive literature review, establishing hypotheses, and choosing research designs. Data collection instruments, analysis techniques, and report writing are emphasized. Ethical and moral issues which arise when dealing with human subjects, as well as sensitivity to cultural diversity of the research participants are included. Emphasis is placed on social work practice evaluation techniques, including single-subject as well as experimental and quasi-experimental designs. Computers and information technology for social work practice are introduced. This course must be taken concurrently with SWK 382 or with permission of the instructor.

Prerequisites: POL/PSY/SOC200 or MAT140 or PSY/POL/SOC 200 or MAT 140, or with permission of the instructor.

SWK 370: Selected Topics in Social Work and Social Welfare

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times.

Prerequisites: SWK 250

SWK 371: Selected Topics in Social Work and Social Welfare

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times.

Prerequisites: SWK 250

SWK 372: Selected Topics in Social Work and Social Welfare

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times.

Prerequisites: SWK 250

SWK 373: Selected Topics in Social Work and Social Welfare

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times.

Prerequisites: SWK 250

SWK 374: Selected Topics in Social Work and Social Welfare

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times.

Prerequisites: SWK 250

SWK 375: Selected Topics in Social Work and Social Welfare

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times.

Prerequisites: SWK 250

SWK 376: Selected Topics in Social Work and Social Welfare

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times.

Prerequisites: SWK 250

SWK 377: Selected Topics in Social Work and Social Welfare

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times.

Prerequisites: SWK 250

SWK 378: Selected Topics in Social Work and Social Welfare

This is a course for students of social work who wish to deal with a specific social work topic or system in greater detail than current curricular offerings permit. Topics will depend on needs and interests of eligible students. May be taken a maximum of three (3) times.

Prerequisites: SWK 250

SWK 379: Independent Study

The student must confer and reach agreement with the faculty member who will guide the independent study. The student and the faculty member must agree upon a topic, course content, evaluation procedures, reading list, and amount of credit prior to registration for the course. This material (course content, evaluation procedures, reading list, etc.) must be filed with, and receive the approval of, the faculty of the discipline involved and of the departmental chairperson. May be repeated for credit. Student must have completed 12 clock hours in the major to enroll.

SWK 381: Field Instruction in Social Work I

This is the first of two semesters (total 480 hours) of field instruction in social welfare agency settings which are required under the supervision of a professional social worker. Students apply foundation knowledge, skills, values, and ethics of professional generalist practice. Through supervision, students enhance their awareness of self, develop written and oral communication skills necessary for analysis of professional practice, and apply critical analytic skills for implementing and evaluating agency policies and programs. Students operationalize the unique values, functions and roles of professional social work practice and develop competency in identifying and assessing situations where the relationship of people and their social environment needs to be enhanced or changed. The professional responsibility of advocacy toward change and recognition of the impact of policy and programs on oppressed groups is an integral part of the applied learning. Open only to Social Work majors. Required of all Social Work majors. A grade of "C" or better is required in this course to enter SWK 383. Must be taken concurrently with SWK 382. Offered in fall only.

Prerequisites: SWK 250 and permission of the department. SWK 382 is a co-requisite.

SWK 382CTWI: Professional Seminar in Social Work I

This is the first of two semesters of Professional Seminar in Social Work which are required. The Seminars complement the Field Instruction and provide a structured learning opportunity where students process their practice experiences and integrate the common base of social work values, skills, and knowledge of generalist social work in a systems theory perspective. The Seminars also assist students to expand their knowledge of the human services field beyond the confines of their own placement. Topics and policies of social work and social welfare are discussed, based in large part, on the experiences of students in the field through written logs, client summaries, and classroom discussions of experiences including feelings about their social work practice. Open to Social Work majors only. Required of all Social Work majors. A grade of "C" or better is required in this course to enter SWK 384. Must be taken with SWK 381. Offered in Spring only.

Prerequisites: SWK 250 and permission of the department. SWK 381 is a co-requisite.

SWK 383: Field Instruction in Social Work II

This is the second semester of field instruction (a total of 480 hours) in social welfare agency settings which is required under the supervision of a professional social worker. Students apply foundation knowledge, skills, values, and ethics of professional generalist practice. Through supervision students enhance their awareness of self, develop written and oral communication skills necessary for analysis of professional practice, and apply critical analytic skills for implementing and evaluating agency policies and programs. Students operationalize the unique values, functions and roles of professional social work practice and develop competency in identifying and assessing situations where the relationship of people and their social environment needs to be enhanced or changed. The professional responsibility of advocacy toward change and recognition of the impact of policy and programs on oppressed groups is an integral part of the applied learning. An agency-based research project is required in this semester of fieldwork. Open to Social Work majors only. Required of all Social Work majors. Must be taken concurrently with SWK 384. Offered in Spring only.

Prerequisites: SWK 381, SWK 382 and permission of the department. SWK 384 is a co-requisite.

SWK 384: Professional Seminar in Social Work II

This is the second of two required semesters of Professional Seminar in Social Work. The Seminars complement the Field Instruction and provide a structured learning opportunity where students process their practice experiences and integrate the common base of social work values, skills, and knowledge of generalist social work in a systems theory perspective. The Seminars also assist students to expand their knowledge of the human services field beyond the confines of their own placement. Topics and policies of social work and social welfare are discussed, based in large part on the experiences of students in the field through written logs, client summaries, and classroom discussions of experiences including feelings about their social work practice. An agency-based research paper is required. Open to Social Work majors only. Required of all Social Work majors. Must be taken with SWK 383. Offered in Spring only.

Prerequisites: SWK 381, SWK 382 and permission of the department. SWK 384 is a co-requisite.

SWK 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

SWK 400: Foundations in Human Behavior in the Social Environment

This course, for foundation-year graduate students in social work, teaches students to critically evaluate and apply biological, psychological, and social theories to client situations across the lifespan. Effects of the interplay of biological, psychological, social, economical and cultural elements of the social environment on human functioning are examined. Systems promoting or deterring people in the attainment and maintenance of optimal health and well-being are explored with particular attention on the effects over the life course of these systems on populations at risk, ethnic and racial minorities, sexual minorities, women, and persons with disability.

Prerequisites: Acceptance in the MSW major OR permission of the department.

SWK 450: Foundations of Social Work Practice with Individuals

Students will learn a planned change process that includes relationship building, prevention, planning, interviewing techniques, case recording, termination and evaluation. Attention to the evolution of social work practice from an historical and international perspective will establish the context for this introduction to practice with individuals in the context of the agency setting. Students will be expected to participate in a laboratory experience involving a helping relationship project. Knowledge and skills relevant to engaging diversity in practice and advancing human rights and social justice will be emphasized. Issues of ethical decision-making, evidence based practice and professional identity will be integrated throughout the course. This course is required of all Master of Social Work students.

Prerequisites: Acceptance in the MSW major OR permission of the department.

SWK 455: Foundations of Social Welfare Policies

This course, for foundation-year graduate students in social work, provides an historical perspective for understanding current issues in social work and social welfare. The policy making process is critically examined and the major actors associated with it are identified. A significant part of the course will be spent in the study of major welfare policies and the groups affected by them. Strategies and involvement of people for policy change are examined.

Prerequisites: Acceptance in the MSW major OR permission of the department.

SWK 460: Foundations of Social Work Research Methods

This course, for foundation-year graduate students, uses the scientific inquiry model for social and behavioral science research in social work practice. Students develop skills in formulating research problems and questions, conducting a comprehensive literature review, establishing hypotheses and choosing research designs, both quantitative and qualitative. Data collection instruments, analysis techniques and report writing are emphasized. Ethical issues related to human subjects, as well as sensitivity to the diversity of research participants are included. Emphasis is placed on social work practice evaluation techniques, including single-subject as well as experimental and quasi-experimental designs. Computers and information technology for social work practice are introduced. The use of appropriate statistical techniques in data analysis is covered.

Prerequisites: Acceptance in the MSW major OR permission of the department.

SWK 465: Foundations of Social Work Practice with Groups and Families

This course for foundation level graduate students in social work continues the study of the problem solving approach with multi-level client systems (individual, groups, families, communities, organizations). The course focuses on concepts, methods, and skills in social work practice with groups and families. Family development and dynamics will be studied and social work intervention techniques with emphasis on problem solving will be examined. Through class discussions, exercises and group projects, students will apply their understanding of group dynamics and family assessment, and demonstrate social work practice skills with groups and families.

Prerequisites: Acceptance in the MSW major OR permission of the department.

SWK 480: Foundations of Social Work Practice with Organizations

This course for foundation level graduate students in social work continues the study of the problem solving approach with multi-level client systems (individual, groups, families, communities, organizations). This course reinforces and applies social work knowledge, values, and skills using the problem solving approach and focuses on intervention strategies with communities and organizations. Students practice generalist social work within a systems theory framework. A policy practice emphasis is applied for advocacy and change strategies with agencies and communities. Particular attention will be given to strategies of change with populations at risk.

Prerequisites: Acceptance in the MSW major OR permission of the department.

SWK 481: Foundation Internship I

This internship is the first of two foundation-level, graduate semesters (total 480 hours) of field instruction in social welfare agency settings which are required under the supervision of a professional social worker. Students apply foundation knowledge, skills, values, and ethics of professional generalist practice. Through supervision, students enhance their awareness of self, develop written and oral communication skills necessary for analysis of professional practice, and apply critical analytic skills for implementing and evaluation agency policies and programs. Students operationalize the unique values, functions and roles of professional social work practice and develop competency in identifying and assessing situations where the relationship of people and their social environment needs to be enhanced or changed. The professional responsibility of advocacy toward change and recognition of the impact of policy and programs on oppressed groups is an integral part of the applied learning, as is development of professional identity. A grade of "C" or better is required in this course to enter SWK483, Foundation Internship II. Must be taken concurrently with SWK482, Integrated Professional Generalist Social Work Practice Seminar I.

Prerequisites: Acceptance into the MSW program; SWK481 is a co-requisite, and permission of the department is required.

SWK 482: Integrated Generalist Social Work Practice Seminar

This seminar, the first of two for foundation-level MSW students, begins an effective bridge to align the liberal arts perspective expected of entering graduate-level students and the advanced level family-in-environment content. The following concepts will be introduced and reinforced: the history and philosophy of the social work profession, social work values and ethics, the Generalist Intervention Model of Social Work, populations at risk, cultural diversity, promotion of social and economic justice, and fields of social work practice. The Seminars complement the Field Instruction and provide a structured learning opportunity where students process their practice experiences and integrate the common base of social work values, skills, and knowledge of generalist social work in a systems theory perspective. The seminars also assist students to expand their knowledge of the human services field beyond the confines of their own placement. Topics and policies of social work and social welfare are discussed, based in large part, on the experiences of students in the field through written logs, client summaries, and classroom discussions of experiences including feelings about their social work practice. Must be taken concurrently with SWK481.

Prerequisites: Acceptance into the MSW program; SWK482 is a co-requisite, and permission of the department is required.

SWK 483: Foundation Internship II

This is the second semester of field instruction (a total of 480 hours) in social welfare agency settings which is required under the supervision of a professional social worker. Students apply foundation knowledge, skills, values, and ethics of professional generalist practice. Through supervision, students enhance their awareness of self, develop written and oral communication skills necessary for analysis of professional practice, and apply critical analytic skills for implementing and evaluating agency policies and programs. Students operationalize the unique values, functions and roles of professional social work practice and develop competency in identifying and assessing situations where the relationship of people and their social environment needs to be enhanced or changed. The professional responsibility of advocacy toward change and recognition of the impact of policy and programs on oppressed groups is an integral part of the applied learning. An agency-based research project is required in this semester of fieldwork. Must be taken concurrently with SWK484, Integrated Social Work Practice Seminar II.

Prerequisites: Acceptance into the MSW program, SWK481 and SWK 482, and permission of the department is required. SWK 484 is a co-requisite.

