



LA ROCHE COLLEGE

Course Catalog 2009-2010



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La Roche College Course Catalogue 2009-2010

La Roche Academic Policies & Regulations

Academic Standing Classification of Students

At the end of each semester the Registrar classifies students according to the number of credit hours they have completed:

- A freshman is one who has completed fewer than 30 credits.
- A sophomore is one who has completed between 30 and 59 credits.
- A junior is one who has completed between 60 and 89 credits
- A senior is one who has completed 90 credits or more.
- A full-time student is one who is registered for 12 or more credit hours in a regular semester.
- A part-time student is one who is carrying less than 12 credit hours in a regular semester.
- A matriculated student is one who has satisfied all admission requirements for a degree program and is taking courses leading to a degree.
- A special student is one who is not pursuing a degree or certificate program at La Roche College. All special students are required to register each term through the Graduate Studies and Adult Education Office.

Dean's List

Each semester those full-time students (12 credits or more) who have earned a QPA of 3.500 or higher are placed on the dean's honor list. Part-time students who have accumulated 12 credits in consecutive semesters, including summer, and have earned a QPA of 3.500 or higher are placed on the dean's honor list.

Good Academic Standing

Students are in good academic standing at the college when their cumulative and semester quality point average is 2.000 or above.

Not In Good Academic Standing

Students are not in good academic standing at the college when their cumulative and/or semester quality point averages are below 2.000. Students not in good academic standing are required to work with a designated academic support advisor on strategies to enhance their academic performance. The Academic Standing Review Board carefully considers the individual circumstances of all students who are not in good standing and, at its discretion, may recommend that students not in good standing be subject to one of the following four categories of action: 1) Academic Warning; 2) Academic Probation; 3) Academic Suspension; or 4) Academic Dismissal.

Academic Warning

Students whose cumulative quality point averages (QPAs) are 2.000 or above but whose semester QPAs are below 2.000 may be placed on academic warning for the subsequent fall or spring semester.

Any student placed on academic warning is required to work with a designated support advisor on strategies to improve his or her academic performance.

Academic Probation

Full-time students whose cumulative quality point averages are below 2.000 (1.800 for freshmen), or who are subject to a second placement on academic warning, may be placed on academic probation for their subsequent fall or spring semester of enrollment. Part-time students who have accumulated 12 credits attempted and whose cumulative quality point averages fall below 2.000 (1.800 for freshman) may be placed on academic probation for their subsequent fall or spring semester of enrollment.

Any student placed on academic probation is required to work with a designated academic support advisor on strategies to enhance his or her academic performance. Any student placed on academic probation may be restricted to no more than 13 credits for his or her subsequent fall or spring semester of enrollment, and may be subject to other conditions as required by the academic support advisor or the Academic Standing Review Board.

Academic Suspension

Any full-time student whose semester quality point average is below 1.000 or who is subject to a second placement on academic probation may be immediately suspended from the college for the subsequent spring or fall semester. Suspension decisions are made by the Academic Standing Review Board. Students who have been suspended will be assigned an academic support advisor with whom they will work to accomplish the prescribed strategies necessary for their reinstatement. Reinstatement of any student who has been suspended will be at the discretion of the Academic Standing Review Board based on consideration of the student's written request for reinstatement and of the academic support advisor's recommendations. Students reinstated from a suspension will remain on academic probation during the semester of their re-enrollment.

Academic Dismissal

Students may be dismissed from the college if they are subject to placement on academic probation for two consecutive semesters or fail to make progress after reinstatement to the college from suspension. Dismissal decisions are recommended by the Academic Standing Review Board to the Vice President for Academic Affairs and Academic Dean. The Academic Standing Review Board will carefully consider the student's total academic record prior to making a recommendation to dismiss.

Appeal Policy and Procedure

Students may appeal an academic suspension or academic dismissal by submitting a letter to the Vice President for Academic Affairs and Academic Dean within ten days of receipt of notification.

Athletic Eligibility

La Roche College recognizes that the development of students is not solely one of academic growth and that other activities contribute to the achievement of the goals set by the college in carrying out its mission with students.

Participation in varsity sports serves as an important function for participating students and also serves as a method of public relations, recruitment of students, visibility for the college and retention of students.

It is understood that academic growth of students has the highest priority. It is also understood that the college's membership in intercollegiate conferences or associations requires commitment to certain standards shared with other member schools.

To show concern for and to assure that academic growth is not impeded by participation in varsity athletics, certain restrictions are placed on student participation. These restrictions are intended for the student's guidance and assistance just as restrictions on students in general are imposed when academic growth is not satisfactory.

Policy

No student will be permitted to participate in an intercollegiate sports program during the time that the student is ineligible according to the standards of the National Collegiate Athletic Association (NCAA) and La Roche College.

Athletic academic eligibility is defined as having a cumulative QPA of 1.800 in the student's first year (first two semesters) at La Roche College. Students must receive a cumulative QPA of 2.000 in the completion of the following six semesters. If a first year student earns a semester QPA of more than 1.500, but less than 1.800 in the first semester of attendance, that student may participate during the second semester under the following conditions:

1. The student, the academic advisor, the athletic director, and the coach agree to the participation.
2. The student carries no more than 12-13 credits in the semester.
3. A written contract is agreed to by the player, the academic advisor, and the coach, whereby the student adheres to a specific plan of study including regular involvement with the Academic Enrichment Center, tutoring if deemed advisable and continual reports and checks with instructors.
4. The contract so established will be filed with the athletic director prior to the first game of the new semester. Any student who is in his/her third through eighth semester and receives a semester QPA below 2.000 while still maintaining a cumulative QPA of 2.000 or above is athletically eligible to participate in intercollegiate athletics. In any case when a student-athlete is brought to the Academic Standards Review Board at La Roche College and

the review board, in coordination with the athletic department, finds that it is in the student's best academic interest not to participate in an intercollegiate sport for a particular semester; that recommendation will be upheld to meet La Roche College's academic standards. Thus, a student who is academically eligible by the NCAA standards must comply with the more stringent standards of La Roche College, if applicable.

Confidentiality of Student Records

Notification of Rights Under the Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. La Roche College respects the rights of all students and fully complies with FERPA. These rights are:

- **The right to inspect and review the student's education records within 15 days of the day the college receives a request for access.** Students should submit written requests identifying record(s) they wish to inspect to the Registrar. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained in the Registrar's Office, the student will be directed to the appropriate college administrator.
- **The right to request amendment of the student's education record.** Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write to the college administrator responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the administrator makes the decision not to amend the record as requested by the student, the student will be notified and advised of his or her right to a hearing.
- **The right to consent to disclosures of personally identifiable information** contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials which legitimate educational interests. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
- A school official is a person employed by the College in an administrative, supervisory, academic, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee such as disciplinary or grievance or assisting another school official in performing his or her tasks (work study).
- **The right to file a complaint with the U.S. Department of Education concerning alleged failures by La Roche College to comply with the requirements of FERPA.** The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4605

In accordance with FERPA, La Roche College has designated the following information as "directory information," which may be made available upon request without the student's written permission:

- Student's name, address and phone number
- Date and place of birth
- Major field of study
- Participation in officially recognized activities or sports
- Weight, height and physical condition of members of athletic teams
- Dates of attendance
- Degrees and awards received, including Dean's List (not QPA)
- Student's photograph
- Most recent previous education agency or institution attended

This information may be routinely made public by the College unless the student informs the Registrar (CC224) in writing that any or all of the information designated should not be released without the student's prior consent.

Degree Requirements

To qualify for a degree from La Roche, a student must:

1. Complete the core curriculum (see [Core Curriculum](#)).
2. Successfully earn a minimum of 120-132 credits and fulfill the residency requirement (must complete the last 30 credits at La Roche).
3. Select a major and complete the program of studies that meets the divisional requirements and the approval of his/her advisor.
4. Achieve a cumulative quality point average (QPA) of 2.000 or "C" and QPA of all courses required to complete the major except those majors where more than a 2.000 is required. In those instances, students must achieve the major QPA as stated in the college catalog.
5. Students must file a formal application for graduation by the deadline published in the academic calendar. A graduation fee is payable at that time. Forms may be obtained from the students' advisors, or on the Registrar's web page. The forms must be returned to the Registrar's Office in the College Center.

Developmental Courses

The college recognizes that all students who possess a potential for success in a baccalaureate program begin their college careers with varied preparations. Some students require assistance in writing, English, reading, arithmetic and/or algebra before they are prepared to engage in college level study in these areas.

Through the college's placement testing program (see The Academic Program and Placement Tests) the college identifies students who require assistance in the above areas. Specific courses and their term of completion are assigned by the Assistant Dean for Academic Affairs, Academic & Career Advising in consultation with appropriate faculty. Developmental courses are required of students who do not achieve satisfactory levels on the academic course placement tests. A grade of B or higher is required to progress to college level courses. Developmental course credits apply toward a student's class standing and academic progress for financial aid purposes for all financial aid programs except the PHEAA grant program. Developmental course credits do NOT, however, apply toward college graduation credit requirements, nor may their grades be calculated toward Dean's List consideration.

The following are developmental courses:

- MT 010 Basic Math I
- MT015 Beginning Algebra
- ESL 086-108 English as a Second Language

Experiential Education Programs

Credit For Life Experience

Credit for life experience may be earned for learning gained prior to enrollment at La Roche College. To earn credit for life experience, learning must relate directly to a course offered by La Roche and appear in the catalogue, with the exception of courses listed as internship, independent study or directed research. The total number of credits awarded for life experience may not exceed 30 and may not be included in the last 30 credits required for residency. Each division determines the number of credits awarded for life experience to be counted toward a major. Students should contact their advisor or the registrar for a description of each program, restrictions, and procedures.

Directed Research

Directed research involves the student in the research process by actually engaging in research under the supervision of a qualified instructor. Directed research is an accelerated program of 2-4 credits per semester for upper class students in an academic major. Prerequisites are established by the department.

Independent Study

Independent study is an in-depth examination of a particular topic, under the supervision of a qualified instructor. Independent study is not a substitute for a formal course or graduation requirement. Independent study is an accelerated program of 1-3 credits per semester for upper-class students with a QPA of 2.5 or higher. Students may take up to a total of 6 credits of independent study.

Internship

As part of the academic curriculum, internships are available to students to provide an opportunity to apply formal theory and classroom learning to a field experience associated with their academic major. One to six credits can be earned for an internship experience with no more than a total of six credits earned over the student's tenure at the college. Internships are available to juniors or seniors who have earned a minimum of 60 credits and have a cumulative GPA of 2.75 or higher. An internship may be coordinated with the student's academic advisor. Initial inquiries concerning internships should be directed to the Office of Academic and Career Advising.

Grading System

The college awards the following grades and assigns quality points on a 4-point per credit scale:

Grade	Points Per Credit	Quality Description
A 4.000		Superior
A- 3.700		Outstanding
B+ 3.30	0	
B 3.00	0	
B- 2.70	0	
C+ 2.30	0	
C 2.00	0	Average
C- 1.70	0	
D+ 1.30	0	
D 1.00	0	
D- 0.70	0	Minimal Passing
F 0		Failure
X 0		Incomplete
W 0		Withdrawal
P 0		Pass
NC 0		No Credit
AU 0		Audit
IP 0		In Progress
NR 0		Not Received
T 0		Transfer Credit

Midterm Grade Policy

A grade at midterm is required for all freshman students both fall and spring semesters. In addition, faculty are required to report any earned "D" or "F" midterm grades for students other than freshmen.

Incomplete Grade Policy

In exceptional cases, a student may request an incomplete grade ("X") for a course. If approved by the instructor, the request for an "incomplete" will be submitted on the appropriate form to the Registrar's Office. In the event that the student does not complete the necessary work within six (6) weeks after the beginning of the next academic semester, including summer, the "X" grade will automatically become an "F" grade. Extension beyond six weeks may be granted by the faculty member in the most compelling circumstances. The faculty member must send an email to the Registrar requesting this extension with a deadline date for required work. It is the responsibility of the faculty member to communicate this information to the student.

Pass or No Credit

A student may register for one pass or no credit course each semester. Major, major elective courses, and college graduation requirement courses are not available for the pass or no credit option, except for internship courses. Individual

departments will determine whether internship courses will be graded on a pass or no credit basis.

Application for the pass or no credit option may be obtained from the Registrar's Office. Signed applications must be submitted at the time of registration. This formal application is irrevocable after the last day to add. Since no quality points are assigned for a pass or no credit grade, the grade is not used in the calculation of the QPA.

Placement Tests

Freshmen students are required to complete academic course placement tests prior to their first semester enrollment. Testing is required in three areas: writing, mathematics, and computer applications. Transfer students who have not or will not receive transfer credit for college writing I and/or college algebra must complete the appropriate placement tests prior to their first semester enrollment.

Students who do not achieve satisfactory levels on the placement tests are required to complete appropriate developmental courses. Specific courses and their term of completion are assigned by the Assistant Dean for Academic Affairs, Academic and Career Advising in consultation with appropriate faculty. Developmental course credits apply toward a student's class standing and academic progress for financial aid purposes. Developmental course credits do NOT, however, apply toward college graduation credit requirements, nor may their grades be calculated toward Dean's List consideration or calculated into a student's QPA.

Repeated Course

A course may not be repeated more than twice without the approval of the student's academic advisor and department chair. When a course is repeated, the grades received in both the original course and the subsequent course will remain on the student's academic record. The higher of the two grades earned is included in the computation of the cumulative grade point average (GPA).

The repeated course must be the same in which the original grade was earned. In extenuating circumstances where a course is no longer offered, another course of similar content, verified by the chair of the department offering the course, may be approved as the replacement. If a course number or title changes, with no change in content, the new number and title will be accepted as the replacement.

Courses may not be repeated at any other institution and have that grade accepted as a replacement for the original grade earned at La Roche.

Semester Credit Maximum

The average number of credits carried by full-time students is 12-15 hours each semester. Full-time tuition rate will be charged to students who take up to 17 credits. Students with a 3.00 QPA for the preceding semester and a 2.5 cumulative average may take more than 17 credit hours during a semester with approval of the student's academic advisor.

Student Evaluation

During the last week of each semester each student confidentially and anonymously evaluates each course in which s/he is enrolled. The faculty use these evaluations as a guide in improving their teaching and advising.

Temporary Transfer

Once a student is matriculated at La Roche College, no more than two courses, not to exceed 8 credits, may be taken and transferred from other colleges.

Authorization to have these credits transferred to La Roche must be obtained in writing before enrolling at another college. Students may not transfer credits during their residency (the last 30 credits of their coursework). Students who have accumulated 60 credits may not transfer credits from a community college, a junior college, or other two year program. Only courses not available through La Roche may be taken at other institutions. In most cases, permission for temporary transfer will be granted for the summer semester only.

Transcripts

All requests for transcripts should be submitted in writing to the Registrar's Office. A student's signature is required to release any transcript. A fee is charged for each transcript copy requested. A transcript will not be released for any student who has not met all financial obligations to the college.