SWK 484: Integrated Generalist Social Work Practice Seminar

This seminar, the second of two for foundation-level MSW students, continues aligning the liberal arts perspective expected of entering graduate-level students and the advanced level family-in-environment content. The following concepts will be integrated: professional use of self, social work values and ethics in the context of the mandate of the setting, the Generalist Intervention Model of Social Work, populations at risk, cultural diversity, promotion of social and economic justice, and fields of social work practice. The Seminars complement the Field Instruction and provide a structured learning opportunity where students process their practice experiences and integrate the common base of social work values, skills, and knowledge of generalist social work in a systems theory perspective. The seminars also assist students to expand their knowledge of the human services field beyond the confines of their own placement. Must be taken concurrently with SWK 483.

Prerequisites: Acceptance into the MSW program, SWK481 and SWK 482, and permission of the department is required. SWK 483 is a co-requisite.

SWK 491: Internship for Advanced Standing I

Offered to advanced-standing MSW students, this internship is the first of two graduate semesters (total 480 hours) of field instruction under the supervision of a professional social worker. While foundation social work practice is based on 10 competencies and their associated practice behaviors, advanced practice augments these competencies with the development of a knowledge concentration specific to advanced generalist practice. The purpose of this internship is to bridge foundation and advanced studies by 1) highlighting those foundation competencies that are most significant to this programs mission, and 2) allowing students to develop the skill of articulating to a variety of constituents the connection between conceptual frameworks and their increasingly complex, multi-level practice behaviors. Through supervision, students enhance and articulate their awareness of self and further the development of a professional identity as social workers. They articulate critical analysis for ethical decision-making and practice implementation and engage in practice-informed research. They articulate methods of assessing and intervening to advance human and civil rights through an understanding of the impact of policy and the strengths and challenges associated with diversity. Responding to the context of practice, students learn the importance of agency function and worker role multi-level, advanced practice. Must be taken concurrently with SWK 492.

Prerequisites: Acceptance into the MSW program and permission of the department is required. SWK 492 is a co-requisite.

SWK 492: Generalist Social Work Practice for Advanced Stand

This seminar for advanced standing students complements the field instruction by providing a structured learning opportunity. While foundation social work practice is based in 10 competencies with the development of a knowledge concentration specific to advanced generalist practice. The purpose of this internship is to bridge foundation and advanced studies by 1) giving students the opportunity to integrate an articulate those foundation competencies that are the most significant to the programs mission, and 2) allowing students to articulate the connection between conceptual frameworks and their increasingly complex, multi-level practice behaviors. Students articulate verbally and in writing their process of developing a professional use of self and professional identification. They articulate critical analysis for ethical decision making, practice implementation and practice-informed research projects. They articulate methods of assessing and intervention to advance human and civil rights through and understanding of the impact of policy and the strengths and challenges associated with diversity. Responding to the context of practice, students learn the importance of agency function and worker role to multi-level advanced practice. The seminar assists students to expand their knowledge of the human services field beyond the confines of their own placement through their shared experiences as discussed in class. Must be taken concurrently with SWK 491.

Prerequisites: Acceptance into the MSW program and permission of the department is required. SWK 491 is a co-requisite.

SWK 493: Internship for Advanced Standing II

Offered to advanced-standing MSW students, this internship is the first of two graduate semesters (total 480 hours) of field instruction under the supervision of a professional social worker. While foundation social work practice is based on 10 competencies and their associated practice behaviors, advanced practice augments these competencies with the development of a knowledge concentration specific to advanced generalist practice. The purpose of this internship is to bridge foundation and advanced studies by 1) highlighting those foundation competencies that are most significant to this programs mission, and 2) allowing students to develop the skill of articulating to a variety of constituents the connection between conceptual frameworks and their increasingly complex, multi-level practice behaviors. Through increasingly reflective supervision, students enhance and articulate their awareness of self and further the development of a professional identity as social workers. They articulate critical analysis for ethical decision-making and practice implementation and complete a practice-informed research. They articulate methods of assessing and intervening to advance human and civil rights through an understanding of the impact of policy and the strengths and challenges associated with diversity. Responding to the context of practice, students learn the importance of agency function and worker role multi-level, advanced practice. Must be taken concurrently with SWK 494.

Prerequisites: Acceptance into the MSW program and permission of the department is required. SWK 491 & 492 are pre-requisites and SWK 494 is a co-requisite.

SWK 494: Generalist Social Work Practice for Advanced Stand

This seminar, the second of two incoming MSW students with advanced standing status, continues to provide a structured learning opportunity for students enrolled in field instruction. The course continues to bridge foundation and advanced studies by 1) giving students the opportunity to continue the process of integrating and articulating those foundation competencies that are the most significant to the programs mission, and 2) allowing students to practice the articulation of the integration of conceptual frameworks into their increasingly complex, multi-level practice behaviors. Emphasis is placed on the following: independent, practice-informed program evaluation; autonomous articulation of social work principles and professional identity; engagement of diversity in practice along with advocacy toward human rights and social justice; and professional use of self within the social work role as it exists in agency context. Must be taken concurrently with SWK 493.

Prerequisites: Acceptance into the MSW program and permission of the department is required. SWK 491 & 492 are pre-requisites and SWK 493 is a co-requisite.

Sociology

SOC 10CD: Principles of Sociology

The concepts, theories and methods that form the core of the sociological perspective on human behavior. This course is a prerequisite for all other SOC courses.

SOC 106: History and Culture of Turkey

Spanning two continents, Turkey stands as a crossroads of some of the most important historical and cultural trends in the world. This course will explore the cultural history and current developments in Turkey, through readings, lectures and study abroad experience in Turkey itself. Students will gain knowledge of the multiple historical influences on the development of Turkey by visiting major architectural, historical and archeological sites in various parts of the country. Students will also have an opportunity to experience and observe modern Turkish culture through lectures, participation in events, and visits to important Turkish institutions. This course will serve as a basis for a study abroad program in Turkey.

Prerequisites: Permission of Instructor

SOC 110CD: Contemporary Social Problems

Current problems of urbanization, personal pathology, family interaction, poverty and race are viewed within the context of social theory.

Prerequisites: Prerequisite of SOC 10 or with permission of the instructor.

SOC 120CDWI: Marriage and the Family

An intensive analysis of contemporary marriage and family patterns and interactive processes in the United States viewed from historical and cross-cultural perspectives.

SOC 122CD: Intimate Relationships

This is a practical course designed to help students understand how cultural, economic, political, and social factors influence the various ways that intimate relationships among adults are formed, maintained, and either succeed or fail.

SOC 150: Law and Society

An introductory course that surveys selective legal and socio-political views on the place of the legal system in society. Attention will be given to contemporary issues which raise significant or troubling questions for the main theoretical themes, such as the historical basis for the principles of the "rule of law" or an "autonomous legal system" and the social conditions for their existence or nullification.

SOC 160WI: Sociological Analysis

This is an intermediate level course that emphasizes sociological approaches to writing and social analysis. Topics include the history of sociology, IRB, research methods, social scientific writing, theoretical approaches, and analysis of scholarly sources. This course is intended to prepare students for advanced courses in sociology, as well as provide opportunities for independent research.

Prerequisites: Student standing of Sophomore or Junior

SOC 180: Sociology of Leisure

An analysis of work and leisure; their structure and functions in American Society; trends in the availability and use of leisure time and changes in preferred leisure activities.

SOC 200QL: Statistics for the Social and Behavioral Sciences

The purpose of this course is to introduce the student to the concepts of descriptive and inferential statistics. The results of any research should be summarized by appropriate descriptive statistics such as central tendency, variability, and the shape of the distribution. Relationships will be studied using correlation, regression, and chi-square. Research which involves sampling will be analyzed by appropriate inferential statistics such as t-tests and ANOVA. Sampling error, hypothesis testing, significance levels, Type I Error, Type II Error, and power will be discussed. In addition, the student will be introduced to SPSS for Windows, Microsoft Excel, and/or other appropriate software for performing descriptive and inferential statistical procedures presented throughout the course. No students (Sociology or non-Sociology majors) may receive credit for both POL/PSY/SOC 200 and SOC 201 due to substantial overlap.

Prerequisites: PSY 011 (Psychology majors need a 'C' or better) and MAT 017 or higher (except 040 Geometry, and 045 Women in Mathematics). Students that have passed SOC 201 with a grade of "D" or better may not take this course.

SOC 201QL: Quantitative Analysis in Sociology

The purpose of the course is to familiarize students with the basic concepts of quantitative analysis in sociological research and provide practical training in computer-assisted analysis at a beginner level. Emphasis is placed on hands-on experience with manipulation and analysis of quantitative data. Sociology majors may take either POL/SOC/PSY 200 or SOC 201 to fulfill core statistical training requirements. No students (Sociology or non-Sociology majors) may receive credit for both POL/SOC/PSY 200 and SOC 201 due to substantial overlap.

Prerequisites: SOC 10 & MAT17 and up (but not MAT 40or45)

PLEASE NOTE: Students who have taken SOC/PSY/POL 200 with a grade of "D" or better may not take this course.

SOC 207CDWI: Families and Social Class

This course will examine contemporary American families, focusing on the different ways in which social class can affect family life. Theories of social stratification will provide a foundation from which to study various social classes, including upper, middle, working, and lower classes. Family life issues to be covered in this course include mate selection, family size, childbearing patterns, marriage/divorce/cohabitation patterns, childrearing patterns, education, life chances, and social mobility. In addition, special attention will focus on the intersection of social class, race/ethnicity, and gender as multiple dimensions of advantage/disadvantage for families.

Prerequisites: SOC 010 Principles of Sociology.

SOC 208: Childhood and Adolescence in American Society

This course explores the social factors that influence children from infancy through adolescence in the United States. Through course reading, assignments, and discussions, the course will cover the social implications (such as the family, school, media, and health care) in which children interact and the social forces which effect and shape children. This course will also look at these social institutions and the social world of children from children's perspectives, viewing children as active social participants with their own values and subcultures. The course will be of interest to those concerned about issues of social welfare and public policy as well as those who plan to work with children and adolescents.

Prerequisites: SOC 010 Principles of Sociology.

SOC 213CDWI: World Religions

This course will examine the great "World Religions" Judaism, Christianity, Islam, Hinduism, Buddhism, and East Asian Religions in terms of their historical developments and contemporary manifestations. The course will cover basic techniques of scriptural exegesis, explore the historical roots and expansion of each religion, and examine how the religions have diversified in the face of cultural and political developments locally and globally. Special focus will be given to religious issues that are involved in major geo-political conflicts, such as the attacks of September 11, 2001, the rise of fundamentalism around the world, and the conflicts in the Middle East and South Asia.

Prerequisites: ANT 10 or the permission of the instructor.

SOC 214VL: Sociology of Visual Culture

The goal of this course is to provide students with skills for observing, analyzing, describing and critiquing visual imagery from a range of diverse theoretical perspectives. In particular, this course will emphasize 1) the significance of the "visual" in society 2) methods of "reading" visual material/productions 3) the role of the "visual" in sociological research.

Prerequisites: ANT 10 or SOC 10

SOC 217CD: LGBTQ Studies

The purpose of the course is to introduce students to Lesbian, Gay, Bisexual, transgender, and Queer (LGBTQ) Studies. It will trace the conceptual distinctions drawn between sex, gender, and sexuality, as well as the history of diverse genders and sexualities. It will also examine contemporary issues facing LGBTQ individuals and communities. Emphasis is placed on feminist and social constructionist approaches to studying LGBTQ issues.

SOC 220CD: Juvenile Delinquency

An analysis of the nature, type and incidence of delinquency within social milieu; an examination of the social characteristics of delinquents and the theories of delinquency, evaluation of the techniques of prevention and control by social agencies, and trends in delinquency.

SOC 222: Rural Poverty

This course centers on the sociology of poverty in rural areas in the United States as well as in other, particularly third-world nations. The sociology of poverty is part of the broader study of stratification, a core substantive field in the discipline. The course situates the topic of rural poverty into sociological theories and research on stratification. However, sociological theory and research on poverty and inequality are often aspatial or have an urban bias. We thus go beyond conventional approaches to studying poverty and add a spatial dimension. Our focus is: “Who gets what, where and why?” Attention is to spatial inequalities in socioeconomic well-being within the U.S. and cross-nationally.

SOC 224CDCT: Immigration and Assimilation

This course seeks to expose students to the recent social literature on contemporary immigration to the United States, its origins, adaptation patterns, and long-term effects on American society. It focuses on why people move and the policies that let some people in while keeping others out. Consideration is given to the process by which foreign “outsiders” become integrated in their new home; of particular interest are debates around “straight-line” and “segmented” assimilation. This course also sheds light on second-generation immigrants’ identity, mobility and integration into the dominant culture. The course ends with an overview on the future of immigration, challenges faced by undocumented immigrants and policies and debates that surround the attempt to ‘fix’ our broken immigration system.

SOC 227: Work and Workplaces

Moving beyond viewing work as purely economic activity, this course examines the social and cultural aspects of work and workplaces. Non-industrial and industrial work will be examined in cross-cultural settings, focusing on the role of work in affecting identity, status and meaning. Particular emphasis will be placed on work in the contemporary global economy in both industrialized and post-industrialized countries. Course readings will be drawn from ethnographic studies carried out by both anthropologists and sociologists.

SOC 230CDCT: Urban Sociology

This course examines urban life in both the United States and globally with emphasis on patterns of city growth, social ecology and urbanism as a way of life. Other topics may include: built environment, migration, globalization, political-economy, and sustainability.

SOC 232CDWI: Marriage and the Family in Cross-Cultural Perspective

This course examines the forms taken by marriages and families in various world societies. The following questions will be addressed: What aspects of marriage and family are the same for all humans, and what aspects are variable? What factors account for major cross-cultural differences in the organization of marriage and the family? Why are some features the same (or nearly so) all over? Is there a biosocial base? How are marriage and family relationships used as metaphors in organizing other aspects of social life?

SOC 235CDWI: Sociology of Gender

The course will deal with the implication of the sociological perspective on gender differences in contemporary society. More specifically, discussion will be focused on such aspects as gender inequality as an aspect of social stratification, origins of gender differences, gender socialization, gender and social policy, gender and personal relationships, and the future of gender.

SOC 240: Population Problems

An exploration of the causes and consequences of population pressures with special attention to the impact of population growth on resources and environment.

SOC 241CD: Race And Ethnicity

The sources and consequences of prejudice and discrimination; minorities in the social structure; strategies and programs to prevent and control inter-group tensions and conflicts.

SOC 245CD: Sociology of Deviance

Selected kinds of behavior which violate group norms; the processes through which deviance is learned and performed; the consequences of deviant behavior in terms of societal reactions.

SOC 246CDCT: Globalization and Development

This course surveys the social causes and consequences of underdevelopment in Third World societies. One of its basic premises is that development and underdevelopment must be defined in terms of quality of life as well as strictly economic indicators. A prominent (but not exclusive) focus is the problem of world hunger. This issue is used as a gateway to other significant development related issues (e.g. population, industrialization, urbanization, rural development).

Prerequisites: ANT 10 or SOC 10

SOC 247WI: Environmental Sociology

This course examines the intersection of different environments and social life from both a U.S. and global perspective. Topics covered may include: built environments, environmental racism, natural disaster, famine, sustainability, urban development/sprawl, and social movements.

Prerequisites: ANT 10 or SOC 10

SOC 250: Criminology

An intensive review of the major theories of criminal behavior and their applications in crime prevention and control. Examination of leading crime types and criminal behavior systems.

SOC 260CD: Social Stratification

Theories of social class and mobility with a discussion of problems of measurement and differential levels of wealth, prestige and authority.

SOC 270: Sociology of Organizations

The study of modern man's interactions to and within large-scale organizations with emphasis on the characteristics and structure of bureaucracy.

SOC 271: White Collar Crime

This class is designed as an intermediate level sociology course for students interested in the scientific study of white collar crime. The course will examine various individuals and businesses that commit white collar crimes, the contributing factors for these types of crimes, the various methods of detection and measurement of these crimes, the different types of white collar crime and their effects on the specific victims and society in general and the theories attempting to explain the causes of white collar crime.

SOC 275: Social Foundations of Human Behavior

This course deals with the paradox of society's persistence and the individual's uniqueness. The focus of discussion will be on the question: How can we explain how men are held together and, at the same time, set apart? The course will be organized from the theoretical perspective of symbolic interaction within sociology.

Prerequisites: 6 s.h. in Sociology or permission of the instructor.

SOC 280CD: Social Movements

The purpose of this course is to introduce students to the concept of social movements and collective behavior. It will examine early interests in crowds, riots, and manias, as well as how the rise of early movements like the civil rights and women's rights movements created broader recognition and interest in the various ways people mobilize and challenge institutionalized politics. It will address what social movements are, how they come to be, who is involved in them, how the larger society shapes them, and how they influence society.

SOC 290: Social Gerontology and Social Welfare

This course is aimed at analyzing the process of aging from a sociological perspective and studying the resources that our society provides for the over-sixty population through social welfare measures. There will be double pronged emphasis: one placed upon various social problems confronting them in American society; the second emphasis will be on the array of social welfare services available, the social policies implicit in the provision of such services, and the social work practices that enable older persons and their families to secure such services.

Prerequisites: SOC 010 or SWK 100 for non-Social Work majors. Prerequisite for Social Work majors: SWK 100, 250 & SOC 10.

SOC 310: Foundations of Sociological Theory

Consideration of the significant developments in sociological thought. Special emphasis will be placed on the contributions of Marx, Weber, Simmel, Pareto, and Durkheim.

Prerequisites: Jr. Level or above

SOC 350CTWI: Methods of Social Research

An introduction to sociological research covering research design, data collection, processing, and analysis, sampling, evaluation of research studies.

SOC 370: Selected Topics in Sociology

Extensive readings, critical evaluations and papers on selected research monographs. Selection of topics will vary, depending upon the needs of eligible students. This course may be repeated for credit.

SOC 371: Selected Topics in Sociology

Extensive readings, critical evaluations and papers on selected research monographs. Selection of topics will vary, depending upon the needs of eligible students. This course may be repeated for credit.

SOC 372: Selected Topics in Sociology

Extensive readings, critical evaluations and papers on selected research monographs. Selection of topics will vary, depending upon the needs of eligible students. This course may be repeated for credit.

SOC 373: Selected Topics in Sociology

Extensive readings, critical evaluations and papers on selected research monographs. Selection of topics will vary, depending upon the needs of eligible students. This course may be repeated for credit.

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Extensive readings, critical evaluations and papers on selected research monographs. Selection of topics will vary, depending upon the needs of eligible students. This course may be repeated for credit.

SOC 376: Selected Topics in Sociology

Extensive readings, critical evaluations and papers on selected research monographs. Selection of topics will vary, depending upon the needs of eligible students. This course may be repeated for credit.

SOC 377: Selected Topics in Sociology

Extensive readings, critical evaluations and papers on selected research monographs. Selection of topics will vary, depending upon the needs of eligible students. This course may be repeated for credit.

SOC 378: Selected Topics in Sociology

Extensive readings, critical evaluations and papers on selected research monographs. Selection of topics will vary, depending upon the needs of eligible students. This course may be repeated for credit.

SOC 379: Independent Study

Before registering the student is required to consult with the faculty member in the discipline to be studied who will supervise the independent study. May be repeated for credit.

SOC 380CMWI: Senior Seminar in Sociology

This course consists of readings and discussions in the area of the individual student's interest in preparation for the comprehensive examination in Sociology. Required of all Liberal Arts students majoring in Sociology.

Prerequisites: 88 credits completed

SOC 390: Internship in Sociology

The student is placed in a sociological fieldwork situation in which practical vocational experience can be acquired in some agency or institution related to the student's future career plans. Interested students should apply through their advisor.

Prerequisites: Jr. Level or above

SOC 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

SOC 450: The Sociology of Education: School and Modern Sociology

The educational system in the United States is viewed from a sociological perspective, focusing upon the social forces that shape the schools and the internal social structure and processes which influence its mission in society.

Spanish

SPA 11: Elementary Spanish I

SPA 011 is an introductory level course for students with no previous or minimal experience in the language.

SPA 12: Elementary Spanish II

SPA 012 is the sequence to SPA 011 and is designed for students with one semester of college Spanish or one year of high school Spanish. Emphasis is on oral aspects of the language with substantial work on reading and writing skills and an introduction to Hispanic culture.

SPA 103: Intermediate Spanish III

Students who have satisfactorily completed Elementary Spanish I and II, or equivalent, continue the development of the basic skills in aural comprehension, speaking, and writing. In addition, emphasis is placed on independent readings.

SPA 104: Intermediate Spanish IV

Students who have satisfactorily completed Elementary Spanish I and II, or equivalent, continue the development of the basic skills in aural comprehension, speaking, and writing. In addition, emphasis is placed on independent readings.

SPA 105: Intermediate Spanish for Business I

This course, the first half of the Intermediate Spanish for Business sequence, integrates a four-skills approach to intermediate Spanish with an emphasis on real-life language tasks involving business contexts and Hispanic cultures. Topic-specific business vocabulary and thematic readings are emphasized while incorporating the “5C’s” of second language acquisition (communication, cultures, connections, comparisons, and communities). (Taught in Spanish).

Prerequisites: SPA 12 or permission of instructor

SPA 106: Intermediate Spanish for Business II

This course, the second half of the Intermediate Spanish for Business sequence, integrates a four-skills approach to intermediate Spanish with an emphasis on the continued study of real-life language tasks involving business contexts and Hispanic cultures. Topic-specific business vocabulary and thematic readings are emphasized while incorporating the “5C’s” of second language acquisition (communication, cultures, connections, comparisons, and communities). (Taught in Spanish).

Prerequisites: SPA 105 or permission of instructor

SPA 110: Spanish for Educators

This course is designed to introduce to educators and participants the language and the culture of the different groups that make up the Spanish-speaking community in the areas surrounding Kutztown University. Participants will be learning the basics of the Spanish language, which will allow them to better communicate in Spanish with both learners and their parents/guardians who speak Spanish. In addition to introducing the Spanish language, this course will include a selection of films, readings written by Hispanic authors dealing with the Hispanic experience in the USA, and speakers from the Hispanic community.

SPA 207WI: Writing in Spanish for the Professional World

This course focuses primarily on written forms created in the professional world, including but not limited to letters, memoranda, email, and business reports, such as executive summaries and minutes from meetings. Through modeling and practice of forms, researching external sources, and a variety of hands-on activities and projects, students will gain experience communicating in a professional environment. In addition to written forms, this course also allows students to practice job interviewing and to analyze team dynamics during group projects. (Taught in Spanish).

Prerequisites: SPA104 or SPA 106 or permission of the instructor

SPA 212WI: Spanish Composition

This course is designed to improve the student's writing skills in Spanish. Special attention will be devoted to learning some of the basic types of writing: descriptive, narrative, expository, persuasive and the research paper.

Prerequisites: SPA 104

SPA 213CM: Advanced Conversation in Spanish

This course is designed for students who have successfully completed the intermediate level of Spanish (022 or the equivalent) and who are not "native" speakers of Spanish. The focus is on oral communication in Spanish. The course will be conducted in Spanish and oral projects will be used for purposes of grade assessment.

Prerequisites: SPA 104

SPA 214CDCM: Written and Oral Communication for Spanish-speaking Heritage Learners

Written and Oral Communication for Spanish-speaking Heritage Learners (SHLs) is a course designed for those learners who are currently and linguistically connected to the Spanish-speaking community in PA and beyond. The aim of this course will be to offer enhanced/increased oral and written proficiency of Spanish as it explores the linguistic diversity of Latinos through activities aligned with the three modes of communication: interpretive (reading and Listening); interpersonal (authentic oral and written interpersonal communication); and presentational (writing and speaking). This course will also serve to re-connect SHLs to cultural issues of their community. (In Spanish)

SPA 220: Applied Linguistics in Spanish

Introduction to general linguistics, emphasizing the practical application of the basic structural and phonetic patterns of Spanish to language teaching. Students will be introduced to the fundamental principals of phonology, morphology, syntax, semantics, language acquisition, foreign language acquisition, foreign language methodology, sociolinguistics and neurolinguistics. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 222: Don Juan in the Western World

Don Juan in the Western World explores the influence of the legendary Spanish figure of Don Juan on the literature, music and film of Western Europe and the Americas. All works not originally written in English will be studied in their English translation. This course will be taught in English.