Transfer and Extramural Credits

A student may transfer to La Roche College from other accredited colleges or universities. In such cases, only those credits transfer which: (1) are congruent with the academic programs of La Roche, and (2) the student received an A, B, or C grade. Credits are evaluated course-by-course by the Registrar. In all cases the academic departments at La Roche will have final determination on the evaluation of courses which satisfy major and/or department requirements. Transfer students may transfer credits toward their major at La Roche with the following limitations:

- Graphics, Design and Communication - individually determined by the department chair.
- Humanities - 9 credits in a major
- Sciences - 50% of the credits in a major
- Administration and Management - 39 credits in a major
- Social Sciences - 15 credits in a major

Transfer credits are not included in the computation of the QPA but are accepted toward a degree.

More detailed information concerning transfer policies may be obtained from the transfer admissions counselor or the registrar.

Withdrawal from the College

If a student voluntarily withdraws from the college for any reason he/she must complete an online exit survey and file an official withdrawal form with the Registrar. This procedure must be followed by all students wishing to withdraw

from La Roche including those taking La Roche classes at all campus locations or cross registered at other institutions. All refunds of tuition and fees are based on the official date of withdrawal. Failure to properly complete the withdrawal process may result in the loss of good standing.

Graduation Application Procedures

Students who plan to graduate in December, May, or August must file a formal application for graduation by the deadline published in the academic calendar. Students will need to complete an application for graduation, and meet with their advisor to confirm completion of graduation requirements. Return the completed application with a signed program guide and graduation fee to the Registrar's Office in the College Center. Students will not be certified for graduation without filing an application for graduation.

Academic Honors

In order to recognize and encourage excellence in academic achievement, the college acknowledges at commencement those individuals who attain superior performance. Students may be graduated with college or major honors if they have completed at least 45 credits at La Roche. A student with a cumulative QPA as follows:

- QPA of 3.900 - 4.000 Summa Cum Laude (with highest honors)
- QPA of 3.750 - 3.899 Magna Cum Laude (with high honors)
- QPA of 3.500 - 3.749 Cum Laude (with honors)

Major honors are awarded by faculty as outlined for the honors program.

Registration

Registration

A student is permitted to attend only those classes for which he or she is officially registered. New students are registered for classes prior to the beginning of their first semester. Returning students register on-line during mid-semester for the following term. Dates of registration are published in the academic calendar.

Credits will not be granted nor grades recorded on a transcript for any course for which a student is not officially registered.

Many advanced (upper level) courses have prerequisites as indicated in the catalogue. A student may not register for a course until he or she has met the prerequisites or unless the division chairperson or department chairperson grants permission in writing.

Adding or Dropping of Classes

Classes may be added only during the scheduled add/drop period each semester; the last date to add a class is published in the academic calendar. Students are permitted to drop a class after the first week of classes each semester and the final date of the "drop period" is published in the academic calendar. Classes dropped after the first week of classes are included on the student's transcript and indicated by a 'W' grade.

In order to add or drop a class, the proper form, obtainable in the Registrar's Office, must be submitted to the registrar with the appropriate signatures. An add/drop fee is required when adding and/or dropping a class after the scheduled deadline for each event. This fee is payable in the Registrar's Office.

Non-attendance does NOT constitute an official class drop. Failure to drop a class will result in an "F" grade on the student's transcript. Attendance does NOT constitute an official class add. Grades will not be issued nor recorded for a student who completes a class for which he/she is not officially registered.

Audit

Students may audit courses. An audit signifies that the student will not be asked to meet the course requirements such as written assignments or examinations, but that he or she has the privilege of class attendance and participation. Formal application for this option must be made at the time of registration. The tuition for an audited course is identical to the tuition for degree status. No credits toward graduation can be earned for audited courses, and no grade can be given. One may not change from an audit to a regular credit basis once the add period has ended.

Class Attendance

Each instructor is responsible for determining attendance requirements and informing students. Every student enrolled in a course is fully responsible for meeting the requirements stipulated by the instructor. In most cases class time will be integral to the thorough understanding and effective use of the subject

matter of the course. A student who misses class may endanger his/her progress and seriously hinder successful completion of the course.

Prolonged absence from classes due to serious illness or emergency should be reported as soon as possible to the Academic and Career Advising Office. Such prolonged absence may necessitate a withdrawal from the course or courses in question. The Veterans' Administration requires that the college keep attendance on those with veteran's benefits.

Credit By Examination

Instructor Prepared Challenge Examination affords students an opportunity to demonstrate that the knowledge associated with a particular course has already been gained. Challenge exams are not recommended for students unfamiliar with the subject area. With appropriate permission, matriculated La Roche students may take an instructor prepared Challenge Examination for a particular course. Students may challenge a course during residency only if he/she has or will have completed 30 credits of La Roche College class instruction. A maximum of 60 credits may be earned through credit by a Challenge Exam. Divisions determine and maintain both a list of courses available for challenge and restrictions on courses challenged during a student's residency. Normally, a course is challenged only during the semester in which it is offered. Students may not challenge a course which they have failed or retake a failed Challenge Exam. Additionally, students may not challenge a course for which they have registered after the last day of the add period.

Students must pay an application fee and complete the appropriate form, available from the Registrar's Office. Signatures from the instructor, the advisor, division chair or department chairperson and the vice president for academic affairs and academic dean are necessary. An additional per credit fee is required when credits are granted for the completed exam.

Standardized Examinations

The college will award credit for the following standardized examinations: ACT/PEP, CLEP, DANTES, and Advanced Placement. A student can earn CLEP credit in the general examinations and the various subject examinations. The criteria used for awarding credit are the Recommendations Concerning Use of College Level Examination Program (CLEP) published annually by the American Council on Education. Each academic division determines if CLEP is applicable to their specific majors.

No standardized examinations are permitted during the student's residency.

On the AP Examinations for High School Standards, a score of 3 or 4 allows a student to waive a specific course and take the next higher level course. A score of 4 or 5 is needed, however, to receive college credit for the course.

Cross Registration

Any full-time student may cross-register for one course each semester at any one of the Pittsburgh Council on Higher Education (PCHE) institutions, provided the course is open for cross-registration. The grade earned for a cross-registered

course is calculated in the student's GPA. There is no PCHE cross-registration available in the summer or for intercessions. An authorized registration form must be approved by the advisor and the vice president for academic affairs and academic dean and filed with the registrar of the host and home institutions before the deadline for such registration.

La Roche students should use the La Roche College tuition, refund, and add/drop policies any time they cross-register at another institution. However, students are responsible for paying for special course or laboratory fees to the host institution. For further information concerning cross-registration, contact the registrar.

Member colleges of PCHE, in addition to La Roche, are: Carlow, Carnegie Mellon, Chatham, Community College of Allegheny County, Duquesne, Pittsburgh Theological Seminary, Point Park, Robert Morris, and University of Pittsburgh. La Roche students having accumulated 60 credits are not permitted to register for courses at a community, junior college or other 2-year programs.

Tuition and Fees

The following figures represent tuition and fees for the 2009-2010 academic year at La Roche College. If you have questions, please contact the Office of Student Accounts at:

- PHONE: 412-536-1030
- FAX: 412-536-1038
- E-MAIL: stuacct@laroche.edu

Note: Tuition and fees are subject to change without notice.

La Roche Academic Tuition & Fees

Tuition

Undergraduate (Full-Time)

Tuition deposit for all newly admitted full-time freshman & transfer students	\$ 500.00
• <i>Freshmen - Refundable until May 1</i>	
Tuition per semester	\$10469.00
Credit Overload: Charge <i>per credit</i> over 18 credit hours	\$ 525.00
RN-BSN, LEAD, Undergraduate Health Science (degree completion) - per credit/fees included.	\$ 500.00

Undergraduate (Part-Time)

Tuition per credit hour	\$ 525.00
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Graduate

Tuition per credit hour	\$ 575.00
Tuition Deposit - Full-Time Graduate Students <i>-non-refundable</i>	\$ 100.00
Anesthesia Tuition per credit hour	\$ 610.00

Residence Fees

Bold Food Service Plan per semester	\$1477.00
Kettler Food Service Plan per semester	\$1357.00
Residence Hall charges (board mandatory for all resident students)	\$2742.00
Residence Hall key and damage deposit (non-refundable)	\$ 100.00
Parking Fee for Resident Students (optional)	\$ 100.00
Redhawk Food Service Plan per semester - <i>Freshman mandatory</i>	\$1636.00

Processing Fees

Undergraduate & Graduate Application Fee	\$ 50.00
International Application Fee	\$ 50.00
Graduation Fee	\$ 80.00
Student Record Processing Fee (including late add/drop of class)	\$ 50.00
Challenge Exam & Credit for Life Experience Application Fee	\$ 45.00
Challenge Exam & Credit for Life Experience fee per credit	\$ 100.00
Insufficient Funds Returned Check	\$ 25.00
Official Transcript Copy	\$ 5.00
Registration Cancellation Reinstatement Fee	\$ 75.00
Reprint/Replacement Diploma	\$ 40.00
Student Development Data Entry Fee	\$ 1.00
Late Registration Fee (after add/drop)	\$ 100.00
Incomplete Grade Processing Fee	\$ 5.00
Late Application Fee for Graduation	\$ 25.00
Student Development Transcript Set-Up Fee	\$ 15.00

Other Fees/Semester

Full-Time Students Only	\$ 10.00
Curricular Learning & Support Technology (per credit)	
Full-Time	
Student Support and Development	\$ 200.00

Note: Tuition and fees are subject to change without notice.

La Roche College

Faculty

Abbott, Christine M., PHD	Associate Professor
Abedalla, Razak W.	
Abraham, Basmah	
Abramovic, A. Mark	
Adams, Rita, CDP	Visiting Professor - Education
Adkins, Lucille A.	
Al-Kamel, Aref Amen	Adjunct Faculty - Computer Science
Andrew, Allan T.	
Andreykovich, Lara C.	
Antonucci, Ronald A.	
Archer, Lynn K.	Professor
Arend, Lori J., LSW	
Arnold, Jane P.	Associate Professor
Bainbridge, Valerie	
Barash, Mark	
Barnett, James	
Bates, Thomas J.	Associate Professor
Bayer, Janine	Assistant Professor
Beattie, Lynette	
Bellin, Joshua D.	Associate Professor
Berdanier, Robert D.	
Bisbey, Michele E., CPH	Associate Professor
Blackford, Arin	
Blum, Jay P.	
Bobinchock, Edward J	Assistant Professor
Boerio, Victor A.	
Booth, Eric	
Brandt-McDaniel, Kristen	
Brett, Edward T.	Professor - History/Political Science
Bruen, Ella Jane, CDP	
Bucci, Richard C.	
Butcher, Cynthia	Adjunct Faculty - English
Butera, Ralph	
Butz, Margaret	
Buxareo, Beverly	
Byers, Richard L.	Adjunct Faculty-Justice, Law & Security
Cancelled	
Cararie, Gretchen S.	Adjunct Faculty
Cercone, Sharon	
Chapman, Pam	Assistant Professor
Cho, Shinil	Associate Professor
Collette, Nancy	
Connolly, Patrick Thomas	Assistant Professor
Connors, Clare	
Cooper, Robert J.	Adjunct Off-site Coordinator - HSC
Crammond, Joanna	
Croft, Daniel T., Jr.	
Cross-Registration Faculty	
Czyzewski, Andrew J., Jr.	
Dagnon, John M.	
Dawson, Mark	Associate Professor
Day, David	
Day, Ryan	
Delgado, Miriam	
Delo, Kathleen	Visiting Professor
DiCianna, Christopher	
Diaz, L. Carlos	Senior Lecturer
Ellena-Wygonik, Mary Louise	
Etzel, Jack	
Falck, Brian E.	
Farrell, William L.	
Fero, Paul G.	
Fetchko, Michael J.	Assistant Professor

Fink, Melissa A.	
Forrest, Joshua	Associate Professor
Forti, Jean C., PHD	Associate Professor
Founds, George	Professor
Frund, Zane Neil, PHD	
Fujito, Don T.	Professor
Ganni, Jessica	
Ganster, Kathleen J.	
Gates, Janet, PHD	Professor
Germaine, Susan	
Gilardi, Ronald L.	
Gold, Sheila Marie	
Gordon, Albert R.	
Goss, Rachael D.	
Grasso, Thomas X., Jr.	
Greco, Frank M.	
Grubb, J. Kathleen	
Hack, Daniel	Adjunct Faculty - Math
Hartman, Phyllis G. ,,SPHR	
Helfrich, Richard M.	Assistant Professor
Herrington, Barbara E.	Professor
Hinderliter, John	Adjunct Faculty - GCD
Hogle, William	
Holt, Gerard	
Hores, Helen L.	
Horton, William P.	
Houston, Michael S.	
Hutchison, Marc C.	
Joos, Brian	Adjunct Faculty - English
Joos, Irene R.	Associate Professor
Jordan Platt, Linda, PHD	Professor
Jordan, Constance E.	
Kamphaus, Lisa A.	Visiting Professor
Kersten, Astrid L., PHD	Professor
Kilroy, Bridget	Associate Professor
Kleeman, Edward William, JR	
Knapp, Lee O.	
Knee, Robin	
Kooser, Tina E.	
Korade, Andrea E.	
Kreidler, Nicole Bieak	Assistant Professor
Krzemien, Louis J., Jr.	
Kurtz, Ronald J.	
Kurzweg, Carolyn Z.	
Kuttesch, Lois	
Lampe, Lauren P.	Professor
Latal, Mladen	
Lau, Clifford	
Laux, Richard F.	Adjunct Faculty - Health Sciences
Laux, Robert V.	
Le Blanc, Paul J.	Professor
Leight, Robert R.	
Lesic, Ursula Renee	
Liberto, Terri L.	Assistant Professor
Likar, Lawrence	Associate Professor
Litz, Debra J.	Adjunct Faculty - Education
Lodge, Donald R.	
MacDonald, Hubert C., Jr.	
MacQuarrie, Allan	
Maher, Michelle B.	Professor
Maliszewski, Stanley R.	Senior Lecturer
Martinelli, Rosemary	
McBride, Robert	Professor
McCarthy, Mary Anne	Professor
McCauley, Leland M., II	
McDonough, Aura L.	
Merolillo, Maureen	
Michaels, Christopher	
Mitchell, Robert G.	Assistant Professor
Moltz, Carol	Professor
Morris, Donna J.	
Mueller, Sheila K.	Assistant Professor

Murray, Susan Marie	
Nagar, Devvrat J.	Professor
Nellis, Deborah L.	
Neutrelle, James	
Nicholls, Mary Ann Flanigan	
O'Brien, Patrick	Professor
O'Connor, Barbara J., MSRT	
O'Donnell, Lauren M.	
O'Sullivan, Carol	
Orr, Donald J.	Professor
Paff, Wendy	
Phillips, James S.	
Pittsburgh Filmmakers	
Porto, Eugenia	
Prise, Deborah S.	
Profeta, Susan Elizabeth	
Puglisi, Joseph J.	Assistant Professor
Ranalli, Eileen M.	
Rezzetano, Kristin	
Ripepi, Maria C.	Assistant Professor
Ritter, Jeffrey	Professor
Robertson, Linda L.	Associate Professor
Romzick, Patrice E.	
Rosenberg, Stanford H.	Professor
Ross, Frank S.	
Rowe, Gail E.	Professor
Rushmore, William	
Russell, Kevin	
Sabo, Frances E.	Associate Professor
Sankaran, Vedavalli	
Sauret, Alain M.	
Sauret, Chiara Veroni	
Saville, Jacquelyn F.	
Scholar Faculty	
Schwartz, Eric D.	
Schwarz, Myrna S.	
Scigliano, Miriam	Adjunct Faculty - Performing Arts
Seelhorst, Wayne	
Semple, Wesley S.	
Shaeffer, R. Lance	
Sharma, Asha	
Shimko, Emily	Adjunct Faculty - Biology/Health Science
Silvis, Kathryn	Assistant Professor
Singleton, Charles A.	
Sipper, Mark, ESQ	
Smith, Brian Thomas	Professor
Snyder, Paul	
Spangler, Katherine K.	
Sproull, Frederick A.	Associate Professor
Stankowski, Edward, JR	Associate Professor
Stearns, Ruth	Admin Assist
Stender, Uwe	
Stover, Charles T.	
Strickland, Harry B.	Professor
Stumpf, Linda R.	Visiting Professor
Sullivan, Kathleen A.	Professor
Tajuddin, Azlan	Assistant Professor
Thompson, Robert J.	Visiting Professor
Timmerman, Kathleen D.	
Todhunter, John S.	
Todhunter, Susan F.	Associate Professor
Treser, Donald	
Vincent, Anthony J.	
Warren, John H.	
Wee, John	
Wehrheim, Nancy	
Werbaneth, James P.	
White, Thomas E.	
White, William L., Jr.	
Whiteman, Leona	Senior Lecturer
Winterhalter, Dana Jill	

Wood, Sally Elizabeth
Yeasted, Rita Marie, PHD
Young, Michael W.
Zalewsky, Tara
Zeman, Allan
Zivkovich, John M.