SPA 225: Introduction to Spanish/English Translation

This course develops basic knowledge, skills and techniques required for translation as well as continued growth of linguistic resources such as vocabulary, structures and style within a Spanish/English linguistic and cultural context. The student will learn how to address translation problems related to culture and language as well as the fundamentals of applied translation from different fields such as medicine, advertising, sports, computer science, etc. The student will also acquire basic knowledge of translation theory.

Prerequisites: SPA 212 or permission of the instructor.

SPA 230: Cultural Issues**SPA 247: Modern Latin American Literature in Translation**

An in-depth study of outstanding Twentieth Century literary works of Latin American writers. The survey will include representative works from the major literary genres: novel, essay, short story, drama and poetry.

Prerequisites: ENG23, ENG24 or ENG25

SPA 251: Survey of Spanish Literature in Translation I

This course traces the development of Spanish literature from its origins through the nineteenth century. Representative Readings of the major literary types (In English translation).

SPA 252: Survey of Spanish Literature in Translation II

This course traces the development of Spanish literature from the nineteenth century through the present. Representative readings of the major literary types (In English translation). NO PREREQUISITES.

SPA 291: Advanced Business Practices and Cultures I

This course will build upon the foundation of Spanish business vocabulary, discourse and practice laid in SPA 105/106 while developing conceptual knowledge of general management, accounting and finance principles. The course will also develop geographic literacy and cultural understanding of the Spanish-speaking world with a primary emphasis on Spain, Mexico, and Central America. (Taught in Spanish).

Prerequisites: SPA 207 or SPA 212 or permission of the instructor

SPA 292: Advanced Business Practices and Cultures II

This course will build upon the foundation of Spanish business vocabulary, discourse and practice laid in SPA 105/106 while developing conceptual knowledge of goods and services, marketing and markets, including financial markets. The course will also develop geographic literacy and cultural understanding of the Spanish-speaking world with a primary emphasis on South America and the Caribbean. (Taught in Spanish).

Prerequisites: SPA 207 or SPA 212 or permission of the instructor

SPA 301: Survey of Spanish Literature I

The development of Spanish literature from its origins through the end of the eighteenth century. Representative readings of the major literary types. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 302: Survey of Spanish Literature II

A survey of the literature of Spain of the nineteenth century to the present. Representative readings of varied literary types. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 311: Spanish American Literature to 1910

SPA 311 will survey the development of Spanish American Literature from its origins to 1910. Representative readings of the major literary types. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 312: Spanish American Literature from 1910 to the Present

SPA 312 is a continuation of SPA 311 and will survey the development of Spanish American Literature from 1910 to the present day. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 315: Rebels and Romantics

This course focuses on the Romantic movement in Spain. From a nuanced understanding of the late eighteenth century to a discussion of the “death” of high Romanticism in 1844, the class centers on the political and historical context of liberal Romanticism with its emphasis on individualism, alienation, freedom, rebellion, national history and poetic genius. (Taught in Spanish).

Prerequisites: SPA 212 or permission of the instructor.

SPA 320: Contemporary Spanish Novel

SPA 320 will survey the development and history of the Spanish Peninsular Novel from 1898 to the present. Representative works and authors from this period will be studied. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 325WI: Advanced Syntax and Stylistics

This course is designed for those who have successfully completed SPA 212, and who are ready for additional work toward mastering the fine points of syntax. In addition, the course will offer extensive practice in analyzing literary and colloquial styles and will provide the practice needed to develop the ability of the student to express him/herself in writing and speaking in acceptable idiomatic styles. Greater proficiency, ease and enjoyment in reading prose and poetry in various styles will be a concomitant result of the course. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 330: Contemporary Spanish Drama

This course studies the development of modern and contemporary Peninsular Spanish Drama from 1898 to the Present. Representative works from the Generation of '98, the Spanish Civil War, Franquist Spain, and the New Democratic Spain will be studied. The course will include extensive reading of plays as well as written and oral work on criticism, history, authors and periods. (In Spanish.) A trip to NYC or Philadelphia to see a play is a course requirement.

Prerequisites: SPA 212 or permission of the instructor.

SPA 339: Latin American Popular Culture

This course examines Latin American popular culture from the nineteenth century to present. The primary focus is on defining popular culture versus high culture through comics, film, telenovelas (Spanish soap operas), fashion, music, art, festivals and religion. (Taught in Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 340: Spanish Culture and Civilization

Spanish life and culture from its origins to 1898 as seen in literature, art, music and philosophy. The folklore, linguistic and social aspects of culture will also be covered to acquaint the student with the complexities of the national background. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 341: Modern Spain 1898 - Present

Modern Spain 1898 - present is designed as a socio-political-economic study of Spain since the loss of her colonial empire. It is a study of historical, literary and cultural trends and genres as well as the development and progression of the arts and literatures in Spain within the context of the growth and development of its social, economic and political institutions. The course will relate developments in Spain to those in Europe and the world. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 343: Bilingualism and Sociolinguistic Issues in the Spanish Speaking World

This course examines Hispanic bilingualism and sociolinguistics, with particular emphasis on Spanish in the U.S., but includes Spanish in contact with other languages throughout Latin America and Spain. In this course we will consider language contact from historical, sociological, theoretical, educational and political perspectives. This course will be taught in Spanish.

Prerequisites: SPA 212 or permission of the instructor.

SPA 345CDVL: Latin American Culture and Civilization to the Nineteenth Century

A selective study of important Latin American historical, social, literary and cultural trends and artistic movements and values from the pre-Columbian period to the nineteenth century. Emphasis will be placed on the Latin American versions of key Western-period terms such as: Renaissance, Baroque and the Enlightenment. Some literary selections and artistic works are selectively introduced in order to illustrate the cultural trends under study. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 346: Latin American Culture and Civilization from the Nineteenth Century to the Present

This course, which could be taken independently from the previous, continues the study of important Latin American cultural trends and values from the nineteenth century to the present. Emphasis will be placed on the Latin American versions of key Western-period terms such as romanticism, avant-garde approaches as well as on locally generated movements such as Modernismo, Arielismo, Indigenismo, etc. Some literary selections and artistic works are selectively introduced in order to illustrate the cultural trends under study. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 348CDCT: Mexican Culture and Civilization

This course is a panoramic exploration of the depth and variety of Mexican Culture and Civilization. This course will incorporate a multidisciplinary approach to the historical, political, cultural, artistic, and socio-economic movements that have influenced and continue to influence Mexico as a nation. Cultural manifestations such as art, music, narrative texts and film will be examined. Oral and written practice in critical thought will further mastery and expression of the Spanish language. The course is taught in Spanish. Three semester hours. Three contact hours.

Prerequisites: SPA 212 or permission of the instructor.

SPA 350: Spanish Drama of the Golden Age

This course will present the development of the Spanish national drama in the Sixteenth Century and its culmination in the latter part of the Seventeenth Century. Students will become familiar with the contribution of the Spanish theater to the development of a national awareness and those traditional values considered to be essentially Spanish. Students will become familiar with the versification forms used by the dramatists of the era. (In Spanish.) SPA 212 or permission of instructor.

SPA 355: Spanish Literature of the Golden Age

Emphasis on the development of the different forms of the Spanish novel, the various genres of poetry and dramatic developments of the period. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 358: Voices of Central America

A multi-disciplinary introduction to contemporary Central America, this course, taught in Spanish, will explore the following aspects of Guatemala, Honduras, El Salvador, Nicaragua, Costa Rica, Panama and Belize: Peoples, geography, arts, and literature in a socio-political, economic and historical framework. The course will use extensive Internet resources, film, theatre as well as guest lectures. Some off-campus activities will be required.

Prerequisites: SPA 212 or permission of the instructor.

SPA 360: Study Abroad Experience

This course permits approved study abroad experiences to be counted in the student's Spanish major (B.A. and B.S.Ed.), minor or concentration. Prior to an approved study abroad experience, any students majoring in Spanish may, with the input and approval of her/his advisor, request that 1-6 credit hours be granted toward her/his major based on the activities to be undertaken. Any student minoring in Spanish or seeking a concentration in Spanish may request that 1-3 hours be granted based on the activities to be undertaken. Students are required to prepare a written request to the advisor giving a description of activities and a rationale for requesting credit. This course is available only to students majoring, minoring or earning an Elementary Education concentration in Spanish who complete an approved study abroad program and meet evaluation standards approved by the Spanish advisor.

SPA 363CTWI: Spanish and Entrepreneurship

In this course, students will develop the habits and skills necessary to become entrepreneurs, or to apply the entrepreneurial leadership mindset to their work as employees, with a particular in-depth focus on the use of the Spanish language and an understanding of Hispanic cultures as they pertain to entrepreneurship in the Spanish-speaking world and its place within the global business context. The course, taught in Spanish, is usable for the Spanish major and minor.

Prerequisites: SPA 207 or permission of the instructor.

SPA 368: The Caribbean: Race, Gender, and Cultural Politics

This course is a study of the cultural politics of identity formation in the Spanish-speaking Caribbean, particularly in Cuba, Puerto Rico and the Dominican Republic. Areas of focus will include: the textual and cinematic representations of slavery and of the Afro-Caribbean experience, from anti-slavery works through la poesía negra to the more recent manifestations of Afro-centrism; the Siboney movement; the Taíno revival; and Pan-Caribbeanism. The class is primarily discussion with some lecture. (In Spanish)

Prerequisites: SPA 212 or permission of the instructor.

SPA 370: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

SPA 371: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 372: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 373: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 374: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 375: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 376: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 377: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 378: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 379: Selected Topics in Spanish

This course entails an intensive study of a selected literary topic not included or not covered in depth in other Spanish courses. May be repeated for credit. (In Spanish.)

Prerequisites: SPA 212 or permission of the instructor.

SPA 380CDCT: Senior Seminar in Spanish

This course consists of extensive readings, intensive oral work in the form of discussions and in-class presentations, and written paper(s) in preparation for the comprehensive exams in Spanish. The content of the course will revolve around solidifying the students' knowledge of literary periods, characteristics and genre, principal authors, and their works with their historical and cultural content.

Prerequisites: 27 Credits minimum at 200-level or above

SPA 390: International Internship in Spanish

This course is designed for the student wishing to spend an extended period of time abroad or at an approved domestic agency/organization in either an internship situation or non-traditional studies. Students must demonstrate that the internship or non-traditional program will be conducted in the foreign language of study and will be adequately supervised. They must present written details of the program including objectives and methods of study to their academic advisor for approval prior to the period of study. Students must also present a written journal, paper or other relevant materials to the Advisor on their return and be prepared to make a presentation about their experiences (1 - 9 hours).

SPA 395: Independent Study in Spanish

Independent Study in Spanish.