Professor
Senior Lecturer
Adjunct Faculty - GCD

La Roche College

Board of Trustees

The Board of Trustees of La Roche College is committed to the school's mission and to ensuring that adequate fiscal resources are available to realize that mission. The Board further affirms the teaching, research and service roles of higher education and the concomitant value of academic freedom in a free and democratic American society.

In particular, the Board affirms the value of a college education which promotes the development of civic responsibility and productive working members of society; the importance of the American enterprise system as the cornerstone of a strong and free economy; the strength of the Catholic heritage of the College and the need to educate for social justice; and the social goal of providing access to higher education for diverse citizens of the society.

The quality education and financial health of La Roche College depends to a large measure on the competence of those chosen to serve as trustees. Some of the skills the College seeks in trustees are: ability to raise and manage financial resources; knowledge of higher education; knowledge of local, state, and/or federal government; lobbying or political skills; knowledge of real estate and legal expertise. The Board seeks diversity of age; sex; educational, racial, ethnic and religious background; and social and political views.

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Karen Yoshino, Ph.D.	Director, Institutional Assessment Blackboard, Inc. Washington DC
Richard A. Zappala (Emeritus)	Chairman (Retired) - First City Company

La Roche College Core Curriculum

The Core Curriculum is the Liberal Arts foundation of a La Roche College education. As students progress through a diverse yet coordinated succession of Core courses, they are challenged to develop the fundamental proficiencies necessary for success in any field of study; to read, write, think, and act critically and creatively in diverse areas of intellectual inquiry; to explore within interdisciplinary settings the individual, local, and global contexts in which they live; and to develop standards of ethical belief and behavior in their academic and personal lives. As such, the Core prepares students to participate intellectually, ethically, creatively, and spiritually within their communities, professions, and world.

Upon successful completion of the Core, students are expected to demonstrate the following characteristics, in addition to the learning outcomes described for each component and the component courses of the curriculum.

- Competence in the fundamental activities necessary for success in any field of study.
- The power to pose academic questions in areas of intellectual inquiry outside the student's major field of study, and to draw on the principles, methodologies, and resources native to those areas in addressing these questions.
- The ability to recognize the complex, interdisciplinary nature of knowledge as it is generated in the world today, and the corresponding ability to approach issues from a variety of perspectives and with a variety of analytical tools.
- The imaginative capacity to conceptualize the interrelationships between local and global communities, and the moral capacity to act on that awareness to further freedom, peace, justice, and well-being for all the world's people.
- The conviction that academic study is infused with ethical choices and concerns, and the courage to promote ethical beliefs and behavior in their academic and personal lives.

The La Roche College Core Curriculum consists of the following components:

- The La Roche Experience
- Fundamental Skills,
- Select courses
- Community & Global courses

Specific learning outcomes for each component of the Core Curriculum can be found here. (Core Curriculum Learning Outcomes)

I. The La Roche Experience (4 credits) – The La Roche Experience is composed of four 1-credit courses taken over four semesters. The course emphasizes the history of La Roche College and introduces students to issues in Diversity and Discrimination, Regions of Conflict, and Economic Justice.

II. Fundamental Skills (12 credits) - These courses provide a foundation of skills for lifelong learning, including writing, mathematics, analytical thinking, problem solving, computer applications, information literacy, and basic knowledge of a foreign language. Students may test out of these requirements. Those who test out of a fundamental course can use the credits for electives.

EN 111/A - College Writing: Exposition I

EN 111L – College Writing: Exposition I Lab
EN 112 - College Writing: Exposition II
MT110/A – College Algebra (minimum math requirement for credit toward degree)
MT110AR – College Algebra Recitation
IST 105 - Practical Computer Applications

III. Select Courses - These courses emphasize broad-based, liberal education and challenge students to explore the principles, methodologies, and resources within areas of intellectual inquiry outside their major field of study. Twelve (12) – fifteen (15) credits are required, including study within each of the following domains:

History
Science
Literature
Social and Cultural Systems
Religion or Philosophy
Aesthetics

Students can fulfill six domains with four courses because: 1) some courses may investigate two domains and will thus carry more than one domain designation; 2) students may fulfill a domain requirement through courses taken in their major, e.g., a literature major would necessarily have "in-depth study of the principles" of literature.

Community Courses and Global Courses (6 credits): effective for new students entering in Fall 2008.

INT-COMM – Integrative Community
INT-GLBL – Integrative Global

These courses emphasize the integration of knowledge and the interconnections between the local and the global. Students are required to take one Community course and one Global course. These courses should be taken in sequence, with the Global course taken after the Community course.

Students entering La Roche College before Fall 2008 fall under the Integrative 100-level, 200-level, and 300-level course sequence for a total of 9 credits of integrative experience course work. Refer to the previous catalog for descriptions of this requirement.

Core Curriculum

Integrative Level 100

INTEG100-001	Media and Democracy
INTEG100-004	The Rule of Law
INTEG100-005	Social History of 20th Century America
INTEG100-006	Exploring Religious Meaning

Integrative Level 200

INTEG200-001	Habits of the Heart
INTEG200-004	Financial Survival & Economic Well-Being
INTEG200-005	The Outlaw: An Examination of the Criminal Individual in the Community and Global Society
INTEG200-007	The Creative Process

Integrative Level 300

INTEG300-001	The Moral of the Story
INTEG300-002	Literacy, Culture and Education
INTEG300-007	Women Across Cultures
INTEG300-008	Globalization: Friends & Foes

SELECT AESTHETICS

SELAES-001	Art in Everyday Life
SELAES-002	Introduction to Art
SELAES-003	Digital Fine Arts
SELAES-006	The Aesthetics of Color
SELAES-007	Music Appreciation I: Classical Music for Those Who Hate Classical Music
SELAES-008	Women's 4-Part A capella Performance
SELAES-010	Creative Dramatics

SELECT HISTORY

SELHS-001	Major Issues in Modern U.S. History
SELHS-002	Multicultural History of the US
SELHS-004	Jesus in Film and History

SELECT LITERATURE

SELLIT-001	Sing & Praise: Contemporary Poetry
SELLIT-002	World Literature I
SELLIT-003	Shakespeare on Film
SELLIT-004	The Bible as Literature
SELLIT-005	This Great Game: The Literature of Baseball
SELLIT-008	Contemporary Literature
SELLIT-010	World Literature II

SELECT LITERATURE / AESTHETICS

SELITAES-007	Writing & Singing the Blues: African-American Literature & Music
SELITAES-008	Fantasy: Film & Literature
SELITAES-009	War: Film & Literature
SELITAES-010	Coming of Age: Film & Literature

SELECT PHILOSOPHY

SELPHL-003	Introduction to World Religions
SELPHL-006	Introduction to the Old Testament
SELPHL-007	The Bible as Literature
SELPHL-009	The Gospels as Literature
SELPHL-010	Jesus, in Film & History

SELECT SCIENCE

SELSCI-001	Introduction to Chemistry: Braving the Elements
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SELSOCI-002	Introduction to Biology: Bugs & Brew
SELSOCI-003	Introduction to Human Body: Systems That Move You
SELSOCI-005	Introduction to Computer Science: Bits, Bytes and Beyond.
SELSOCI-006	Introduction to Physical Science: Let's Get Physical
SELSOCI-007	CSI: Chemistry I

SELECT SOCIAL / CULTURAL

SELSOCI-002	International Justice Systems
SELSOCI-004	Race and Ethnicity
SELSOCI-006	Race, Class & Gender: An Introduction to Sociology
SELSOCI-007	Global Social Problems

Business Division

Programs of Study

Majors

Accounting	BS
Finance	BS
International Affairs	BA
International Development Administration	BA
International Management	BS
Leadership and Administrative Development (LEAD)	BS
Management	BS
Management Information Systems	BA
Marketing	BS
Medical Imaging	BA
Radiography	BA
Real Estate	BS

Minors

Accounting Minor	Other
Finance Minor	Other
Information Technology Minor	Other
Management Information Systems Minor	Other
Management Minor	Other
Marketing Minor	Other
Mathematics Minor	Other

Certificate Programs

Accounting Certificate	Certificate
Administration Certificate Program	Certificate
Consulting for Organizational Learning, Development and Change	Certificate
Contemporary Concepts in Human Resources Management	Certificate
Financial Aspects of Human Resources Management	Certificate
HR Professional	Certificate
Human Resources Generalist	Certificate
Human Resources Information Systems and Technology	Certificate
Human Resources Management Certificates	Certificate
Legal Aspects of Human Resources Management	Certificate
Managing Information Technology and Change	Certificate

Graduate Programs

Master of Science in Human Resources Management	MS
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Detail - Business Division

Accounting

Accounting Major Requirements: 21 credits

Taxation I	AC 301
Taxation II	AC 302
Intermediate Accounting I	AC 311
Intermediate Accounting II	AC 312
Cost Accounting	AC 314
Advanced Accounting	AC 401
Auditing	AC 402

Administration and Management Component Requirements: 48 credits

Accounting I	AC 203
Accounting II	AC 204
Managerial Accounting	AC 213
Macroeconomics	AM 105
Microeconomics	AM 106
Fundamentals of Management	AM 118
Business Law I	AM 209

Organizational Behavior	AM 218
Human Resources Administration	AM 225
Operations Management	AM 420
Seminar-Business Policy	AM 455
Financial Management	FIN 332
Financial Institutions	FIN 336
International Business Management	INT 339
Practical Computer Applications	IST 105
Marketing Management	MKT 221

Major Electives: 6 credits

Accounting with Computers	AC 225
Accounting Internship I	AC 451
Business Law II	AM 210
Business Organization & Regulation	AM 310
Investments	FIN 331
Commercial Bank Management	FIN 334
Managerial Finance	FIN 433
International Finance	INT 446
International Legal Environment	INT 448
Advanced Practical Computer Applications	IST 106
Management Of Information Systems	IST 221
Data Base Management Systems	IST 245
Distributed Data Processing	IST 250

Skills Component Requirements: 9 credits

Professional Presentations	AM 324
Calculus for Business, Economics, and Managerial Sciences	MT 130
Probability and Statistics	MT 140

Finance

Administration and Management Component Requirements: 48 credits

Accounting I	AC 203
Accounting II	AC 204
Managerial Accounting	AC 213
Macroeconomics	AM 105
Microeconomics	AM 106
Fundamentals of Management	AM 118
Business Law I	AM 209
Organizational Behavior	AM 218
Human Resources Administration	AM 225
Operations Management	AM 420
Seminar-Business Policy	AM 455
Financial Management	FIN 332
Financial Institutions	FIN 336
International Business Management	INT 339
Practical Computer Applications	IST 105
Marketing Management	MKT 221

Finance Major Electives: 12 credits

Taxation II	AC 302
Business Law II	AM 210
Business Organization & Regulation	AM 310
Risk Management & Insurance	FIN 340
Real Estate Investment	FIN 439
Management Of Information Systems	IST 221
Networking	IST 230
Data Base Management Systems	IST 245
Systems Analysis and Design	IST 442
Probability and Statistics II	MT 345

Finance Major Requirements: 15 credits

Taxation I	AC 301
Investments	FIN 331
Commercial Bank Management	FIN 334

Managerial Finance	FIN 433
International Finance	INT 446

Skills Component Requirements: 9 credits

Professional Presentations	AM 324
Calculus for Business, Economics, and Managerial Sciences	MT 130
Probability and Statistics	MT 140

International Affairs

International Affairs Concentration Electives: 18 credits

International Business Management	INT 339
International Finance	INT 446
Internship in International Studies I	IS 451
Internship in International Studies II	IS 452
Independent Study	IS 457
Eastern Philosophy	PH 122
World Religions	RS 103

International Affairs Concentration: 15 credits

Intercultural Communication	IS 203
Comparative Government	IS 321
Development: Political, Social & Economic Issues	IS 325
American Foreign Policy	IS 333
Senior Seminar in International Affairs	IS 455

International Studies Core Component: 21 credits (select IS 211 or IS 310)

Macroeconomics	AM 105
Global Politics	IS 201
World Geography	IS 211
International Political Economy	IS 303
Cultural Geography & the Human Mosaic	IS 310
Research Methods	IS 311
International Legal Environment	IS 448
Introduction to American Government	PS 122

International Development Administration

International Development Administration Concentration - 27 credits

Managerial Accounting	AC 213
Fundamentals of Management	AM 118
Human Resources Administration	AM 225
Project Management	AM 315
International Business Management	INT 339
Senior Seminar in International Affairs	IS 455

**International Development Administration Concentration
Finance Component - 6 credits**

Introduction to Facilities Management	FM 100
International Finance	INT 446

**International Development Administration Concentration
Marketing Component - 6 credits**

Marketing Management	MKT 221
International Marketing & Export Management	MKT 349

International Development Administration Major Electives - 6 credits

Microeconomics	AM 106
Innovation and Entrepreneurship	AM 340
Intercultural Communication	COM 203
Geography Elective	GEO XXX
History Elective	HS 3XX

International Management Internship I &II	INT 451 & 452
Comparative Government	IS 321
Independent Study	IS 457
Eastern Philosophy	PH 122
World Religions	RS 103

International Studies Core Component - 21 credits

Macroeconomics	AM 105
Cultural Geography and the Human Mosaic	GEO/IS 310
Research Methods	IS 311
International Legal Environment	IS 448

International Management

Administration & Management Component Requirements: 48 credits

Accounting I	AC 203
Accounting II	AC 204
Managerial Accounting	AC 213
Macroeconomics	AM 105
Microeconomics	AM 106
Fundamentals of Management	AM 118
Business Law I	AM 209
Organizational Behavior	AM 218
Human Resources Administration	AM 225
Operations Management	AM 420
Seminar-Business Policy	AM 455
Financial Management	FIN 332
Financial Institutions	FIN 336
International Business Management	INT 339
Practical Computer Applications	IST 105
Marketing Management	MKT 221

International Management Major Electives: 21 credits (a minimum of 6 credits must be in a foreign language other than native language)

Intercultural Communication	COM 203
European Geography	GEO 212
Geography and World Affairs	GEO 313
World Geography	GEO/IS 211
Cultural Geography and the Human Mosaic	GEO/IS 310
History of Latin American	HS 235
International Management Internship I &II	INT 451 & 452
Independent Study in International Management	INT 457
Global Politics	IS 201
International Political Economy	IS 303
American Foreign Policy	IS 333
Eastern Philosophy	PH 122
Development: Political, Social, Economic Issues	PS/IS 325
World Religions	RS 103

International Management Major Requirements: 12 credits

International Finance	INT 446
International Legal Environment	INT 448
International Political Economy	IS 303
International Marketing & Export Management	MKT 349

Skills Component Requirements: 9 credits

Professional Presentations	AM 324
Calculus for Business, Economics, and Managerial Sciences	MT 130
Probability and Statistics	MT 140

Leadership and Administrative Development (LEAD)

LEAD Component Requirements: 30 credits

Dynamics of Teams	LEAD 301
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Information Literacy Skills	LEAD 351
Management and Financial Analysis	LEAD 356
Macro Organizational Behavior	LEAD 361
Leadership and Ethics	LEAD 401
Communicating Change	LEAD 421
HR Concepts & Negotiations	LEAD 431
Global Thinking & E-commerce	LEAD 456
Capstone Project	LEAD 461

Management

Administration and Management Component Requirements: 48 credits

Accounting I	AC 203
Accounting II	AC 204
Managerial Accounting	AC 213
Macroeconomics	AM 105
Microeconomics	AM 106
Fundamentals of Management	AM 118
Business Law I	AM 209
Organizational Behavior	AM 218
Human Resources Administration	AM 225
Operations Management	AM 420
Seminar-Business Policy	AM 455
Financial Management	FIN 332
Financial Institutions	FIN 336
International Business Management	INT 339
Practical Computer Applications	IST 105
Marketing Management	MKT 221

Skills Component Requirements: 9 credits

Professional Presentations	AM 324
Calculus for Business, Economics, and Managerial Sciences	MT 130
Probability and Statistics	MT 140

Management Information Systems

Administration & Management Component: 45 credits

Accounting I	AC 203
Accounting II	AC 204
Managerial Accounting	AC 213
Macroeconomics	AM 105
Microeconomics	AM 106
Fundamentals of Management	AM 118
Business Law I	AM 209
Organizational Behavior	AM 218
Human Resources Administration	AM 225
Operations Management	AM 420
Financial Management	FIN 332
Financial Institutions	FIN 336
International Business Management	INT 339
Practical Computer Applications	IST 105
Marketing Management	MKT 221

IST Major Requirements: 27 credits

Problem Solving	IST 121
Computer Hardware	IST 125
Introduction to Cyberspace	IST 208
Management Of Information Systems	IST 221
Networking	IST 230
Data Base Management Systems	IST 245
Distributed Data Processing	IST 250
Systems Analysis and Design	IST 442
Senior Seminar in IST	IST 455

MIS Major Electives: Select any 1 from list below

Auditing	AC 402
Linux	IST 330
Computer Programming in Java	IST 334
Advanced Data Base Management Concepts	IST 346
Information Systems Technology Internship I	IST 451

Skills Component: 12 credits

Professional Presentations	AM 324
Technical Writing	EN 230
Calculus for Business, Economics, and Managerial Sciences	MT 130
Probability and Statistics	MT 140

Marketing

Administration & Management Component Requirements: 48 credits

Accounting I	AC 203
Accounting II	AC 204
Managerial Accounting	AC 213
Macroeconomics	AM 105
Microeconomics	AM 106
Fundamentals of Management	AM 118
Business Law I	AM 209
Organizational Behavior	AM 218
Human Resources Administration	AM 225
Operations Management	AM 420
Seminar-Business Policy	AM 455
Financial Management	FIN 332
Financial Institutions	FIN 336
International Business Management	INT 339
Practical Computer Applications	IST 105
Marketing Management	MKT 221

Administrative & Mgmt Required Business Skills Components: 9 credits

Professional Presentations	AM 324
Calculus for Business, Economics, and Managerial Sciences	MT 130
Probability and Statistics	MT 140

Marketing Major Recommended Electives: 15 credits

International Legal Environment	INT 448
Advertising and Public Relations	MKT 207
Personal Selling	MKT 316
Internet Marketing	MKT 350
Brand Management	MKT 416
Services Marketing	MKT 418
Retail Marketing & Management	MKT 435
Sales Management	MKT 446
Marketing Internship	MKT 451

Marketing Major Requirements: 12 credits

Buyer Behavior	MKT 312
Marketing Research	MKT 333
International Marketing & Export Management	MKT 349
Marketing Strategy	MKT 414
Contemporary Topics in Marketing	MKT 431

Radiography

Liberal Arts Requirements: 30 credits

Introduction to Administration and Management	AM 101
College Writing I	EN 111
College Writing II	EN 112
Business Communications	EN 229
Technical Writing	EN 230
Probability and Statistics	MT 140

Introduction to Psychology PSY 121
Modern Public Speaking SPH 101

Real Estate

Major Electives: Select any one course from those listed below (3 credits)

Project Management AM 315
Writing for Advertising EN 334
Study of Great American Houses ID 315
Buyer Behavior MKT 312
Personal Selling MKT 316
Real Estate Institute Course RE XXX

Major Requirements: Complete all five courses (16 credits)

Risk Management & Insurance FIN 340
Real Estate Investment FIN 439
Real Estate Fundamentals RE 195
Real Estate Law & Ethics RE 300
Real Estate Appraisal RE 301

Accounting Minor

Elective Courses: 9 credits

Accounting with Computers AC 225
Taxation I AC 301
Taxation II AC 302
Intermediate Accounting I AC 311
Intermediate Accounting II AC 312
Cost Accounting AC 314
Advanced Accounting AC 401
Auditing AC 402

Required Courses: 9 credits

Accounting I AC 203
Accounting II AC 204
Managerial Accounting AC 213

Finance Minor

Choose one of the following courses (3 credits)

Risk Management & Insurance FIN 340
Real Estate Investment FIN 439
International Finance INT 446

Required Courses (18 credits)

Accounting I AC 203
Accounting II AC 204
Taxation I AC 301
Investments FIN 331
Financial Management FIN 332
Financial Institutions FIN 336

Information Technology Minor

Required Courses: 6 credits

Problem Solving IST 121
Management Of Information Systems IST 221

Select 4 courses from the list below: 12 credits

Computer Crime CRIM 343

Advanced Database Theory	CS 455
Advanced Practical Computer Applications	IST 106
Computer Hardware	IST 125
IST: A Global Perspective	IST 205
Introduction to Cyberspace	IST 208
Computer-Based Training & DL	IST 225
Networking	IST 230
Data Base Management Systems	IST 245
Advanced Computer Hardware	IST 300
Legal Issues and Info Tech	IST 305
Web Page Usability & Programming	IST 308
IT Services Administration	IST 310
Human Computer Interaction	IST 315
Advanced Data Base Management Concepts	IST 346

Management Information Systems Minor

Required Courses: 12 credits

Problem Solving	IST 121
Management Of Information Systems	IST 221
Data Base Management Systems	IST 245
Advanced Data Base Management Concepts	IST 346

Select two courses from the list below : 6 credits

Project Management	AM 315
Database Systems Theory	CS 255
Introduction to Cyberspace	IST 208
Distributed Data Processing	IST 250
Systems Analysis and Design	IST 442

Management Minor

Requirements: 18 credits

Accounting Concepts	AC 101
Introduction to Administration and Management	AM 101
Macroeconomics	AM 105
Fundamentals of Management	AM 118
Human Resources Administration	AM 225
Marketing Management	MKT 221

Marketing Minor

Choose one of the following courses (3 credits):

Buyer Behavior	MKT 312
Marketing Strategy	MKT 414

Choose three of the following courses (9 credits):

Advertising and Public Relations	MKT 207
Personal Selling	MKT 316
Sports Marketing	MKT 331
Marketing Research	MKT 333
International Marketing & Export Management	MKT 349
Internet Marketing	MKT 350
Marketing for Non-Profit Organizations	MKT 401
Services Marketing	MKT 418
Contemporary Topics in Marketing	MKT 431
Retail Marketing & Management	MKT 435
Sales Management	MKT 446

Required (3 credits):

Marketing Management	MKT 221
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Mathematics Minor

Required Courses: 24 credits

Analytic Geometry and Calculus I	MT 132
Analytic Geometry and Calculus I	MT 132
Analytic Geometry and Calculus II	MT 133
Analytic Geometry & Calculus II-Recitation	MT 133R
Analytic Geometry & Calculus III	MT 230
Analytic Geometry & Calculus III-Recitation	MT 230R
Ordinary Differential Equations	MT 231
Discrete Structures I	MT 250
Discrete Structures II	MT 251
Linear Algebra	MT 315

Accounting Certificate**Required Courses: General Rotation (8 weeks each)**

Accounting I	AC 203
Accounting II	AC 204
Managerial Accounting	AC 213
Accounting with Computers	AC 225

Selective Four Elective Courses - 12 credits

Taxation I	AC 301
Taxation II	AC 302
Intermediate Accounting I	AC 311
Intermediate Accounting II	AC 312
Cost Accounting	AC 314
Advanced Accounting	AC 401

Administration Certificate Program**Required Courses: 24 credits**

Managerial Accounting	AC 213
Macroeconomics	AM 105
Fundamentals of Management	AM 118
Business Law I	AM 209
Organizational Behavior	AM 218
Human Resources Administration	AM 225
Project Management	AM 315
Marketing Management	MKT 221

Consulting for Organizational Learning, Development and Change**Required Courses:**

Computer and Web-based Training	HRM 601
Workplace Diversity	HRM 602
Training and Development	HRM 612
Planning and Implementing Change	HRM 620

Contemporary Concepts in Human Resources Management

Organizational Behavior	HRM 520
Organizational Theory	HRM 523
Topics in HRM	HRM 606

Financial Aspects of Human Resources Management

Financial Analysis and Budgeting	HRM 511
Compensation Management	HRM 613
Employee Benefits Management	HRM 615
Labor Relations and Collective Bargaining	HRM 621

HR Professional

Organizational Behavior	HRM 520
Compensation Management	HRM 613
Employee Benefits Management	HRM 615
Employee Health & Safety	HRM 616
Labor Relations and Collective Bargaining	HRM 621
SHRM Learning System	HRM 635

Human Resources Generalist

Organizational Behavior	HRM 520
Human Resources Information Systems	HRM 600
Employee Benefits Management	HRM 615
Recruitment and Placement	HRM 617

Human Resources Information Systems and Technology

Organizational Behavior	HRM 520
Human Resources Information Systems	HRM 600
Computer and Web-based Training	HRM 601
Managing Information Technology & Change Processes	HRM 634

Legal Aspects of Human Resources Management

Workplace Diversity	HRM 602
Advanced Legal Aspects	HRM 611
Labor Relations and Collective Bargaining	HRM 621

Managing Information Technology and Change

Financial Analysis and Budgeting	HRM 511
Human Resources Information Systems	HRM 600
Planning and Implementing Change	HRM 620
Managing Information Technology & Change Processes	HRM 634

Master of Science in Human Resources Management

***Core Course Requirements (21 credits)**

Financial Analysis and Budgeting	HRM 511
Legal Aspects of Human Resources Management	HRM 512
Quantitative Research Methods in Human Resources Management	HRM 513
Organizational Behavior	HRM 520
Organizational Theory	HRM 523
Integrative Seminar in HRM	HRM 525A
Integrative Seminar in HRM	HRM 525B

Concentration A - HR Administration: HRM 613, Compensation and HRM 617, Recruitment required plus nine (9) credits of electives

Human Resources Information Systems	HRM 600
Workplace Diversity	HRM 602
Advanced Legal Aspects	HRM 611
Training and Development	HRM 612
Compensation Management	HRM 613
Employee Benefits Management	HRM 615
Employee Health & Safety	HRM 616
Recruitment and Placement	HRM 617
Leadership	HRM 618
Labor Relations and Collective Bargaining	HRM 621
Internet and Technical Recruiting	HRM 628
SHRM Learning System	HRM 635
Performance Management Systems	HRM 636

Concentration B - Consulting for Organizational Learning, Development & Change: HRM 612-Training & HRM 620-Planning & Implementing Change required plus nine (9) credits from the following:

Computer and Web-based Training	HRM 601
Workplace Diversity	HRM 602
Topics in HRM	HRM 606
Training and Development	HRM 612

Employee Health & Safety	HRM 616
Leadership	HRM 618
Planning and Implementing Change	HRM 620
Managing Information Technology & Change Processes	HRM 634
SHRM Learning System	HRM 635
Performance Management Systems	HRM 636

Concentration C - Strategic Management & Leadership: HRM 618-Leadership and HRM 636-Performance Management required plus nine (9) credits from the following:

Human Resources Information Systems	HRM 600
Workplace Diversity	HRM 602
Topics in HRM	HRM 606
Advanced Legal Aspects	HRM 611
Compensation Management	HRM 613
Employee Health & Safety	HRM 616
Recruitment and Placement	HRM 617
Leadership	HRM 618
Planning and Implementing Change	HRM 620
Labor Relations and Collective Bargaining	HRM 621
SHRM Learning System	HRM 635
Performance Management Systems	HRM 636

Concentration D - Managing Information Technology in Organizations and HR: HRM 600-HRIS and HRM 634-Managing IT required plus nine (9) credits from the following:

Human Resources Information Systems	HRM 600
Computer and Web-based Training	HRM 601
Topics in HRM	HRM 606
Leadership	HRM 618
Planning and Implementing Change	HRM 620
Internet and Technical Recruiting	HRM 628
Managing Information Technology & Change Processes	HRM 634
SHRM Learning System	HRM 635

Electives (9 credits)

Computer and Web-based Training	HRM 601
Workplace Diversity	HRM 602
Topics in HRM	HRM 606
Advanced Legal Aspects	HRM 611
Training and Development	HRM 612
Compensation Management	HRM 613
Employee Benefits Management	HRM 615
Employee Health & Safety	HRM 616
Recruitment and Placement	HRM 617
Leadership	HRM 618
Planning and Implementing Change	HRM 620
Labor Relations and Collective Bargaining	HRM 621
Internet and Technical Recruiting	HRM 628
Managing Information Technology & Change Processes	HRM 634
SHRM Learning System	HRM 635
Performance Management Systems	HRM 636