SPA 413: Major Spanish American Novelists of the New Narrative Period

This course is an intensive study of representative novels by major Spanish American writers of the "New Narrative Period." This period spans approximately five-and-one-half decades, from the mid-forties to the present. The course will focus on the writers' new visions and interpretations of the history, mythology and present realities of the Spanish American world. Additionally, the course will link the thematic content to the stylistic and structural innovations made by these authors in creating the "new Spanish American novel." (In Spanish)

SPA 414: Major Spanish American Short Story Writers of the New Narrative Period

This course is an intensive study of representative collections of short fiction by major Spanish American Writers of the "New Narrative Period." The course also provides the students with the opportunity to study in depth and apply the latest critical approaches to textual analysis. (In Spanish)

SPA 415: Mexican Literature: Voices of a Nation

This advanced course examines the complexity of Mexican Literature particularly as relates to the development and expression of national identity. This course will focus on a variety of narrative discourses (novel, short story, drama, essay and poetry) while contextualizing said narratives within appropriate cultural and historical chronologies. In-depth practice with literary and cultural analysis will be accompanied by opportunities for increased proficiency in oral and written expression. (In Spanish)

SPA 425: Advanced Spanish Grammar and Composition

This advanced course examines the finer points of advanced Spanish grammar. With an emphasis on composition, an intensive analysis and practice of the typical "problem areas" (such as the preterite vs. the imperfect, the indicative vs. the subjunctive, ser vs. estar, por vs. para etc.) will be approached through a contrastive method that is particularly insightful for individuals conversant in Spanish and English. In addition, the course will offer extensive practice in analyzing literary and colloquial styles and will provide necessary practice to further mastery and expression (oral and written) of acceptable idiomatic styles. Greater proficiency, ease, and enjoyment in reading as well as an increased awareness of cultural manifestations in writing will be concomitant results of the course. (In Spanish)

SPA 431: Modern Spain through Literature and Film

This course studies the major political, cultural, social and economic changes that have taken place in Spain during the second half of the 20th century. Special attention is paid to the following periods: the civil war, the postwar period, the economic boom in the sixties, the transition from dictatorship to democracy and the establishment of democracy. The films and novels studied in this course dramatize the major events that have shaped Spanish history since the end of the Civil War. (In Spanish)

SPA 435: Modern Latin American Drama

An intensive study of representative theatre works by major Spanish American, Central American, Mexican and Caribbean dramaturges of the twentieth century with an emphasis on the contemporary period. Students will read and evaluate plays and study appropriate critical approaches to modern theatre within the context of socio-political, economic and historic conditions and events. Attendance at selected plays is required. (In Spanish)

SPA 447: Mexican Culture and Civilization

This course is an intensive exploration of the depth and variety of Mexican Culture and Civilization. This course will incorporate a multi-disciplinary approach to the historical, political, cultural, artistic, and socio-economic movements that have influenced Mexico as a nation. Various cultural manifestations will be examined including art, music, narrative texts and film. Extensive oral and written practice in critical thought will further mastery and expression of the Spanish language. (In Spanish)

SPA 460: Hispanic Literature in the USA

This course is an in-depth study of several Hispanic writers writing in Spanish in the USA. It includes representative works from all major literary genres: novel, essay, short story, drama and poetry. Except for a few short texts written in English, the majority of the works are written in Spanish. (In Spanish)

SPA 470: Selected Topics in Spanish

This course offers an intensive study of literary topics, cultural phenomena, styles, trends, criticisms, and writers not included or not covered in depth in other Spanish courses.

SPA 495: Independent Study in Spanish

This course, which shall be taught in Spanish, is for students who wish to study and explore, in depth, aspects of Spanish and Latin American literatures, cultures and societies or a special topic in Spanish language. It is open to both graduate and undergraduate students. Students may register for this course more than once, up to a maximum of six semester hours of credit, so long as they do not repeat the same topic. The student must confer and reach agreement with the faculty member who will guide the independent study. The student and the faculty member must agree upon a topic, course content, evaluation procedures, reading list, and amount of credit prior to registration for the course. This material (course content, evaluation procedures, reading list, etc.) must be filed with and receive approval of the majority of Spanish professors and of the departmental chairperson.

Special Education

SPU 100: Early Intervention and Transition for Students with Disabilities

This course is designed for prospective teachers of students with disabilities. This course will cover early intervention programming. Knowledge of preventing the full impact of a disability on a child, providing general curricula and instruction, addressing universal design of instruction, and disability specific instruction that meets the needs of children addressing disability, cultural, and language diversity from birth to age 8, or the transition to preschool or school age programming. This course will also address the transition of children from the educational system beginning at age 14 to graduation.

Prerequisites: College of Education majors only

SPU 101: Early Intervention for Students with Disabilities

The course is designed for perspective teachers of students with disabilities. This course will cover early intervention programming. Knowledge of preventing the full impact of a disability on a child, providing general curricula and instruction, universal design of instruction, disability specific instruction that meets the needs of the child's addressing disability, cultural, and language diversity from birth to age 8, and the transition to preschool or school age programming will be addressed.

Prerequisites: College of Education majors only

SPU 200: Reading, Writing, and Teaching Unified English Braille

This course provides knowledge and skills in reading and writing braille 1 and 2 in the Unified English Braille code. It presents an overview of other means of communication used by the blind, including those with multiple disabilities. Experiences are structured to include writing braille with a Perkins Braille Writer, reading and transcribing braille material, basic textbook formatting, methods of teaching braille reading, and an introduction to computer systems used to produce Braille.

Prerequisites: SPU 201

SPU 201CD: Cognitive Development of Diverse Learners in a Standards Aligned System

This course provides the knowledge base to the terminology, identification, and issues commonly encountered when addressing the needs of diverse students with disabilities. Emphasis will be placed on diversity issues, federal and state legislative mandates pertinent to nondiscriminatory assessments, parental involvement and individualized educational plans; and professional practice and foundations in special education. Prerequisites: Open to students in the College of Education or in the majors of Art Education or Music Education.

SPU 202: Orientation and Mobility for Teachers of Students with Visual Impairment, including Deaf blindness

This course covers exploration of space in the home and school environment and the wider community according to individual needs of students with visual impairments. Practical experiences are provided in orientation and mobility training under conditions of simulated blindness. Experiences are structured to sequentially afford environmental situations of increasing complexity. Students will learn how to utilize functioning sense modalities in conjunction with specially designed mobility techniques for the purpose of teaching individuals how to move safely, effectively, and independently in the environment.

Prerequisites: College of Education majors only

SPU 204: Anatomy of the Eye and Related Assessment of Students with Visual Impairments

This course provides lectures and demonstrations on anatomy and physiology of the eye. The course will cover structure and function of the eye, causes and implications of eye conditions, clinical assessment, functional vision assessment, environmental assessment, and stereotypical behavior assessment. This course will provide an introduction to learning media assessment. This course will cover the foundations of working with students with low vision. This course will discuss the relationship of visual impairment to other disabilities, neurological aspects of visual impairments, and educational implications. The course will provide opportunities for student use of low vision aids, activities with low vision simulation, and completion of a functional vision assessment, including environmental assessment, and stereotypical assessment.

SPU 216: Evidence-Based Practices in Mathematics for Students with Disabilities

This course presents an in-depth study in the teaching of mathematics for special education majors using evidence-based practices. The course will present research-based methods that have been effective for students with disabilities in the area of mathematics. A variety of interventions and resources will be used to address specific mathematical skills. These interventions and resources will be integrated into daily instructional plans and/or used as a replacement academic resource. An emphasis on evidence-based practices in mathematics and procedures for mathematical interventions for students with disabilities ranging from the primary level of education to the secondary level will be introduced in this course.

Prerequisites: MAT 103 with a grade of "C" or better, MAT 104 with a grade of "C" or better and SPU 201.

SPU 221WI: Assessment for Students with Visual Impairments

This course addresses the assessment of students with visual impairment, the interpretation and application of assessment results, and reporting procedures from the collection of assessment data. The course will cover clinical assessment, functional vision assessment, learning media assessment, environmental assessment, travel skills screening, stereotypical behavior assessment and other forms of assessment for students with visual impairment. The course will provide opportunities for the completion of a vision assessment, including functional vision assessment, and learning media assessment.

Prerequisites: College of Education majors only

SPU 300: Reading, Writing, and Teaching Unified English Braille, Nemeth Mathematics, and Other Braille Codes

This course provides knowledge and skills in mastery of the Unified English Braille Code, Nemeth Code, and use of the abacus. Students will demonstrate competence in braille mathematics in both Unified English Braille and Nemeth code. Grade 3 braille, slate & stylus, braille foreign language, braille music, basic formatting, and extended experiences in reading and writing grade 2 braille will be covered. Advanced methods of teaching braille are emphasized throughout the course.

Prerequisites: SPU 200

SPU 302CT: Adapting Materials and Methods of Instruction and Eval. for Teaching Students with Vis. Impairments

This course provides strategies for teaching and adapting materials and instruction in content areas, communication skills (i.e., reading and writing Braille, reading and writing print with and without low vision devices, finger spelling), listening skills, use of technology, independent and daily living skills, habilitation, career/vocational concerns, physical education, transition from the educational setting, and leisure and recreation for students with visual impairments, including multiple disabilities and deafblindness. The course provides a theoretical framework for the concept of teacher as lifelong learner, assessment strategies for learning medium and reading medium, writing IEP's, and research applications.

Prerequisites: SPU 300

SPU 313: Assessment and Instructional Methods for Secondary Students with Disabilities

This course is an in-depth study of assessment and instructional planning of secondary-level students with disabilities. Teacher candidates will explore the use of diagnostics, benchmark, formative, and summative assessments in screening, prereferral, classification process, and instructional programming. Emphasis will be placed on the direct relationship between effective assessment and evidence based instructional practices for special needs learners in the secondary classroom. Teacher candidates will explore assessment bias and teaching to the needs of diverse populations of students.

Prerequisites: SPU 201 or permission of instructor.

SPU 314: Effective Instructional Strategies for Students with Disabilities in Inclusive Settings

This course addresses the knowledge base and skills necessary for general education teachers to successfully include students with disabilities into their classrooms. Emphasis is placed on structuring inclusive environments and designing and implementing appropriate accommodations for elementary and secondary students possessing specific disabilities.

Prerequisites: SPU 201

SPU 315: Building Collaborative Networks to Support Secondary Students w/ Disabilities in Inclusive Classroom

This course addresses the knowledge base and skills necessary for ALL teachers to successfully include ALL students (e.g. ELL, CLD, non-disabled, special needs) into their classrooms. Emphasis is placed on structuring inclusive environments and designing and implementing appropriate accommodations for ALL students within content specific classes. The focus of the course will be on professional collaboration, home-school collaboration, universal design for learning, access to the general education curriculum, and assistive technology.

Prerequisites: SPU 201 or permission of instructor.

SPU 316WI: Literacy Development and Instruction in Core and Intervention Areas

This course is an in depth study in the teaching of literacy for struggling readers and special education students. The course will present characteristics and factors contributing to struggling readers. Pre-referral guidelines of federal and state laws will be discussed, including RTI, scientifically research-based and evidence-based instruction, and on-going progress monitor of student performance. The sequence of language, reading, and writing skills will be described as these areas pose challenges for student with disabilities. An emphasis on instructional tools, guidelines for instruction, organizational and teaching strategies, remedial methods and techniques for the child with a disability in preschool through secondary education will be introduced in this course.

Prerequisites: SPU 201

SPU 317: Intensive Reading, Writing, and Mathematics Intervention Approaches

This course presents an in-depth study in the teaching of reading, math, and written expression to students with disabilities. The course will present formal and informal assessments tools used to design effective individualized intervention. A variety of intensive teaching and learning strategies and resources will be used to address specific targeted skill needs. These strategies and resources will be integrated into daily instructional plans and/or used as a replacement academic resource. An emphasis on instructional tools, guidelines for instruction, organizational and teaching strategies, remedial methods and techniques for the child with a disability in preschool through secondary education will be introduced in this course.

Prerequisites: SPU 316

SPU 318: Assessment and Instructional Methods for Students with Disabilities

This course is an in-depth study of the purposes of atypical classes, curricular content and its organization, formal and informal assessment techniques, classroom management and the various methods of teaching the atypical child. The course will expose teacher candidates to informal and formal assessment, instructional delivery methodology and remediation strategies for the PreK-8 learner.

Prerequisites: SPU 201

SPU 320CT: Special Education Processes and IEP Development

This course addresses aligning IEPs for students with disabilities with the general education academic standards. Using the Pennsylvania Department of Education standards Aligned Systems, teacher candidates learn to develop IEPs that provide access to the general education curriculum for students with disabilities. Emphasis will be on the conceptual framework (Understanding by Design), specially designed instruction, on-going progress monitoring, and data based decision-making.

Prerequisites: SPU 318

SPU 322: Teaching Students with High Incidence Disabilities

This course provides information related to systematic strategic academic planning for students with mild disabilities (i.e., specific learning disabilities, mild mental retardation, mild behavior disorders). Students will be introduced to definitions, etiologies, formative assessments, and evidence based practices for these high incidence populations. High incidence disabilities will be viewed across the life span, requiring persistent educational support.

Prerequisites: SPU 318

SPU 327: Transition, Self-Determination, and Self- Advocacy for Adolescents and Adults with Disabilities

This course introduces pre-service professionals to the specific educational, daily living, and employment needs of adolescents and adults with disabilities. Pre-service professionals examine the historical and legal basis for providing people with disabilities with opportunities to lead independent lives and realize educational, vocational, and personal goals. Course content includes employment, and residential issues, post-secondary education, self-determination and choice-making, and adult life issues.

Prerequisites: SPU 201 or permission of instructor.