Design Division

Programs of Study

Majors

Graphic & Communication Design
Interior Design

BS
BSID

Minors

Visual Communication Minor

Other

Detail - Design Division

Graphic & Communication Design

Graphic Design Studio & Related Major Requirements: 60 credits

Fundamentals of Communication for Design Professionals	COM 204
Drawing I	GCD 123
Foundation Design I	GCD 160
Foundation Design II	GCD 162
Computer Graphics I	GCD 170
Computer Graphics II	GCD 171
Typography I	GCD 212
Graphic Design I	GCD 221
Graphic Design II	GCD 331
Graphic Design III	GCD 341
Multimedia II(formerly Multimedia for the Web)	GCD 345
Multimedia III(formerly Multimedia for the Web)	GCD 346
Graphic Design IV: Senior Design Seminar	GCD 455
Portfolio Preparation	GCD 458

Major Electives: 18 credits

Multimedia I(formerly Multimedia for the Web)	GCD 229
Drawing II	GCD 233
Ad Illustration I	GCD 238
Photographic Lighting Techniques	GCD 247
Typography II	GCD 322
Design for Packaging	GCD 343
Computer Graphics:Special Topics	GCD 450
Graphic Design Internship I	GCD 451
Buyer Behavior	MKT 312
Marketing Strategy	MKT 414

Requirement Art History: 12 credits

Art History I	AH 117
History of Art II: Renaissance to Modern	AH 118
History of Graphic Design	AH 202

Select one of the following Art History Courses: 3 credits

History of Film	AH 316
History of Contemporary Art	FA/AH 320

Interior Design

Interior Design Major Requirements: 78 credits

Interior Design Graphics I	ID 111
Interior Design I	ID 120
Interior Design Graphics II	ID 121
Drawing I	ID 123

Foundation Design I	ID 160
Foundation Design II	ID 162
Computer Graphics for Interior Design	ID 215
History of Interior Design and Architecture I	ID 232
Textiles for Interiors	ID 237
Interior Design II (A and B)	ID 238
History of Interior Design and Architecture II	ID 239
Building Technology I: Construction Systems	ID 244
Architectural Rendering	ID 245
Building Technology II: Finish Materials	ID 246
Interior Design III (A and B)	ID 328
History of Interior Design and Architecture III	ID 332
Building Technology III: Lighting and Electrical Systems	ID 340
Building Technology IV: Control Systems	ID 341
Business Practices for Interior Design	ID 441
Contract Documents	ID 442
Interior Design Internship I	ID 451
Senior Design Seminar I	ID 459
Senior Design Seminar II	ID 460

Interior Design-Related Electives: 9 credits

Photography for Interiors	ID 235
Furniture & Custom Detailing	ID 248
Directed Study	ID 250
Study of Great American Houses	ID 315
Kitchen and Bath Design	ID 355
Advanced Ideas Seminar in Interior Design	ID 359
Directed Professional Experience	ID 400
Special Computer Topics in Interior Design	ID 450
Interior Design Internship II	ID 452
Independent Study	ID 457
Portfolio Preparation	ID 458

Visual Communication Minor

Sequence A: Design Studio - Choose 9 credits

Introduction to Art	FA 203
Drawing I	GCD 123
Foundation Design I	GCD 160
Foundation Design II	GCD 162

Sequence A: MAC-based digital courses - 9 credits

Digital Fine Arts	FA/AH 205
Fundamentals of Electronic Publishing	GCD 125
Computer Graphics I	GCD 170
Computer Graphics II	GCD 171
Multimedia I(formerly Multimedia for the Web)	GCD 229

Education & Nursing Division

Programs of Study

Majors

Nursing - Associate of Science Associate
Nursing - RN / BSN Degree Completion Program BSN

Certificate Programs

Elementary Education Certification Certificate
Nursing - Forensic Nursing Certificate Program Certificate
Nursing - School Nurse Certificate Program Certificate
Special Education Certification Program Certificate

Graduate Programs

Master of Science in Nursing - Nursing Administration
Master of Science of Nursing - Nursing Education

Detail - Education & Nursing Division

Nursing - Associate of Science

Year I - Fall Semester

Microbiology for Health Sciences BL 115
Anatomy & Physiology I BL 123
Practical Computer Applications IST 105
Introduction to Nursing NSG 100
Foundations of Clinical Nursing NSG 105

Year I - Spring Semester

Anatomy & Physiology II BL 124
Normal and Clinical Nutrition NS 125
Medical-Surgical Nursing of the Adult NSG 200
Principles of Pharmacology NSG 220

Year I - Summer Semester

College Writing I EN 111
Mental Health Nursing NSG 210
Introduction to Psychology PSY 121

Year II - Fall Semester

College Writing II EN 112
Community Health Nursing NSG 218
Childbearing and Women's Health Nursing NSG 212
Nursing of Children NSG 215

Year II - Spring Semester

High Acuity Nursing NSG 225
Nursing Leadership NSG 230
Introduction to Philosophy PH 121

Nursing - RN / BSN Degree Completion Program

College or Diploma Program Credits / Prerequisites (24 credits required, 12 must be natural science credits)

Microbiology for Health Sciences BL 115
Anatomy & Physiology I BL 123
Human Anatomy and Physiology Lab I BL 123L
Anatomy & Physiology II BL 124

Human Anatomy & Physiology II Laboratory	BL 124L
Principles of Chemistry I	CH 107
College Writing I	EN 111
College Writing II	EN 112
Introduction to Psychology	PSY 121
Race, Class, Gender: An Introduction to Sociology	SOC 121

Liberal Arts Component -- Lower Division Courses: 15 credits

Fundamentals of Management	AM 118
Practical Computer Applications	IST 105
Probability and Statistics	MT 140
Introduction to Philosophy	PH 121
SELECT AESTHETICS	SELAES

Liberal Arts Component -- Upper Division Courses: 15 credits

Literature Elective	EN 3XX
General Elective	GE XXX
History Elective	HS 3XX
Integrative 300	INTEG300
Biomedical Ethics	PH 327

Nursing Component Required Courses: 18 credits required

Health Assessment in Nursing Practice	NSG 320
Leadership in Nursing	NSG 321
Health Teaching	NSG 322
Nursing Research I	NSG 323
Current Issues in Nursing	NSG 420
Community Nursing I	NSG 421

Nursing Component: Select 12 credits from the following electives

Nursing During Acute Illness	NSG 324
Nursing of the Adolescent	NSG 325
Mental Health Nursing	NSG 327
Overview of Gerontological Nursing	NSG 328
Introduction to Nursing Informatics	NSG 412
Nursing Research II	NSG 423
Healing in Nursing Practice	NSG 424
Legal Aspects of Nursing Practice	NSG 426
Health Care for Women	NSG 427
Community Nursing II	NSG 429
Child Health & the School Nurse	NSG 430
Nursing Practice with the Fatally Ill	NSG 432
Family Health Nursing	NSG 436
Health Care for Men	NSG 437

Nursing - Forensic Nursing Certificate Program

This course is a prerequisite to NSG 410 Foundations of Forensic Nursing:

Introduction to the Criminal Justice System	CRIM 101
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This course may be taken as a prerequisite or co-requisite to NSG410 Foundations of Forensic Nursing:

Crime Scene & Forensics Laboratory	CRIM 340
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This is the last course of the certification which can be taken concurrently with CRIM340 Crime Scene and Forensics:

Foundations of Forensic Nursing	NSG 410
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Special Education Certification Program

Course Requirements: 18-21 credits

Assessment/Diagnosis of Special Needs Students	SPED 210
Program/Classroom Management	SPED 220

Methods and Practicum
Inter/Intra Group Communication
Mentoring/Practicum
Advanced Seminar
Student Teaching and/or Project

SPED 310
SPED 320
SPED 330
SPED 410
SPED 451

Humanities Divison

Programs of Study

Majors

Communication, Media & Technology	BS
English Education - Language & Literature	BA
English Studies - Language & Literature	BA
English Studies - Professional Writing	BA
English Studies - Professional Writing - Creative Non-fiction	BA
Film, Video and Media	BA
History	BA
Information Technology	BS
Performing Arts - Dance General Major	BA
Performing Arts - Dance Studio	BA
Political Science	BA
Psychology	BA
Religious Studies	BA
Sociology	BA
Spanish	BA

Minors

Ballet Performance Minor	Other
Communication, Media & Technology Minor	Other
English Studies: Professional Writing Minor	Other
French Minor	Other
History Minor	Other
Humanities Minor	Other
International Affairs Minor	Other
Literature Minor	Other
Philosophy Minor	Other
Psychology Minor	Other
Religious Studies Minor	Other
Sociology Minor	Other
Spanish Minor	Other
Spanish Minor for Elementary Education Majors	Other
Women's / Gender Studies Minor	Other

Certificate Programs

Applied Ethics Certificate	Certificate
ESL Specialist Program	Certificate
Modern Language Certificate Program	Certificate
Parish Program Manager Certificate	Certificate
Professional Writing Certificate Program	Certificate

Special Programs

English as a Second Language	Other
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Detail - Humanities Division

Communication, Media & Technology

Communications Media Management Track: 24 credits

Introduction to Administration and Management	AM 101
Macroeconomics	AM 105
Fundamentals of Management	AM 118
Project Management	AM 315
Professional Presentations	AM 324
Introduction to Organizational Communication	COM 201
Marketing Management	MKT 221

Film and Video Track: 15 credits

History of Film	AH 316
Broadcast Media	COM 402

Filmmaking I	COM/PFM 315
Filmmaking II	COM/PFM 316
Pittsburgh Filmmakers Elective Courses	GCD/COM/PFM

Mass Media Studies Track: 15 credits

Broadcast Media	COM 402
Filmmaking I	COM/PFM 315
Writing for Television & Radio	EN 335
History of Film	GCD 316
Pittsburgh Filmmakers Elective Courses	GCD/COM/PFM

Professional Media Writing Track: 18 credits

Creative Writing I	EN 240
Journalism I	EN 331
Writing for Advertising	EN 334
Public Relations Writing	EN 338
Computer Graphics:Special Topics	GCD 450
Pittsburgh Filmmakers Elective Courses	GCD/COM/PFM

Required Courses: 48 credits

Introduction to Communication	COM 101
Introduction to Mass Communication	COM 102
Intercultural Communication	COM 203
Communication Theory and Research	COM 205
Critical Evaluation of Mass Media	COM 301
Emerging Communications Technology	COM 302
Message Design in Mass Communication	COM 305
Legal Issues in Mass Communication	COM 401
Broadcast Media	COM 402
Senior Focus Project	COM 450
Communication Internship I	COM 451
Fundamentals of Electronic Publishing	GCD 125
Practical Computer Applications	IST 105
Introduction to Cyberspace	IST 208
Modern Public Speaking	SPH 101
Contemporary Communication Through Discussion	SPH 202

English Education - Language & Literature

Education Requirements: 40 credits

Foundations of Education & Field Experience	ED 210
Methods of Teaching and Evaluating English	EED 310
Methods of Teaching Writing: Composition	EN 150
Methods of Teaching Writing: Writers' Center	EN 250
Methods of Teaching Literature I	EN 340
Methods of Teaching Literature II	EN 341
Methods of Teaching Writing: Genres	EN 350
Methods of Teaching Writing: Sequencing and Assessment	EN 450
English Language Learners in the Multicultural Classroom	MLE 200
Advanced Field Experience	SED 351
Secondary Student Teaching	SED 451
Assessment/Diagnosis of Special Needs Students	SPED 210
Program/Classroom Management	SPED 220
Methods and Practicum	SPED 310

Literary Period Course - 3 credits: Select any 300-level period course

Literature Elective	EN 3XX
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Major Requirements: 39 credits (EN221 or EN314 & EN323 or EN321)

Adolescent Literature	EED 330
Introduction to Literary Study	EN 210
World Literature II	EN 222
Issues in American Literature I	EN 236
Issues in American Literature II	EN 239
Introduction to Literary Theory & Criticism	EN 329

American English: Its History & Development
Senior Seminar EN 333
EN 455

Required Mathematics: 3 credits

Probability and Statistics MT 140

Required Psychology Courses: 9 credits

Introduction to Psychology PSY 121
Adolescence Psychology PSY 240
Educational Psychology PSY 261

Select one drama or film course: 3 credits

Film Analysis: Form, History, Ideology EN 243
Dramatic Literature EN 318
Modern American Drama EN 319
Shakespeare on Film EN 321
Creative Dramatics SPH 122

Select one of the following sequences:

Elementary French I FR 101
Intermediate French I FR 201
Elementary Spanish I SP 101
Intermediate Spanish I SP 201

Select one writing course: 3 credits

Business Communications EN 229
Technical Writing EN 230
Creative Writing I EN 240
Special Topics in Composition EN 312
Journalism I EN 331
Advanced Exposition EN 337

English Studies - Language & Literature

English Requirements: 39 credits

World Literature I EN 221
World Literature II EN 222
Issues in American Literature I EN 236
Issues in American Literature II EN 239
Shakespeare EN 323
Introduction to Literary Theory & Criticism EN 329
American English: Its History & Development EN 333
Senior Seminar EN 455

Genre Courses (Select 1)

Dramatic Literature EN 318
Modern American Drama EN 319
Modern American Novel EN 320
Development of the English Novel EN 322

Period Courses (Select 1)

Studies in Literature EN 315
Nineteenth & Twentieth Century Russian Literature: Prose EN 316
Love and War in Old & Medieval English Literature EN 324
Renaissance English Poetry EN 325
Nineteenth Century British Poetry EN 327
Early Twentieth Century British Literature EN 328

Writing Courses Beyond EN 111 & EN 112 (Select 1)

Business Communications EN 229
Technical Writing EN 230
Creative Writing I EN 240

Special Topics in Composition	EN 312
Journalism I	EN 331
Journalism II	EN 332
Writing for Advertising	EN 334
Writing for Television & Radio	EN 335
Grants Writing	EN 336
Public Relations Writing	EN 338

English Studies - Professional Writing

Major Electives and General Electives: 69 credits

World Literature I	EN 221
World Literature II	EN 222
Issues in American Literature I	EN 236
Issues in American Literature II	EN 239
English Writing Internship	EN 451

Management and Design Component Requirements: 12 credits

Introduction to Administration and Management	AM 101
Marketing Management	MKT 221

Professional Writing/English Major Requirements: 39 credits

Business Communications	EN 229
Technical Writing	EN 230
Creative Writing I	EN 240
Special Topics in Composition	EN 312
Journalism I	EN 331
Journalism II	EN 332
American English: Its History & Development	EN 333
Writing for Advertising	EN 334
Writing for Television & Radio	EN 335
Grants Writing	EN 336
Advanced Exposition	EN 337
Public Relations Writing	EN 338
Senior Seminar	EN 455

Film, Video and Media

LaRoche Required General Studies: 30 credits

Introduction to Communication	COM 101
Introduction to Mass Communication	COM 102
Message Design in Mass Communication	COM 305
Creative Writing I	EN 240
Film Analysis: Form, History, Ideology	EN 243
Writing for Television & Radio	EN 335
Fundamentals of Electronic Publishing	GCD 125
Practical Computer Applications	IST 105
Introduction to Cyberspace	IST 208
Marketing Management	MKT 221