SPU 328: Positive Behavioral Intervention and Supports

This course will provide teacher candidates with the knowledge of alternative management techniques appropriate for facilitating learning in classrooms, within families, and in other environments. Included will be a study of characteristics, assessment procedures, and multidisciplinary services designed to support the K-12 learner with special needs.

Prerequisites: SPU 101

SPU 330: Teaching Students with Low Incidence Disabilities

This course will address medical, physical, psychological and educational aspects of students with low incidence disabilities. The major focus of this course will be teaching students with moderate or severe retardation, severe behavior disorders, including any of the Autistic spectrum disorders. Included will be an examination of evidence based strategies relevant to the education, training, and habilitation of students with low incidence disabilities. Low incidence disabilities will be viewed across the life span, requiring persistent support.

Prerequisites: SPU 318

SPU 380: Independent Study

Qualified students will be permitted to conduct independent investigations, under supervision, in specific areas.

SPU 381: Internship in Special Education

This course is designed to provide the student with educational opportunities outside the normal academic program which cannot be gained through the more traditional course structure. By serving as apprentices, interns, aides, or assistants in a variety of settings ranging from public institutions to private industries, businesses, the student will be able to augment and extend his or her educational experiences to achieve specific personal AND professional career objectives. Minimum of two hours for each academic credit hour. May be repeated for up to 6 credits.

Prerequisites: Must have 90 credits completed

SPU 390: Clinical Experience and Practicum: Visual Impairment I

This course provides for observation and participation in the performance of the duties of a teacher of students with visual impairments, including those with multiple disabilities in an itinerant, residential, or day school setting. Practicum sessions provide for an opportunity to discuss problems, trends and issues, multi-cultural needs, interviewing techniques, scheduling, lifelong learner model for teachers and students, and organizational skills unique to the field.

Prerequisites: SPU 302

SPU 391: Clinical Experience and Practicum: Visual Impairment II

This course provides for observation and participation in the performance of the duties of a teacher of students with visual impairments, including those with multiple disabilities in an itinerant, residential, or day school setting. Practicum sessions provide for an opportunity to discuss problems, trends and issues, multi-cultural needs, interviewing techniques, scheduling, lifelong learner model for teachers and students, and organizational skills unique to the field.

Prerequisites: SPU 302

SPU 392: Clinical Experience and Practicum: Mentally/Physically Handicapped I

An opportunity is provided for observation and student teaching with special populations. Discussion periods are provided for classification techniques, methods and approaches.

Prerequisites: SPU 320

SPU 393: Clinical Experience and Practicum: Mentally/Physically Handicapped II

An opportunity is provided for observation and student teaching with special populations. Discussion periods are provided for classification techniques, methods and approaches.

Prerequisites: SPU 320

SPU 433: Characteristics and Etiology of Autism Spectrum Disorders

This course covers the characteristics of autism and other related disorders, commonly referred to as Autism Spectrum Disorders (ASD) including; communications deficits, social skills, stereotypical behaviors, and typical responses to stimuli. Additionally, theoretical and scientific etiologies are discussed with various diagnostic instruments and procedures. Cultural perspectives of autism and related disorders with their relationships to educational services are also addressed.

Prerequisites: Permission of Instructor

SPU 434: Applied Behavior Analysis

This course introduces principles of applied behavior analysis (ABA) and how it can serve individuals with autism, with special attention given to classroom settings. ABA coverage includes; reinforcement, punishment, thinning, stimulus control, prompting, fading, generalization, maintenance, and data collection with analysis. Specific empirical-based ABA methods such as discrete training, direct instruction, and verbal behavior will be discussed.

Prerequisites: Permission of Instructor

SPU 435: Assessment and Instructional Intervention for Individuals with Autism Spectrum Disorders

This course examines instructional strategies that have been shown to be effective in promoting the development of communication and social skills by students with ASD. Augmentative and alternative communications systems (AAC) and approaches for teaching social skills in home, school, and community environments along with coordination of services and advocating for students with Autism Spectrum Disorders will be discussed.

Prerequisites: Permission of Instructor

SPU 436: Practicum with Students with ASD: Collaboration with Families, Agencies, and the Community

An opportunity is provided for observation and for student teaching of students with autism spectrum disorders (ASD). Discussion periods are provided for classification of techniques, methods, and approaches.

Prerequisites: Permission of Instructor

Sport**SPT 111: The American Woman in Sport**

The course will focus upon physical and social-psychological factors which affect the performance of women in a variety of sport forms. Consideration will be given to recent legislation which has helped to define women's participation in the world of athletics.

SPT 120: Personal Nutrition

This course is intended to present the science of nutrition in a personal way to all students regardless of major. The aim of the course is to help individuals focus on their own eating practices and to evaluate their habits in keeping with guidelines that support good health.

SPT 145: Lifeguard Training

This course is designed to provide the student who possesses good swimming skills with the knowledge and skills necessary to keep the patrons of aquatic facilities safe in and around the water. The course content and activities prepare students to recognize emergencies, respond quickly and effectively to emergencies, and prevent drownings and other incidents. On successful completion of the course, participants receive two certificates: one for American Red Cross Lifeguard Training and a second for American Red Cross CPR for the Professional Rescuer. Students must be prepared to demonstrate swimming proficiency during the first class meeting. This course does not satisfy the physical education requirement.

SPT 160: Introduction to Sports Management

This course is designed to provide an introduction to the field of sports management. Additionally, it is intended to provide a theoretical foundation and experiential opportunities for development and refinement of basic "process" competencies necessary for successful planning and implementation of sport and recreational activities. Emphasis will be given to the basic operational competencies of successful event and venue operations.

SPT 195QL: Accounting Survey for Leisure and Sport Studies

This course is designed to provide a basic understanding of Accounting and other related financial issues that may be encountered by students entering the sport/recreation field. Students will be shown why a knowledge of basic Accounting concepts is a critical component of all sport/recreation related industries. Students will be expected to demonstrate how financial information is gathered, recorded and used in the decision making processes. This course is not acceptable for Business majors.
Prerequisites: PED 160 or permission of instructor.

SPT 201: Scientific Basis for Human Movement

This course is designed to provide students with an overview of the scientific approaches used to study human movement and a working knowledge of the terminology that is used in each discipline. Knowledge of the research and theoretical perspectives in these disciplines will provide students with the foundation on which a broad based knowledge of the science of human movement can be built.

SPT 205: Sport Behavior

This course is designed to introduce students to the behavioral, affective, and cognitive components of sport psychology. Research findings in the context of applied, educational and experimental sports psychology will be presented and discussed.

SPT 212CM: Sport Public Relations and Communication

This course is designed as an introductory class to provide a general overview of public relations and communication in the sport industry. The course will examine and discuss concepts directly related to sport management. In addition, students will further explore issues and problems found in sport public relations and communications.

Prerequisites: SPT (PED) 160 or permission of instructor.

SPT 216: Exercise Physiology

This course is designed to provide an in-depth analysis of the effects of physical activity upon the structure and function of various organ systems. Application of theoretical concepts to physical performance enhancement and clinical rehabilitation will be emphasized.

Prerequisites: SPT (PED) 201

SPT 222: Fundamentals of Coaching

This class will give students a foundation on which to build a deeper understanding of the coaching profession. The focus of the class will be the application of sport sciences, sport pedagogy, sport management and sport first aid as they relate to coaching. In addition, two National Federation Interscholastic Coaching Certifications may be earned in Coaching Principles and Sport First Aid by meeting course requirements and achieving an 80% on the American Sport Education Program Examinations.

SPT 226: History of Sport

The course is designed to provide a historical overview of recreational and physical education philosophy and practice and sporting activity. Emphasis is given to historical, multi-cultural approaches toward sport and investigates their contributions to current attitudes and practices and the etiology of modern participatory and spectator sports. Topical areas will include, but are not limited to, the Greek "Ideal," Ancient Olympic Games, "The Turner" Movement, "Muscular Christianity," Sport of Native Americans, Influences of English Immigrants, Women's Emancipation and Participatory Sport, Afro-American Influences, The Modern Olympic Games, Evolution of the NCAA and Intercollegiate Sport and Contemporary Issues.

SPT 230: Leadership and Team Building in Sport

This course is designed to provide students with the methods and skills of leadership and team building, which will enhance all areas of sport and business management. Students will receive instruction in various components and essentials of high-performance teams. The course will provide students with the opportunity to plan, present and experience strategies for creating a culture of teamwork, methods for team building and conflict resolution. Skills and information necessary to stay current with the trends in the field of leadership, collaboration and building a supportive work environment will be emphasized.

Prerequisites: SPT (PED) 160 or permission of instructor.

SPT 236: Personal Selling in Sport

This course is designed to produce skills essential to personal sales positions in the areas of sport management. The course will introduce students to the discipline of personal selling by covering the principles underlying the basic sales process, theory and practices, methods, and techniques. In addition, students will further explore ethical and legal considerations in personal selling.

SPT 240: Foundations of Health Promotion

This course is designed to explore the historical foundation of, rationale for and current components of community and organizational health promotion programming.

Prerequisites: HEA 102

SPT 250: Methods of Group Fitness Instruction

This course is designed to provide future fitness professionals with methods, content knowledge, practical experience and pedagogy skills needed to design and implement safe group exercise classes. The students will learn to enhance the value of the fitness activities they offer clients leading to greater career success. In addition, information regarding physical activity and special populations related to cardiac conditioning, diabetes, seniors and pregnancy will be emphasized.

SPT 260: Principles of Sport Finance

This course examines the financial tools that sport managers use to run their sport businesses. As such, it explores traditional and innovative methods of revenue acquisition and financial management in sports organizations, the financial business structure of sports organizations, and the financial planning and forecasting processes that make organizations effective. Various other aspects of finance are discussed as they relate to sports organizations, including the time value of money, capital structuring, stocks and bonds, inventory management, and taxation.

Prerequisites: SPT160, SPT195/PRO120 or permission of the department chairperson.

SPT 265: Governance and Organization in Sports

This course is designed to address the structure and strategies of sport organizations and their effectiveness. It provides information to facilitate organizational change, to enhance leadership style, and to improve management decisions and organizational effectiveness. Special attention is devoted to the role that sport governing bodies play in delivering services to consumers.

Prerequisites: SPT (PED) 160 or permission of instructor.

SPT 270: Sport And Society

This course is designed to explore the sociological aspects of sport. Students will study research and theory used to explain the relationship between sport and society in the areas of socialization, children, deviance, violence, gender, race, social class, economy, media, politics, religion and future trends in sports.

Prerequisites: PED 160 or permission of instructor.

SPT 276QL: Statistics in Sport

This course will introduce students to the basic principles of statistics. A special emphasis will be placed upon the fundamental concepts and theories of statistics unique to sport. Students will be exposed to descriptive and inferential statistics enabling them to apply knowledge in their professions.

Prerequisites: MAT 17 or higher

SPT 285: Sport Marketing and Sponsorship

This course is designed to address the various techniques and strategies used in meeting the needs and wants of sport consumers. It also focuses on how sport can be used to assist in the marketing of other companies and products. Special attention is devoted to the uniqueness of sport marketing in comparison to traditional marketing, the importance of market research in identifying and segmenting sport consumers, and the development of sponsorship programs.

Prerequisites: PED 160 or permission of instructor.

SPT 290WI: Fundamentals of Sports Law

This course is designed to introduce students to a variety of legal principles associated with leisure and sports and to expand their legal knowledge to the leisure and sports industry. Relevant areas of law will be examined through case study. Discussions on current legal issues and topics in the recreation and sport industry will constitute a significant portion of the class.

Prerequisites: SPT (PED) 160 or permission of instructor.

SPT 300: Applied Sport Psychology

This is designed to build on the psychology components introduced in SPT 205 Sport Behavior. Research findings in the context of applied sports psychology will be presented and discussed, and coupled with students developing procedures for applying sport psychology techniques.

Prerequisites: SPT 205 or permission of the department chairperson

SPT 305: Emergency Care and Risk Management

This course will introduce the student to the principles of emergency care and risk management. The focus of the course will be on the preventive planning and skill development necessary to anticipate and respond to potential risks within the student's professional interest area, major, or personal life.