History

9 Credits Required (At least one course must be in Western Civilization)

U.S. History: The Foundation of a Republic (1600-1865)	HS 110
U.S. History: The Emergence of a Mass Democracy (1865-1945)	HS 111
Western Civilization I	HS 113
Western Civilization II	HS 114
Multicultural History of the US	SELHS-002

Major Electives: 12 credits required (Note options outlined above under credit breakdown)

Macroeconomics	AM 105
Geography and World Affairs	GEO 313
Cultural Geography and the Human Mosaic	GEO/IS 310

Introduction to Philosophy	PH 121
Eastern Philosophy	PH 122
History of Greek Philosophy	PH 222
Introduction to American Government	PS 122
World Religions	RS 103
Women & Religion	RS 220
Religious Influence on U.S. Development	RS 337
Varieties of Early Christianity	RS 340
Race, Class, Gender: An Introduction to Sociology	SOC 121

Required Courses: 15 credits-any 200-300 level History(HS) course or any (PS) course listed below-6 credits must be in U.S. history & 6 credits in non-U.S. history

200-300 Level History(HS) Course	HS XXX
200-300 Level History(HS) Course	HS XXX
200-300 Level History(HS) Course	HS XXX
200-300 Level History(HS) Course	HS XXX
200-300 Level History(HS) Course	HS XXX
History & Politics of Africa	PS 319
History & Politics of the Middle East	PS 345

Required History Foundational Courses: 12 credits

History Seminar	HS 455
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Information Technology

IT Major Requirements: 54 credits

Technical Writing	EN 230
Problem Solving	IST 121
Computer Hardware	IST 125
IST: A Global Perspective	IST 205
Introduction to Cyberspace	IST 208
Management Of Information Systems	IST 221
Computer-Based Training & DL	IST 225
Networking	IST 230
Data Base Management Systems	IST 245
Advanced Computer Hardware	IST 300
Legal Issues and Info Tech	IST 305
Human Computer Interaction	IST 315
Linux	IST 330
Advanced Networking & Telecom	IST 331
Computer Programming in Java	IST 334
Advanced Data Base Management Concepts	IST 346
Systems Analysis and Design	IST 442
Senior Seminar in IST	IST 455
IST Elective	IST xxx

Performing Arts - Dance Studio

Dance Requirements: 65 credits

Repertoire and Production	PA 100-400
Ballet Techniques	PA 104-404
Modern	PA 105-405
Pointe	PA 108-408
Pas de Deux	PA 110-410
Variations	PA 112-412
Ethnic-Dunham	PA 218
Character	PA 236
Special Topics in Performing Arts-Pilates	PA 350

Performing Arts Academics - 30 credits

Introduction to the Human Body Systems That Move You	BL 102
Nutrition	NS 110
Kinesiology	NS 205
Fundamentals of Music	PA 122
Dance History I	PA 210

Dance History II	PA 215
Dance Pedagogy I	PA 315
Dance Composition	PA 330
Dance Composition II	PA 430
Senior Seminar in Performing Arts/Dance	PA 455

Political Science

Political Science Major - 9 credits required

Introduction to American Government	PS 122
History of Political Thought	PS 315
Comparative Government	PS 321

Political Science Major Electives -- 24 credits selected from the following two sub-fields. American Politics (no more than 15 credits from this sub-field)

U.S. History: The Emergence of a Mass Democracy (1865-1945)	HS 111
History & Culture of the American Indian	HS 300
History of Black Americans	HS 338
Media and Democracy	INTEG100-001
The Rule of Law	INTEG100-004
Constitutional Law	PS 205
History of European Diplomacy	PS 302
Modern U.S. Diplomatic History	PS 323
American Foreign Policy	PS 333
History of American Political Values, Beliefs & Ideas	PS 336
The American Presidency	PS 337
Politics and Society	PS 339
Multicultural History of the US	SELHS-002
Race & Ethnicity	SOC 134
Wealth, Power & Prestige	SOC 238

Political Science Major Electives

Comparative Politics (no more than 15 credits from this sub-field)

Terrorism	CRIM 336
Geography & World Affairs	GEO/IS 313
Britain and Its Empire	HS 200
Contemporary Central America	HS 305
Russia and the Soviet World	HS 320
History of Modern Germany	HS 326
History of Modern Europe	HS 327
East Asian History	HS 328
Global Politics	PS 201
Islam in the World	PS 245
History of European Diplomacy	PS 302
International Political Economics	PS 303
History & Politics of Africa	PS 319
Comparative Public Policy	PS 322
Development: Political, Social & Economic Issues	PS 325
Ethnic Conflict	PS 340
Terrorism in the Modern Age	PS 341
History & Politics of the Middle East	PS 345
History & Politics of the Middle East	PS 345
Development in Southeast Asia	PS 351
Experience of Modern War	PS 352
Social Movements & Resistance	PS 382
History & Politics of Italy	PS 400C
Multicultural History of the US	SELHS-002
Global Social Problems	SOC 123

Psychology

Major Requirements: 9 credits

Introduction to Psychology	PSY 121
Research Methods in Psychology	PSY 311
Senior Seminar in Psychology	PSY 455

Psychology Electives: 21 credits

Health Psychology	PSY 215
Human Sexuality	PSY 218
Child Development	PSY 222
The Exceptional Child	PSY 233
Psychology & Humor	PSY 236
Psychology of Spirituality	PSY 238
Adolescence Psychology	PSY 240
Special Topics	PSY 250
Educational Psychology	PSY 261
Abnormal Psychology	PSY 323
Industrial and Organizational Psychology	PSY 325
Learning & Cognition	PSY 327
Theories of Personality	PSY 328
Interpersonal & Group Dynamics	PSY 330
Tests & Measurements	PSY 331
Psychology of Adulthood and Aging	PSY 332
Physiological Psychology	PSY 335
Counseling Theories & Methods I	PSY 340
Counseling Theories & Methods II	PSY 341
Evolutionary Psychology	PSY 345
Special Topics in Advanced Psychology	PSY 450
Psychology Internship I	PSY 451
Psychology Internship II	PSY 452
Directed Research	PSY 456
Independent Study	PSY 457
Death & Dying	PSY/SOC 320
Social Psychology	PSY/SOC/COM 329

Religious Studies

Major Requirements: 30 credits - Pick either RS 455 or RS 456

Ethics	PH 226
Old Testament	RS 101
New Testament	RS 102
World Religions	RS 103
Church History	RS 111
Moral Theology	RS 115
Sacramental Theology	RS 116
Christology	RS 214
The Church: Institution/Community	RS 234
Senior Seminar	RS 455
Directed Research in Religious Studies	RS 456

Major Electives: 15 credits

Christian Ritual & Worship	RS 112
Survey of Catholic Doctrine	RS 118
Women & Religion	RS 220
Mystery of God	RS 233
Special Topics in Religious Studies	RS 250
Sociology of Religion	RS 331
Religious Influence on U.S. Development	RS 337
Varieties of Early Christianity	RS 340
Special Topics in Scripture	RS 345
Religious Studies Internship I	RS 451
Religious Studies Internship II	RS 452

Sociology

A. Required Introductory Courses -- Select 6 credits

Race, Class, Gender: An Introduction to Sociology	SOC 121
Global Social Problems	SOC 123
Race & Ethnicity	SOC 134

B. Required: Core Sociology -- 9 credits

Foundations of Social Thought	SOC 240
Research Methods	SOC 311
Senior Seminar in Sociology	SOC 455

C. Required Courses: Social Organization -- select 6 credits

Wealth, Power & Prestige	SOC 238
Women in American Society	SOC 326
Family Relations	SOC 327
Sociology of Religion	SOC 331
Politics and Society	SOC 339
Ethnic Conflict	SOC 340
Education & Society	SOC 350

D. Required: Global Sociology -- select 6 credits

Sports & Globalization	SOC 222
Islam in the World	SOC 245
Culture & Human Societies	SOC 270
Social Change & Development	SOC 325
Cities & Globalization	SOC 341
Development in Southeast Asia	SOC 351
Environment & Society	SOC 381
Social Movements & Resistance	SOC 382

E. Required: Social Process and Services -- select 6 credits

Juvenile Delinquency	SOC 230
Social Gerontology	SOC 261
Human Services in Modern Society	SOC 262
Sociology of Work & Occupations	SOC 308
Death & Dying	SOC 320
Social Psychology	SOC 329
Theories of Criminal Deviance	SOC 330
Victims of Abuse and Neglect	SOC 337

Spanish

Major Requirements: 30 credits

Hispanic Literature and Culture	SP 230
Advanced Spanish Language & Culture I	SP 301
Advanced Spanish Language & Culture II	SP 302
Advanced Spanish Grammar & Composition	SP 305
Advanced Conversation	SP 310
Applied Hispanic Linguistics	SP 315
Latin American Culture	SP 325
Survey of Spanish Literature	SP 330
Survey of Latin American Literature	SP 340
Senior Seminar: Special Topics	SP 440

Major Requirements-Electives: Select 9 credits

History of Latin American	HS 235
Contemporary Central America	HS 305
History of Spain	HS 312
Spanish Culture	SP 320

Communication, Media & Technology Minor

Required Courses (A):

Introduction to Communication	COM 101
Introduction to Mass Communication	COM 102
Communication Theory and Research	COM 205
Emerging Communications Technology	COM 302

Required Courses (B): must take at least 6 credits of the following

Introduction to Organizational Communication	COM 201
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Intercultural Communication	COM 203
Critical Evaluation of Mass Media	COM 301
Legal Issues in Mass Communication	COM 401

English Studies: Professional Writing Minor

Required Courses -- choose five courses from the following:

Business Communications	EN 229
Technical Writing	EN 230
Creative Writing I	EN 240
Special Topics in Composition	EN 312
Journalism I	EN 331
Journalism II	EN 332
Writing for Advertising	EN 334
Writing for Television & Radio	EN 335
Grants Writing	EN 336
Advanced Exposition	EN 337
Public Relations Writing	EN 338

French Minor

Required Courses:

Intermediate French I	FR 201
Intermediate French II	FR 202
Advanced French Language & Culture I	FR 301
Advanced French Language & Culture II	FR 302
French Civilization and Culture I	FR 305
Research in French Studies	FR 457

History Minor

Required Courses: 3 Credits from the following

U.S. History: The Foundation of a Republic (1600-1865)	HS 110
U.S. History: The Emergence of a Mass Democracy (1865-1945)	HS 111
Western Civilization I	HS 113
Western Civilization II	HS 114
Multicultural History of the US	SELHS-002

Required Electives: 12 Credits-Any History (HS) 200 or 300 level course or any of the (PS) courses listed below(6 credits must be in U.S. History & 6 credits in non-U.S. History

History Elective	HS XXX
History Elective	HS XXX
History & Politics of Africa	PS 319
History & Politics of the Middle East	PS 345

Humanities Minor

Humanities Minor Required Courses: 15 credits-EN221 or EN222 & EN236 or EN239 & EN2XX or EN3XX & PH2XX or PH3XX , Plus the following:

Introduction to Philosophy	PH 121
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Must take at least 3 credits of the following:

Old Testament	RS 101
New Testament	RS 102
World Religions	RS 103

Required Electives: 6 Credits-Any History (HS) 200 or 300 level course or any of the (PS) courses listed below

History Elective	HS XXX
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Select at least 3 credits of the following:

Christology	RS 214
Women & Religion	RS 220
The Church: Institution/Community	RS 234

International Affairs Minor

International Affairs Minor Required Courses - 12 credits

Global Politics	IS 201
International Political Economy	IS 303
American Foreign Policy	IS 333

Select two courses from the following - 6 credits

Geography Elective	GEO XXX
International Business Management	INT 339
Intercultural Communication	IS 203
Comparative Government	IS 321
Development: Political, Social & Economic Issues	IS 325

Literature Minor

Literature Minor Requirements: 15 credits, EN321 or EN323, Plus the following:

Literature Elective	EN 3XX
Literature Elective	EN 3XX
Literature Elective	EN XXX
Literature Elective	EN XXX

Philosophy Minor

Required Courses:

Introduction to Philosophy	PH 121
Ethics	PH 226
Mystery of God	PH 233
Moral Theology	RS 115
World Views & Identity	SELPHL-002

Psychology Minor

Introduction to Psychology	PSY 121
Research Methods in Psychology	PSY 311

Religious Studies Minor

Required Courses: 9 credits

Old Testament	RS 101
New Testament	RS 102
World Religions	RS 103

Select 9 credits from the following:

Ethics	PH 226
Church History	RS 111
Moral Theology	RS 115
Sacramental Theology	RS 116
Survey of Catholic Doctrine	RS 118
Christology	RS 214
Women & Religion	RS 220
The Church: Institution/Community	RS 234
Special Topics in Religious Studies	RS 250

Sociology Minor

Required courses:

Race, Class, Gender: An Introduction to Sociology SOC 121
 Research Methods SOC 311

Spanish Minor

Intermediate Spanish I SP 201
 Intermediate Spanish II SP 202
 Advanced Spanish Language & Culture I SP 301
 Advanced Spanish Language & Culture II SP 302
 Research in Spanish Studies SP 457

Select one of the following courses in history:

History of Latin American HS 235
 Contemporary Central America HS 305
 History of Political Thought HS 315

Women's / Gender Studies Minor**Required Course: 3 credits**

Special Topics in Feminist Theory SOC 4XX

Select four courses (12 credits) from the following:

Women in Literature EN 315E
 Women in U.S. History HS 330
 Women Across Cultures INTEG300-007
 Women & Religion RS 220
 Women in American Society SOC 326

Applied Ethics Certificate**Applied ethics courses: 6 credits**

The Moral of the Story INTEG300-001
 Biomedical Ethics PH 327

Foundational courses: 6 credits

Ethics PH 226
 Moral Theology RS 115

ESL Specialist Program**Required Courses: 18 Credits**

English Language Learners in the Multicultural Classroom MLE 200
 Structures of English MLE 205
 Language Learning and Instruction MLE 210
 Methods of Teaching and Evaluating ESL MLE 302
 Curriculum and Materials Development for TESOL MLE 305
 Field Experience and Seminar in TESOL MLE 315

Parish Program Manager Certificate**Required Courses: 30 credits**

Ethics PH 226
 Old Testament RS 101
 New Testament RS 102
 World Religions RS 103
 Church History RS 111
 Sacramental Theology RS 116
 Christology RS 214
 Women & Religion RS 220

Professional Writing Certificate Program

Certificate Program-Professional Writing Requirements: 9 credits, EN351 or GCD125, Plus the following:

Technical Writing	EN 230
Introduction to Cyberspace	IST 208

Choose 15 credits from the following:

Business Communications	EN 229
Creative Writing I	EN 240
Special Topics in Composition	EN 312
Journalism I	EN 331
Journalism II	EN 332
Writing for Advertising	EN 334
Writing for Television & Radio	EN 335
Grants Writing	EN 336
Advanced Exposition	EN 337
Public Relations Writing	EN 338