Prerequisites: SPT (PED) 160 or permission of instructor.

SPT 310: Fitness Assessment and Exercise Programming

This is designed to provide students with the opportunity to develop a solid understanding of assessment, programming and evaluation of health-related physical fitness components. Analysis of various health and fitness assessment tools including those employed to evaluate aerobic fitness, muscular strength, muscular endurance, flexibility, and body composition will be examined. Emphasis will be on developing baseline assessments for use in fitness program development in variable populations. Practical experience in fitness and wellness programming will be an integral part of this course.

Prerequisites: SPT (PED) 201 or permission of the instructor

SPT 312: Intercollegiate Athletic Administration

This course is designed to further enhance students' knowledge of the administrative and management aspects of intercollegiate athletics programs, with a particular emphasis on the National Collegiate Athletic Association (NCAA). Additionally, this class will analyze current issues in intercollegiate athletics for their relevance to athletics management theory and practice.

Prerequisites: SPT 160 and a minimum of 45 credits completed or permission of the department chairperson

SPT 315: Prevention and Care of Athletic Injuries

The various types of injuries that occur in athletics are discussed with regard to causative factors, frequency, location and relationship to specific sports. Preventive techniques, treatment, procedures and rehabilitative programs are discussed, demonstrated and practiced. All aspects of prevention and care of athletic injuries are investigated.

SPT 320CT: Sport Ethics

This course examines ethical theory and moral deliberation as applied to athletics, sport, and sport industries. Through critical analysis and personal reflection of relevant scenarios and case studies, students will develop and refine their personal value system as it applies to sport and athletics.

SPT 325: Sport Consumerism

This course is designed to introduce theories in sport consumer behavior and the analytic techniques used to answer a variety of questions about sport consumers. Special attention is devoted to the practical application of these theories and contemporary issues and problems found in the sport and leisure field.

Prerequisites: PED 160 & PED 285, or approval of the instructor.

SPT 330WI: Event and Facility Management

This course is designed to provide "product-oriented" experiential opportunities for in-depth development and refinement of operational skills needed to successfully complete a capstone internship experience and to succeed in entry level event and facility management career opportunities.

Prerequisites: SPT (PED) 160 or permission of instructor.

SPT 335: Methods and Evaluation In Athletics

This course is designed to provide students with an in-depth study and application of skills necessary for coaches and athletic/sport administrators. Students will examine instructional strategies, skill and tactical analyses, organization and administration, evaluation techniques and management strategies of athletic programs.

Prerequisites: SPT (PED) 222 or permission of the instructor.

SPT 340: Coaching Internship

This course is designed to provide students with a practical coaching field experience under the supervision of a school or community professional. Students will apply their knowledge and skills of coaching while working with a sport team for a minimum of sixty hours. An in-depth coaching research project which encompasses practical, theoretical and methodological principles and analyses of sport is required.

Prerequisites: SPT 222 with a grade of "C" or better or permission of the instructor.

SPT 345CD: Sports in the Global Marketplace

This course is designed to address the magnitude of global expansion and development of sports. It provides an introduction to business opportunities and barriers in the global marketplace. Special attention is devoted to contrasting the US sport industry with international markets. The topics address major social, cultural, ethical, and business issues facing international sport business.

Prerequisites: PED 160 & PED 285, or approval of the instructor.

SPT 350: Internship In Sport Management

This course is designed to provide a capstone sport/recreation field experience. Students will apply and refine knowledge and skills requisite to entry-level event and facility operations while participating in the activities of an established professional organization. May be repeated for up to 12 credits.

Prerequisites: PED 160, PED 280, and senior status.

SPT 366: Personal Fitness Trainer

This course is intended to prepare the student with knowledge and skills basic to the field of personal fitness training. Areas of educational development will include basic human anatomy, physiology, risk management, legal liability, fitness program development and evaluation. A student who successfully completes this training, combined certifications in CPR and First Aid, will be positioned to participate in a certification exam that may lead to the acquisition of a certificate in Personal Fitness Training. This course includes an entrepreneurial focus.

SPT 372: Selected Topics in Leisure and Sport Studies

This course provides students with an opportunity for in-depth study of topics of current interest in the field of Leisure and Sport Studies. The format for the course will vary to best address educational goals as they relate to the selected topic. Students may register for this course more than one time, up to a maximum of six semester hours or credits, provided the same topic is not repeated. Prerequisite: Any combination of four (4) three-credit PED courses with a course prefix number of 100 or higher or permission of the instructor.

SPT 375: Research Methods for Sports Management

This course is designed to assist students in becoming thoughtful professionals who understand the purpose and value of academic research, in developing knowledge of conceptual foundations and methodological tools of quantitative and qualitative research, and in applying these skills to the field of sport management.

Prerequisites: Senior status (90 credits above) or approval of the course instructor.

SPT 380: Independent Study in Sport Management

Independent Study provides an opportunity for individuals to pursue scholarly activity in an area pertinent to the discipline of Sport Management not covered within a regularly offered undergraduate course in Sport Management. Credit for the course may be scheduled for one to three semester hours in a single semester for no more than three credits of independent study overall. Permission of the faculty member instructing the independent study as well as that of the departmental chair of the degree program or certification area is required.

Prerequisites: By permission of the department

SPT 385: Senior Seminar in Coaching and Athletic Administration

This capstone course provides an opportunity for senior coaching and athletic administration Leisure and Sport Studies majors to critically examine selected, significant issues and problems within their discipline, and enhance professional development skills necessary for success in the workplace. This required course should be taken during the school year of expected graduation.

Prerequisites: HEA 105, PED 201, PED 205, PED 222, PED 235 or permission of the instructor.

Prerequisites: SPT (PED) 222 or permission of the instructor.

SPT 395: Honors Independent Study/Thesis

Honors Independent Study/Thesis.

Theatre

THE 15: Introduction to Theatre

An orientation to the organic nature of the theatre, studying such elements as architecture, stage design, lighting, costume, makeup, acting, and direction. * THE 015 may be taken concurrently with THE 031, but is a prerequisite for all other theatre courses except THE 195.

THE 31CM: Introduction To Acting

Acting theory and skills, with primary emphasis on Stanislavski-based techniques, are explored through exercises and improvisations, reading, outside play attendance, writing assignments, and performances. Skills presented and developed include awareness, concentration, imagination, discipline, sense memory, emotional truth, choices, physical/vocal expressiveness, and ensemble. COREQUISITE: THE 015.

Prerequisites: THE 15

THE 195: Theatre Practicum

The study, through preparation and performance, of the processes and skills necessary for theatrical production. These include, but are not limited to acting, directing, costuming, makeup, construction, lighting, and management. This course is open to all students. BFA Related Arts Theatre students and BA Theatre students must accumulate 3 credits of Theatre Practicum as part of their degree requirements. No prerequisite. Offered each semester. May be repeated to a cumulative total of 3 credits.

THE 205: Costuming For The Stage

The study of designing and constructing a costume appropriate not only to the character wearing it, but also to the style and the period of the play itself. Topics will include play analysis for costume design requirements, materials needed, estimated cost, drawing patterns, history of costumes, use of the sewing machines, and costume shop safety. Students will be required to take primary responsibilities in costuming areas (designing and construction) for a current production.

Prerequisites: THE 15 and THE 140 or Permission of the Instructor

THE 206: Costume Crafts

This course focuses on the creative design process and the practical application of skills needed in the development and execution of costume crafts. Emphasis will be placed on corset-making, painting and dyeing of fabrics, embellishment procedures, millinery techniques, and the construction of costume accessory pieces.

Prerequisites: THE 205 or Permission of the Instructor

THE 210: Production and Performance for Young Audiences

Experience in preparing and performing dramatic scripts for young theatre audiences is the focus of this course. Selecting, adapting, and mounting manageable productions, analyzing the needs of the audience, and choosing styles of performance consistent with the material provide students with practical application of theory.

Prerequisites: THE 15

THE 311: Asian Theatre and Drama

A historical, literary, and production study of the major periods, genres, techniques, and playwrights of Asian theatrical forms (drama, puppetry, dance, and opera) with particular emphasis on the theatres of India, China, and Japan. English translations of representative plays will be read.

Prerequisites: THE 15

THE 321: History of the Theatre A

A comprehensive survey of the history of stage architecture, literature, styles and methods of production essential to the actor, director and playwright. This course covers two semesters, taken separately or in either order. (321) Development of Theatre from Primitive Times Through the Restoration Period. (322) Development of Theatre from the Restoration to the Present.

Prerequisites: THE 15

THE 322: History of the Theatre B

A comprehensive survey of the history of stage architecture, literature, styles and methods of production essential to the actor, director and playwright. This course covers two semesters, taken separately or in either order. (321) Development of Theatre from Primitive Times Through the Restoration Period. (322) Development of Theatre from the Restoration to the Present.

Prerequisites: THE 15

THE 324: Great Moments in American Theatre

A journey into the realm of American drama and theatre; a view of American society as depicted upon the stage. Styles of acting and methods of scene design and production will be stressed.

Prerequisites: THE 15

THE 330: Dramatic Theory and Criticism

The focus of the course is the study of major theories of dramatic criticism. Beginning with Aristotle's Poetics, and classical theory, the course will provide an historical overview of selected dramatic theories and critics through to the present.

Prerequisites: THE 15

THE 333: Theatre History I: Ancient European

A comprehensive study of the history of stage architecture, literature, styles, theory, criticism, and production methods. This course covers Ancient Greek, Roman, and Medieval Theatre. Representative dramas will be read in translation.

Prerequisites: Theatre 203 and Junior status.

THE 341: Intermediate Directing

This course is designed to develop depth and breadth of techniques introduced in Fundamentals of Directing while introducing more advanced skills. Emphasis will be placed on play, scene, and character analysis; communicating with actors and design personnel; and non-proscenium arch staging techniques for the thrust and arena stages. Practical scene work will be drawn from a variety of periods and styles including pre-realistic dramatic literature.

Prerequisites: Junior/senior status theatre majors

THE 380: Senior Seminar: Issues from Dramatic/Rhetorical Perspectives

Required of all Seniors majoring in Speech Communication and Theatre, the course consists of a weekly three-hour session in which the students will prepare and discuss contemporary issues related to their individual field of study, and present a series of "position papers" for Departmental evaluation.

University Studies**UST 1: University Studies: The First Year Seminar**

University Studies: The First-Year Seminar introduces students to the critical strategies, resources, and responsibilities of a university education. The course employs substantive reading, writing, and critical thinking assignments from across the curriculum, in addition to research and fieldwork, to increase the student's ability to effectively function in the University community. The common course requirements for each UST section are the same, though the specific focus of each individual seminar may differ.

UST 15: First Year Seminar: University Studies

The Department of Advisement First-Year Seminar introduces first-semester first-year students assigned to a program in the Department of Advisement to the critical strategies, resources, and responsibilities of a university student. The seminar will build the students' foundation knowledge and understanding of what it means to be a college student, utilize resources and develop skills for success, and make wise, informed decisions in planning for a future career. Toward this end, the students enrolled in this course will participate in a number of relevant experiences that facilitate and strengthen their personal appreciation and intellectual understanding of their role as a student at the University and the support available to them to ensure their success. This course will meet twice a week for 8 weeks for 50 minutes per session. This will give the students all of the information they need up front so they will be fully prepared by the second half of the semester. Students will continue to have contact with the instructors as their advisees. Students will receive a letter grade for this course. Please note that the proposed UST 015 is not to be used as a repeat of UST 001, and it may not be taken if a student has already taken another first-year seminar (e.g. BUS 001, EDU 015, VPA ***)

UST 100: Prior Learning Assessment and Portfolio Development Seminar

This course guides students in developing a written portfolio which demonstrates documented college-level learning through experience in various fields. During the seminar, students will analyze experiences, skills, and knowledge they have gained and present this learning clearly and concisely through writing and the organization of appropriate documentation. Students will learn to assess and communicate clearly, as well as to plan the course of their learning, confirm or choose their majors, and develop goals for their professional futures. Skills for enhancing communication and critical thinking and utilizing professional resources will be emphasized, along with development of a resume and professional portfolio. The purpose of the completed portfolio is to connect prior learning to the learning objectives of courses in academic programs in order to earn credit for college-level learning completed outside the classroom.

Women's and Gender Studies

WGS 10: Introduction to Women's Studies

This course introduces students to the fundamental issues that affect women's lives by focusing on the socially constructed definitions of women and women's roles. Specific attention will be given to women's experiences vis-a-vis family, work, education, health, and the legal system. While the primary focus will be how gender hierarchies and biases affect diverse American women, the course will also examine how these issues affect the lives of women in other cultures. The course will include readings, writing assignments, lectures, discussions, and guest presenters.

WGS 16: Core to the Cosmos: Contributions of Women to Astronomy

From the edge of the cosmos to the cores of planets, the scientific discoveries of women shape our understanding of space. Using the perspective of influential women in astronomy, the course explores major astronomical and planetary science discoveries, such as the expansion of the universe, life cycles of stars, formation of the solar system, and the structure of the Earth as well as their role in space exploration and science missions. This course does not satisfy major, concomitant, or specialization requirements for Secondary Education and/or Liberal Arts Science majors or count toward major GPA for Physics majors.

Prerequisites: This course does not satisfy major, concomitant, or specialization requirement for Secondary Education and/or Liberal Science majors or count toward major GPA for Physics majors.

WGS 45: Women In Mathematics

This course examines women and minorities who have made significant contributions to the field of mathematics. Both their lives and their work will be explored as well as gender and multicultural issues surrounding their endeavors. Furthermore, mathematical topics related to their contributions will be discussed.

WGS 67: Self Defense for Women

This course is clearly a Women's Studies course since the central focus is the development of skills and knowledge relative to women's ability to function effectively in an increasingly violent environment.

WGS 130: Interpersonal Communication

This course is an introduction to the theory and practice of interpersonal communication. It is designed to create an increased awareness and application of the concepts, skills, and strategies that are important to enable students to become interpersonally competent communicators in their personal and professional relationships.

WGS 209CDWI: Women in Music

This course will examine the contributions of women as composers, performers and conductors of music from the Middle Ages through the twentieth century. Focus will remain mainly on the roles of women in the sphere of classical music, although some jazz and popular music will be included. Class is limited to 25 students. (This course is also offered under the WST 209 designation.)

WGS 211CDVL: Women in the Arts

This course will provide an overview of women's creative achievements, experiences and status in the visual arts. The focus of this course is on gender; however, issues relating to the intersections of gender with race, class, national origin, ethnicity, age, and sexual orientation will also be discussed. As well, the course will explore the portrayal of women and the way in which cultural definitions of gender shape women's aesthetic expression.

WGS 217CD: LGBTQ Studies

The purpose of the course is to introduce students to Lesbian, Gay, Bisexual, transgender, and Queer (LGBTQ) Studies. It will trace the conceptual distinctions drawn between sex, gender, and sexuality, as well as the history of diverse genders and sexualities. It will also examine contemporary issues facing LGBTQ individuals and communities. Emphasis is placed on feminist and social constructionist approaches to studying LGBTQ issues.

WGS 228: Women in Education

Women's changing roles in education will be looked at from the perspectives of a student, a teacher, and an administrator. Women's impact and contributions to education at all levels of education will be examined. The role of the institution and the current status of women at all levels of education will be a major focus.

Prerequisites: College of Education majors only

WGS 237: Women Writers in Performance

This course is designed to use performance theory and process to analyze significant literary works and key themes in women's writing. Students will use performance theory, feminist theory, and post-modern theory to engage with texts from women writers from diverse cultural and historical backgrounds. We will accomplish this through close readings, class discussions, performance workshops, and performances of texts by female authors.

WGS 246CDCT: Feminist Film Theory

In this course, students will investigate the intersections of feminist film theory and representations of women's experience in international film, as well as explore feminist film practices within the narrative, documentary and avant-garde traditions. (This course is also offered under the WST 246 designation.)

Prerequisites: ENG23, ENG24 or ENG25

WGS 248CDCM: Nonverbal Communication

Students will explore some facets, principles, implications, and effects of non-verbal communication. The course will focus on non-verbal codes such as kinesics (body movement), paralanguage (vocalic communication), facial expressions and eye movement, proxemics (space), haptics (touch), and chronemics (time), and artifacts (including art and architecture but also jewelry, clothing, hairstyles, and body modification). Student presentations will highlight how communication is a "package" of symbols.

WGS 250: Women and Leadership

This course will focus on stimulating critical thinking about women and leadership and encourage a re-examination of the historical and contemporary beliefs about women and leadership. The learner will have an opportunity to examine one's own leadership behaviors as the interaction of leadership, gender, context and culture within a context of historical foundations as well as contemporary research will be examined. This course meets criteria set forth for General Education Goals #7 (globalization) and #9 (diversity).

WGS 251: Women, Money And Power

Gender is a significant construct through which societies structure and define themselves. This course uses a gender lens to examine money, finance, taxation, public policy and the social contract. Particular attention is paid to women's experience with financial literacy, financial responsibilities, public policies, and contemporary barriers to full economic security for women and families in our society. Policy and personal strategies for asset building also will be addressed.

WGS 271: Sexualities and Communication in Everyday Life

This course is an introduction to the study of sexualities and communication in everyday life. The course is designed to develop a student's ability to think critically about and analyze issues of sexualities in multiple theoretical-and often overlapping-perspectives used by scholars to explore and understand sexualities in the broad field of communication.

Prerequisites: COM (SPE) 10

WGS 272: Women and Violence in Contemporary World Texts

This course will investigate the complex relationship women around the world have with violence. Though formerly only regarded as those in need of protection, women who perpetrate violence have forced a shift in gender roles ascribed to violence. Looking at written and visual texts that depict women as both victims/survivors and perpetrators of violence will allow students to discuss the ways women's shifting role in violent movements and in texts has changed both the gender ideology and the political climate in a rapidly globalizing world. This course work will look at the ways women's relationship to violence is constructed and question ideas that women are "naturally" non-violent.

While this course does not condone the use of violence, it does study ways women use violent tactics to resist oppression, enact revenge, and find a voice.

Prerequisites: ENG23, ENG24 or ENG25

WGS 274CDWI: Women, Writing and Rhetoric

While the spoken and written word have long been studied for their rhetorical intent and success, this study has been conducted primarily through a male lens. As such, womens contributions to rhetoric throughout history, like so many other aspects of womens experience, have yet to be fully explored. Women, Writing, and Rhetoric seeks to expand the study of rhetoric with a multi-layered consideration of how rhetoric has been informed by, and informs, a female consciousness. This is an elective course for English majors, Womens Studies minors, and those seeking a concentration in Composition, Rhetoric, and Literacy Studies.

Prerequisites: ENG23, ENG24 or ENG25

WGS 276CDWI: Nineteenth Century Women's Literature

This course covers selected literary texts by nineteenth-century British and American women writers. It also focuses upon gender-specific conflicts and changing perceptions about the nature, roles, and rights of women during this important era in the history of literature by women.

Prerequisites: ENG23, ENG24 or ENG25

WGS 278: Women Writers Around the World

The focus of this course is modern and contemporary literature by women around the world. Students will read selected fiction, non-fiction and poetry, and examine these works primarily, but not exclusively, from the perspectives of Feminist Critical Theory.

Prerequisites: ENG23, ENG24 or ENG25

WGS 279: U.S. and Canadian Women Writers

This course explores some of the major U.S. and Canadian women writers from approximately 1880 to the present. Taking a multi-genre and multi-critical approach, students will study the important contributions U.S. and Canadian women authors have made and are making to modern and contemporary literature. This course is suitable for both majors and non-majors.

Prerequisites: ENG23, ENG24 or ENG25

WGS 310: Seminar in Women's Studies

This course will provide the requisite structure to assist advanced students to integrate the multi-disciplinary courses of a Women's Studies minor. Students will read, discuss, debate and write about current research and scholarship on women which will be selected to synthesize their understandings of gender issues in a complex world. Topics will also be selected to support the students' major areas of study and career goals. The course may be team-taught or taught by a faculty member in cooperation with guest specialists.

Prerequisites: WST 10

WGS 285: Gender Communication

This course provides a study of gender as it influences verbal and nonverbal communication, and shows how gender communication impacts the lives and experiences of women and men. The course will explore multiple ways communication in schools, family, media and society in general creates and perpetuates gender roles.

Prerequisites: COM 130 (SPE 130)

WGS 316: Law and Sex-Based Discrimination

An extensive examination of the constitutional and legal bases of sex-based discrimination in the United States. The course will focus specifically on statutory law and judicial decisions relating to discrimination of both men and women.

WGS 318CTVL: Picturing Gender

This course investigates the role of art in shaping a culture's understanding of gender. Drawing upon themes from a variety of historical eras from the ancient world through the 19th century in Europe and the United States, it explores how art both reflects and moulds the understanding of gender roles as they are played out across the lifespan as well as range of sexual orientations. Topics pertaining to gender such as social class, power, spirituality, sexuality, work leisure, family life and age will be addressed.

Prerequisites: Take at least one of the following courses: ARH 24/124 or ARH 25/125 or ARH 26/126 or permission of the instructor.

WGS 323: Native American Women Writers

This course provides undergraduate students an introduction to selected Native American Women Writers across several genres. Students will experience a variety of writings which move across traditional boundaries (such as nonfiction, poetry, fiction, theory, activist, and so on). The course also provides students an opportunity to consider Indigenous Feminism in theory and practice. Students will consider issues of gender, identity, cross-cultural understanding, individuality and community by intellectually engaging with the texts and performances of Native American women.

This class may also include the opportunity for digital storytelling, blogging, interviewing, and community engagement.

Prerequisites: ENG23, ENG24 or ENG25

WGS 329: Feminist and Gender Theories

This course provides an overview of the leading currents, issues, and debates in feminist literary theory, including gendered voice, difference vs. equality feminism, essentialism, and queer theory. Students will read theoretical and literary selections from nineteenth-, twentieth-, and twenty-first century feminists.

Prerequisites: ENG23, ENG24 or ENG25

WGS 350CT: Leadership: A Communication Perspective

This course serves as an introduction to the study and practice of leadership from a communication perspective. To this end it explores communication variables involved when leaders attempt to influence members to achieve a goal. Particular focus will be on the relationship between communicating and leading. Topics include power, credibility, motivation, research on leadership traits, styles and situations, global leadership, ethics, and current models of leadership such as transformational, charismatic, and functional approaches.

Prerequisites: COM (SPE) 10

WGS 361: Introduction to Health Communication

This course is designed to introduce students to the field of health communication. It will explore health-related communication as it applies to the dissemination, interpretation, and impact of health-related messages. Students will learn about communication between health-providers and patients/clients, health education initiatives and campaigns, as well as communication dynamics in health organizations. Students will gain both knowledge and experience in the use of communication to promote individual and public health.

Prerequisites: COM (SPE) 10

WGS 370: Selected Topics in Women's Studies

This is a course for students who wish to deal with a specific women's issues topic or system in greater detail than current offerings permit. Topics will depend on needs and interests of students and faculty interest and expertise. May be taken a maximum of three (3) times.

WGS 380: Independent Study

This course is designed for students who wish to study a particular problem or selected topic in Women's Studies in depth with a qualified instructor. The student, in consultation with the designated instructor, will propose his/her program of study by defining the focus, setting objectives, and planning outcomes. Depending on the complexity or magnitude of the study, the student will be awarded one, two or three credits.

Prerequisites: WST 10

WGS 387: Family Communication

Family Communication is designed to introduce students to communication in the family setting. The overall goal is to help you understand how, through communication, we develop, maintain, enhance or disturb family relationships. The course will examine the role of communication as it relates to family identities, family roles, relational maintenance, intimacy, conflict, decision-making, family stress and well-being. Students will learn verbal and nonverbal skills that can promote healthy family communication. This course will potentially be an important beginning in assessing the communication skills, that are inherent in your own family.

Prerequisites: COM (SPE) 130 or with the permission of the instructor.

WGS 390: Internship in Women's Studies

Students with a Women's Studies Minor are provided with an opportunity to apply skills and knowledge gained in the minor to a supervised work experience in an agency concerned with women's issues. Junior or Senior standing and approval of The Women's Studies Director are required.

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