English as a Second Language

English as a Second Language

Low Beginning Reading	ESL 086
Low Beginning Writing	ESL 087
Low Beginning Speaking	ESL 088
Low Beginning Grammar	ESL 089
High Beginner Reading	ESL 090
High Beginner Writing	ESL 091
High Beginner Speaking	ESL 092
High Beginner Grammar	ESL 093
High Beginner Listening	ESL 094
Low Intermediate Reading	ESL 100
Low Intermediate Writing	ESL 101
Low Intermediate Speaking	ESL 102
Low Intermediate Grammar	ESL 103
Low Intermediate Listening	ESL 104
High Intermediate Reading	ESL 105
High Intermediate Writing	ESL 106
High Intermediate Speaking	ESL 107
High Intermediate Grammar	ESL 108
Advanced Reading	ESL 109
Advanced Writing	ESL 110
Advanced Speaking	ESL 111
Advanced Structures of Academic English	ESL 112
Intensive Reading	ESL 113
Intensive Writing	ESL 114
Intensive Speaking	ESL 115
High Intermediate Listening	ESL 120
Advanced Listening	ESL 130
Independent Study in English as a Second Language	ESL 457

Natural & Behavioral Sciences Division

Programs of Study

Majors

Biology (B.A.)	BA
Biology (B.S.)	BS
Biology with Forensics	BS
Chemistry	BS
Chemistry - Comprehensive	BS
Chemistry - Forensic Science	BS
Chemistry - Materials Science Engineering	BS/BSE
Computer Science	BS
Criminal Justice	BA
Criminal Justice - Accelerated Program for Criminal Justice Professionals (APCJP)	BA
Health Science - Option 1	Other
Health Science - Option 2 or 3	Other
Human Services	BA
Mathematics - BA	BA
Mathematics - BS	BS
Mathematics - Industrial Engineering	BS/BSE
National Security Studies	BA
Radiologic Technology	Associate

Minors

Applied Physics Minor	Other
Biology - Molecular Biology Minor	Other
Biology Minor	Other
Chemistry Minor	Other
Computer Science Minor	Other
Criminal Justice Minor	Other
Medical Technology Minor	Other
Political Science Minor	Other
Pre-law Minor	Other

Certificate Programs

Criminalistics Certificate	Certificate
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Special Programs

Athletic Training	Other
Chemistry - Chemical Engineering	BS/BSE
Chemistry - Environmental	BS
Computer Science - Industrial Engineering	BS/BSE
Occupational Therapy	Other
Physical Therapy	BS
Physician Assistant	Other
Speech-Language Pathology	Other

Graduate Programs

Master of Science in Health Science (Nurse Anesthesia)	MS
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Detail - Natural & Behavioral Sciences Division

Biology (B.A.)

Biology Requirements: 30 credits (includes 22 credits of biology electives)

General Biology I	BL 103
General Biology II	BL 104
General Biology Laboratory I	BL 105
General Biology Laboratory II	BL 106

Other Science & Mathematics Courses: 25 credits

General Chemistry I	CH 101
General Chemistry II	CH 102

General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104
College Algebra	MT 110
Trigonometry	MT 123
Probability and Statistics	MT 140
Physics for Health Sciences	PHY 110

Biology (B.S.)

Biology Requirements: 36 credits

Biochemistry Laboratory	BL 337
General Biology I	BL 103
General Biology Laboratory I	BL 105
Microbiology	BL 225
Microbiology Laboratory	BL 225L
Genetics	BL 313
Genetics Laboratory	BL 314
Cell Biology	BL 326
Biochemistry I	BL 336
Biochemistry II	BL 338
Seminar in Biology I	BL 455
Seminar in Biology/Chemistry II	BL 459

Medical/Dental/Veterinary School Preparation Courses:

Comparative Vertebrate Anatomy & Physiology I	BL 221
Comparative Vertebrate Anatomy & Physiology II	BL 222
Immunology	BL 419
Immunology Laboratory	BL 420

Other Science & Mathematics Courses: 35 credits

General Chemistry I	CH 101
General Chemistry Laboratory I	CH 103
Organic Chemistry I	CH 215
Analytic Geometry and Calculus I	MT 132
Analytic Geometry and Calculus II	MT 133
Probability and Statistics	MT 140
Physics I	PHY 132
Physics II	PHY 133

Biology with Forensics

Biology Component: 36 credits

Biochemistry Laboratory	BL 337
General Biology I	BL 103
General Biology II	BL 104
General Biology Laboratory I	BL 105
General Biology Laboratory II	BL 106
Microbiology	BL 225
Microbiology Laboratory	BL 225L
Genetics	BL 313
Genetics Laboratory	BL 314
Cell Biology	BL 326
Special Topics in Biology/Chemistry	BL 328
Biochemistry I	BL 336
Biochemistry II	BL 338
Molecular Biology	BL 430
Molecular Biology Laboratory	BL 431
Seminar in Biology I	BL 455
Seminar in Biology/Chemistry II	BL 459

Chemistry, Mathematics and Physics: 43 credits

General Chemistry I	CH 101
General Chemistry II	CH 102
General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104

Organic Chemistry I	CH 215
Organic Chemistry I-Laboratory	CH 215L
Organic Chemistry II	CH 216
Organic Chemistry II-Laboratory	CH 216L
Analytical Chemistry I	CH 311
Analytical Chemistry Laboratory	CH 311L
Analytical Chemistry II	CH 312
Analytical Chemistry II Laboratory	CH 312L
Analytic Geometry and Calculus I	MT 132
Analytic Geometry and Calculus II	MT 133
Probability and Statistics	MT 140
Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L

Criminal Justice: 13 credits

Introduction to the Criminal Justice System	CRIM 101
Criminal Law	CRIM 310
Criminalistics	CRIM 341
Criminal Investigations	CRIM 345

Chemistry

Chemistry Core: 37 credits

General Chemistry I	CH 101
General Chemistry I-Recitation	CH 101R
General Chemistry II	CH 102
General Chemistry II-Recitation	CH 102R
General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104
Organic Chemistry I	CH 215
Organic Chemistry I-Laboratory	CH 215L
Organic Chemistry II	CH 216
Organic Chemistry II-Laboratory	CH 216L
Chemistry Elective	CH 2XX
Analytical Chemistry I	CH 311
Analytical Chemistry Laboratory	CH 311L
Analytical Chemistry II	CH 312
Analytical Chemistry II Laboratory	CH 312L
Physical Chemistry I	CH 432
Physical Chemistry Laboratory	CH 432L
Physical Chemistry II	CH 433
Physical Chemistry II Laboratory	CH 433L
Seminar in Chemistry I	CH 455
Seminar in Chemistry II	CH 459

Science Component: 27 credits

General Biology I	BL 103
General Biology I - Recitation	BL 103R
General Biology II	BL 104
General Biology II - Recitation	BL 104R
General Biology Laboratory I	BL 105
General Biology Laboratory II	BL 106
Analytic Geometry and Calculus I	MT 132
Analytic Geometry & Calculus I-Recitation	MT 132R
Analytic Geometry and Calculus II	MT 133
Analytic Geometry & Calculus II-Recitation	MT 133R
Probability and Statistics	MT 140
Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L

Suggested Medical/Dental/Veterinary School Preparation Courses:

Comparative Vertebrate Anatomy & Physiology I	BL 221
Comparative Vertebrate Anatomy & Physiology II	BL 222

Microbiology	BL 225
Genetics	BL 313
Genetics Laboratory	BL 314
Immunology	BL 419
Immunology Laboratory	BL 420
Biochemistry I	CH 336
Biochemistry Laboratory	CH 337

Chemistry - Comprehensive

Chemistry Core Requirements: 38 credits

General Chemistry I	CH 101
General Chemistry I-Recitation	CH 101R
General Chemistry II	CH 102
General Chemistry II-Recitation	CH 102R
General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104
Organic Chemistry I	CH 215
Organic Chemistry I-Laboratory	CH 215L
Organic Chemistry II	CH 216
Organic Chemistry II-Laboratory	CH 216L
Analytical Chemistry I	CH 311
Analytical Chemistry Laboratory	CH 311L
Analytical Chemistry II	CH 312
Analytical Chemistry II Laboratory	CH 312L
Chemistry Elective	CH 3XX
Physical Chemistry I	CH 432
Physical Chemistry Laboratory	CH 432L
Physical Chemistry II	CH 433
Physical Chemistry II Laboratory	CH 433L
Chemistry Elective	CH 4XX

Chemistry Course Additional: 16 credits

Inorganic Chemistry	CH 326
Biochemistry I	CH 336
Biochemistry Laboratory	CH 337
Research in Chemistry	CH 456

Other Science & Mathematics Courses: 33 credits

General Biology I	BL 103
General Biology II	BL 104
General Biology Laboratory I	BL 105
General Biology Laboratory II	BL 106
Seminar in Chemistry I	CH 455
Seminar in Chemistry II	CH 459
Programming I	CS 110
Programming I Lab	CS 110L
Analytic Geometry and Calculus I	MT 132
Analytic Geometry and Calculus II	MT 133
Probability and Statistics	MT 140
Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L

Chemistry - Forensic Science

Chemistry Component: 42 credits

General Chemistry I	CH 101
General Chemistry I-Recitation	CH 101R
General Chemistry II	CH 102
General Chemistry II-Recitation	CH 102R
General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104
Organic Chemistry I	CH 215
Organic Chemistry I-Laboratory	CH 215L

Organic Chemistry II	CH 216
Organic Chemistry II-Laboratory	CH 216L
Analytical Chemistry I	CH 311
Analytical Chemistry Laboratory	CH 311L
Analytical Chemistry II	CH 312
Analytical Chemistry II Laboratory	CH 312L
Biochemistry I	CH 336
Biochemistry Laboratory	CH 337
Physical Chemistry I	CH 432
Physical Chemistry Laboratory	CH 432L
Physical Chemistry II	CH 433
Physical Chemistry II Laboratory	CH 433L
Seminar in Chemistry I	CH 455
Seminar in Chemistry II	CH 459
Forensic Chemistry	CH 460
Forensic Chemistry Laboratory	CH 460L

Criminal Justice component: 13 credits

Introduction to the Criminal Justice System	CRIM 101
Criminal Law	CRIM 310
Criminalistics	CRIM 341
Criminal Investigations	CRIM 345

Other Science and Mathematics courses:

General Biology I	BL 103
General Biology II	BL 104
General Biology Laboratory I	BL 105
General Biology Laboratory II	BL 106
Molecular Biology	BL 430
Molecular Biology Laboratory	BL 431
Analytic Geometry and Calculus I	MT 132
Analytic Geometry and Calculus II	MT 133
Probability and Statistics	MT 140
Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L

Chemistry - Materials Science Engineering

Chemistry Core: 32 credits

General Chemistry I	CH 101
General Chemistry I-Recitation	CH 101R
General Chemistry II	CH 102
General Chemistry II-Recitation	CH 102R
General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104
Organic Chemistry I	CH 215
Organic Chemistry I-Laboratory	CH 215L
Organic Chemistry II	CH 216
Organic Chemistry II-Laboratory	CH 216L
Analytical Chemistry I	CH 311
Analytical Chemistry Laboratory	CH 311L
Analytical Chemistry II	CH 312
Analytical Chemistry II Laboratory	CH 312L
Physical Chemistry I	CH 432
Physical Chemistry Laboratory	CH 432L
Physical Chemistry II	CH 433
Physical Chemistry II Laboratory	CH 433L

Other Science and Mathematics Courses: 36

Polymer Chemistry	CH 315
Programming I	CS 110
Analytic Geometry and Calculus I	MT 132
Analytic Geometry and Calculus II	MT 133
Analytic Geometry & Calculus III	MT 230
Ordinary Differential Equations	MT 231

Linear Algebra	MT 315
Physics I	PHY 132
Physics II	PHY 133
Physics III	PHY 230

Computer Science

Computer Science Core: 30 credits-CS 225 or IST 245 May Be Selected

Introduction to Computer Science	CS 102
Programming I	CS 110
Programming I Lab	CS 110L
Programming II	CS 210
Programming II Lab	CS 210L
Algorithm Analysis	CS 220
Systems Programming	CS 225
Systems Programming Lab	CS 225L
Computer Organization & Design	CS 235
Database Systems Theory	CS 255
Operating Systems	CS 340
CS Senior Capstone Experience	CS 490
Data Base Management Systems	IST 245

Computer Science Electives: 9 credits. This is fulfilled with any 400-level Computer Science course or internship approved by the chair. The following non-CS courses will also be accepted.

Computer Crime	CRIM 343
Computer Science-400 level	CS 4XX
Legal Issues and Info Tech	IST 305
Web Page Usability & Programming	IST 308
Human Computer Interaction	IST 315

Mathematics Components: 14 credits

Analytic Geometry and Calculus I	MT 132
Analytic Geometry & Calculus I-Recitation	MT 132R
Analytic Geometry and Calculus II	MT 133
Analytic Geometry & Calculus II-Recitation	MT 133R
Probability and Statistics	MT 140
Discrete Structures I	MT 250

Physics Components: 8 credits

Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L

Criminal Justice

Criminal Justice Required Courses: 27 credits (Students may select CRIM/SOC 330, Theories of Criminal Deviance OR CRIM 342, Applied Criminology)

Introduction to the Criminal Justice System	CRIM 101
Constitutional Law	CRIM 205
Intelligence Analysis and Presentation Techniques	CRIM 211
Criminal Law	CRIM 310
Applied Criminology	CRIM 342
Criminal Investigations	CRIM 345
Senior Criminal Justice Capstone	CRIM 455

Elective Courses: select any 4 courses (12 credits)

CSI: La Roche	CRIM 100
Introduction to Corrections	CRIM 210
Correctional Counseling	CRIM 300
Special Topics in Criminal Justice	CRIM 320
Enterprise & Transnational Crime	CRIM 334
Terrorism	CRIM 336
Crime Scene & Forensics Laboratory	CRIM 340

Criminalistics	CRIM 341
Computer Crime	CRIM 343
Security Management & Loss Prevention	CRIM 346
Administration of Criminal Justice Organizations	CRIM 352
Law Enforcement Communications: Interviewing, Note Taking and Report Writing	CRIM 354
Emergency Preparedness and Crisis Management	CRIM 412
Internship in Criminal Justice	CRIM 451
Independent Study	CRIM 457

Skills Component: 15 credits (students may select CRIM 212, Analysis of Criminal Justice Data OR MT 140, Probability & Statistics; students may select CRIM 218, Professional Responsibility OR PH 226 Ethics

Analysis of Criminal Justice Data	CRIM 212
Professional Responsibility: Legal & Ethical Concepts	CRIM 218
Technical Writing	EN 230
Introduction to Cyberspace	IST 208
Probability and Statistics	MT 140
Logic	PH 120
Ethics	PH 226

Criminal Justice - Accelerated Program for Criminal Justice Professionals (APCJP)

Criminal Justice -15 credits required: Students granted 12 credits for CRIM 101–Introduction to the Criminal Justice System (A); CRIM 216–Police and Society (W); CRIM 345–Criminal Investigations (A); and CRIM 211-Intelligence Analysis and Presentation (A)

Criminal Law	CRIM 310
Senior Criminal Justice Capstone	CRIM 455

Criminal Justice Electives - Select 6 credits: Students are granted 6 credits for CRIM 354 – Law Enforcement Communications (A); and CRIM 451 – Internship (W)

Introduction to Corrections	CRIM 210
Correctional Counseling	CRIM 300
Enterprise & Transnational Crime	CRIM 334
Terrorism	CRIM 336
Crime Scene & Forensics Laboratory	CRIM 340
Criminalistics	CRIM 341
Computer Crime	CRIM 343
Security Management & Loss Prevention	CRIM 346
Administration of Criminal Justice Organizations	CRIM 352
Independent Study	CRIM 457

Criminal Justice Skills - 12 credits required: Students are granted 3 credits for CRIM 207 – Professional Responsibility (A). (Select CRIM 212 or MT 140)

Analysis of Criminal Justice Data	CRIM 212
Technical Writing	EN 230
Introduction to Cyberspace	IST 208
Probability and Statistics	MT 140
Logic	PH 120

Major Electives: 6 credits

Distributed Data Processing	IST 250
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National Security Studies Electives: 12 credits

Islam in the World	PS 245
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**Political Science Major Electives
Comparative Politics (no more than 15 credits from this sub-field)**

History of European Diplomacy	PS 302
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Required Electives: Must take at least 6 credits of the following

History & Politics of Africa	PS 319
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Human Services

Human Services Major Requirements: 39 credits

Introduction to Psychology	PSY 121
Abnormal Psychology	PSY 323
Interpersonal & Group Dynamics	PSY 330
Counseling Theories & Methods I	PSY 340
Counseling Theories & Methods II	PSY 341
Psychology Internship I	PSY 451
Psychology Internship II	PSY 452
Race, Class, Gender: An Introduction to Sociology	SOC 121
Human Services in Modern Society	SOC 262

Human Services non-optional requirements: (A) Choose 1

Child Development	PSY 222
Psychology of Adulthood and Aging	PSY 332

Human Services non-optional requirements: (B) Choose 1

Global Social Problems	SOC 123
Family Relations	SOC 327

Human Services: Choose 2 from either PSY or SOC

Research Methods in Psychology	PSY 311
Senior Seminar in Psychology	PSY 455
Research Methods	SOC 311
Senior Seminar in Sociology	SOC 455

Major Electives: 24 credits

Fundamentals of Management	AM 118
Human Resources Administration	AM 225
Introduction to the Criminal Justice System	CRIM 101
Grants Writing	EN 336
Introduction to Cyberspace	IST 208
Health Psychology	PSY 215
Human Sexuality	PSY 218
Child Development	PSY 222
The Exceptional Child	PSY 233
Adolescence Psychology	PSY 240
Death & Dying	PSY 320
Theories of Personality	PSY 328
Social Psychology	PSY 329
Tests & Measurements	PSY 331
Psychology of Adulthood and Aging	PSY 332
Global Social Problems	SOC 123
Race & Ethnicity	SOC 134
Sociology of Work & Occupations	SOC 308
Family Relations	SOC 327
Victims of Abuse and Neglect	SOC 337
Sociology of Mental Health	SOC 343

Mathematics - BA**Mathematics Core: 45 credits**

Analytic Geometry and Calculus I	MT 132
Analytic Geometry & Calculus I-Recitation	MT 132R
Analytic Geometry and Calculus II	MT 133
Analytic Geometry & Calculus II-Recitation	MT 133R
Analytic Geometry & Calculus III	MT 230
Analytic Geometry & Calculus III-Recitation	MT 230R
Ordinary Differential Equations	MT 231
Discrete Structures I	MT 250
Discrete Structures II	MT 251
Linear Algebra	MT 315
Complex Analysis	MT 335
Probability and Statistics I	MT 340

Probability and Statistics II	MT 345
History of Mathematics	MT 403
Modern Abstract Algebra	MT 415
Geometry	MT 420
Real Analysis	MT 435
Junior-Senior Seminar in Mathematics	MT 490

Physics Component: 8 credits

Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L

Mathematics - BS

Computer Science: 7 credits

Introduction to Computer Science	CS 102
Programming I	CS 110
Programming I Lab	CS 110L

Mathematics Core: 42 credits

Analytic Geometry and Calculus I	MT 132
Analytic Geometry & Calculus I-Recitation	MT 132R
Analytic Geometry and Calculus II	MT 133
Analytic Geometry & Calculus II-Recitation	MT 133R
Analytic Geometry & Calculus III	MT 230
Analytic Geometry & Calculus III-Recitation	MT 230R
Ordinary Differential Equations	MT 231
Discrete Structures I	MT 250
Discrete Structures II	MT 251
Linear Algebra	MT 315
Complex Analysis	MT 335
Probability and Statistics I	MT 340
Probability and Statistics II	MT 345
History of Mathematics	MT 403
Modern Abstract Algebra	MT 415
Geometry	MT 420
Real Analysis	MT 435
Junior-Senior Seminar in Mathematics	MT 490

Physics: 12 credits

Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L
Physics III	PHY 230
Physics III Laboratory	PHY 230L

Mathematics - Industrial Engineering

Mathematics: 42 credits (6 credits to be completed at the University of Pittsburgh)

Analytic Geometry and Calculus I	MT 132
Analytic Geometry & Calculus I-Recitation	MT 132R
Analytic Geometry and Calculus II	MT 133
Analytic Geometry & Calculus II-Recitation	MT 133R
Analytic Geometry & Calculus III	MT 230
Analytic Geometry & Calculus III-Recitation	MT 230R
Ordinary Differential Equations	MT 231
Discrete Structures I	MT 250
Discrete Structures II	MT 251
Linear Algebra	MT 315
Probability and Statistics I	MT 340
Probability and Statistics II	MT 345
Modern Abstract Algebra	MT 415
Real Analysis	MT 435

Numerical Mathematics I	MT 460
Physics Courses: 12 credits	
Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L
Physics III	PHY 230
Physics III Laboratory	PHY 230L
Required: Chemistry- 8 credits	
General Chemistry I	CH 101
General Chemistry I-Recitation	CH 101R
General Chemistry II	CH 102
General Chemistry II-Recitation	CH 102R
General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104
Required: Computer Science- 7 credits	
Introduction to Computer Science	CS 102
Programming I	CS 110
Programming I Lab	CS 110L
National Security Studies	
Major Requirements: 18 credits	
Macroeconomics	AM 105
Terrorism	CRIM 336
Global Politics	IS 201
Intelligence Analysis and Presentation Techniques	NSC 211
National Security & Intelligence: Senior Seminar	NSC 405
National Security Studies Electives: 12 credits	
Enterprise & Transnational Crime	CRIM 334
Computer Crime	CRIM 343
International Political Economy	IS 303
Financial Investigation and Analysis	NSC 315
Emergency Preparedness and Crisis Management	NSC 412
Independent Study / Honors Project	NSC 457
Introduction to Psychology	PSY 121
Interpersonal & Group Dynamics	PSY 330
Requirements: Foreign Area Studies: 6 credits	
History of Latin American	HS 235
Contemporary Central America	HS 305
History & Politics of Africa	PS 319
History & Politics of the Middle East	PS 345
Skills Component: 24 credits	
Advanced Practical Computer Applications	IST 106
Management Of Information Systems	IST 221
Data Base Management Systems	IST 245
Probability and Statistics	MT 140
Business Intelligence	NSC 310
Research Methods	NSC 311
Internship	NSC 451
Radiologic Technology	
26 credits in radiologic technology (taught at Ohio Valley General Hospital School of Radiography):	
Radiologic Technology I	HSC 201
Clinical Education I	HSC 202

Radiography Technology II	HSC 203
Clinical Education II	HSC 204
Radiologic Technology III	HSC 205
Clinical Education III	HSC 206
Radiologic Technology IV	HSC 207
Clinical Education IV	HSC 208
Radiologic Technology V	HSC 209
Clinical Education V	HSC 210
Radiologic Technology VI	HSC 211
Clinical Education VI	HSC 212
Radiographic Review	HSC 213

Core Curriculum: 21 credits

College Writing I	EN 111
College Writing II	EN 112
Integrative 100	INTEG100
Practical Computer Applications	IST 105
Introduction to Psychology	PSY 121
CORE Courses/SELECT	SEL
CORE Courses/SELECT	SEL

Natural Science & Mathematics: 22 credits

Life Science Lab	BL 100
Life Science	BL 101
Medical Terminology	BL 120
Anatomy & Physiology I	BL 123
Anatomy & Physiology II	BL 124
College Algebra	MT 110
Physics for Health Sciences	PHY 110

Applied Physics Minor

Required Courses:

Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L
Physics III	PHY 230
Physics III Laboratory	PHY 230L
Analog Electronics (Electronics I)	PHY 280
Electronics I Laboratory	PHY 280L
Digital Electronics (Electronics II)	PHY 380
Electronics II Laboratory	PHY 380L

Six (6) credits (2 courses) selected from the following:

Computational Physics	PHY 375
Electronic Communication	PHY 382
Electronic Communication Laboratory	PHY 382L
Physics of Information Theory	PHY 475
Instrumentation Physics	PHY 480
Instrumentation Physics Laboratory	PHY 480L

Biology - Molecular Biology Minor

Required Courses: 12 credits

General Biology I	BL 103
General Biology Laboratory I	BL 105
Molecular Biology	BL 430
Molecular Biology Laboratory	BL 431

Select at least 12 additional credits from the following courses:

Biochemistry Laboratory	BL 337
Microbiology	BL 225
Genetics	BL 313

Genetics Laboratory	BL 314
Cell Biology	BL 326
Biochemistry I	BL 336
Biochemistry II	BL 338
Immunology	BL 419
Immunology Laboratory	BL 420

Biology Minor

Required Courses: 8 credits

General Biology I	BL 103
General Biology II	BL 104
General Biology Laboratory I	BL 105
General Biology Laboratory II	BL 106

Chemistry Minor

Required Chemistry Courses

General Chemistry I	CH 101
General Chemistry Laboratory I	CH 103
Organic Chemistry I	CH 215
Analytical Chemistry I	CH 311

Computer Science Minor

Required Courses: 17 credits

Introduction to Computer Science	CS 102
Programming I	CS 110
Programming I Lab	CS 110L
Programming II	CS 210
Programming II Lab	CS 210L
Discrete Structures I	CS 215
Algorithm Analysis	CS 220

Criminal Justice Minor

Required: 6 credits

Introduction to the Criminal Justice System	CRIM 101
Constitutional Law	CRIM 205
Criminal Law	CRIM 310

Medical Technology Minor

Required courses:

Comparative Vertebrate Anatomy & Physiology I	BL 221
Comparative Vertebrate Anatomy & Physiology II	BL 222
Microbiology	BL 225
Genetics	BL 313
Genetics Laboratory	BL 314
Immunology	BL 419
Immunology Laboratory	BL 420
Molecular Biology	BL 430
Molecular Biology Laboratory	BL 431

Political Science Minor

Required Courses: 9 credits

Introduction to American Government	PS 122
History of Political Thought	PS 315
Comparative Government	PS 321

Required Electives: 6 credits-Any two 300-level-Political Science- 3 credit courses:

Political Science 300-level	PS 3XX
Political Science 300-level	PS 3XX

Pre-law Minor**Required Courses:**

Professional Presentations	AM 324
Intelligence Analysis and Presentation Techniques	CRIM 211
Advanced Exposition	EN 337
A History of American Values, Beliefs and Ideas	HS 336
Logic	PH 120
Ethics	PH 226
Introduction to American Government	PS 122
Modern Public Speaking	SPH 101

Chemistry - Chemical Engineering**Chemistry Core: 32 credits**

General Chemistry I	CH 101
General Chemistry I-Recitation	CH 101R
General Chemistry II	CH 102
General Chemistry II-Recitation	CH 102R
General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104
Organic Chemistry I	CH 215
Organic Chemistry I-Laboratory	CH 215L
Organic Chemistry II	CH 216
Organic Chemistry II-Laboratory	CH 216L
Analytical Chemistry I	CH 311
Analytical Chemistry Laboratory	CH 311L
Analytical Chemistry II	CH 312
Analytical Chemistry II Laboratory	CH 312L
Physical Chemistry I	CH 432
Physical Chemistry Laboratory	CH 432L
Physical Chemistry II	CH 433
Physical Chemistry II Laboratory	CH 433L

Other Science and Mathematics Courses: 32 credits

Programming I	CS 110
Analytic Geometry and Calculus I	MT 132
Analytic Geometry and Calculus II	MT 133
Probability and Statistics	MT 140
Analytic Geometry & Calculus III	MT 230
Ordinary Differential Equations	MT 231
Linear Algebra	MT 315
Physics I	PHY 132
Physics II	PHY 133

Chemistry - Environmental**Chemistry Component: 36 credits**

General Chemistry I	CH 101
General Chemistry I-Recitation	CH 101R
General Chemistry II	CH 102
General Chemistry II-Recitation	CH 102R
General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104
Organic Chemistry I	CH 215
Organic Chemistry I-Laboratory	CH 215L
Organic Chemistry II	CH 216
Organic Chemistry II-Laboratory	CH 216L
Analytical Chemistry I	CH 311

Analytical Chemistry Laboratory	CH 311L
Analytical Chemistry II	CH 312
Analytical Chemistry II Laboratory	CH 312L
Biochemistry I	CH 336
Biochemistry Laboratory	CH 337
Physical Chemistry I	CH 432
Physical Chemistry Laboratory	CH 432L
Physical Chemistry II	CH 433
Physical Chemistry II Laboratory	CH 433L
Seminar in Chemistry I	CH 455
Seminar in Chemistry II	CH 459

Mathematics & Science Component: 35 credits

General Biology I	BL 103
General Biology I - Recitation	BL 103R
General Biology II	BL 104
General Biology II - Recitation	BL 104R
General Biology Laboratory I	BL 105
General Biology Laboratory II	BL 106
Analytic Geometry and Calculus I	MT 132
Analytic Geometry and Calculus II	MT 133
Probability and Statistics	MT 140
Physics I	PHY 132
Physics II	PHY 133

Computer Science - Industrial Engineering

CS - Requirements: 30 credits

Introduction to Computer Science	CS 102
Programming I	CS 110
Programming I Lab	CS 110L
Programming II	CS 210
Programming II Lab	CS 210L
Discrete Structures I	CS 215
Discrete Structures II	CS 216
Algorithm Analysis	CS 220
Systems Programming	CS 225
Systems Programming Lab	CS 225L
Computer Organization & Design	CS 235
Operating Systems	CS 340

CS-Chemistry Requirements: 8 credits

General Chemistry I	CH 101
General Chemistry II	CH 102
General Chemistry Laboratory I	CH 103
General Chemistry Laboratory II	CH 104

Mathematics Componets: 24 credits

Analytic Geometry and Calculus I	MT 132
Analytic Geometry & Calculus I-Recitation	MT 132R
Analytic Geometry and Calculus II	MT 133
Analytic Geometry & Calculus II-Recitation	MT 133R
Analytic Geometry & Calculus III	MT 230
Analytic Geometry & Calculus III-Recitation	MT 230R
Ordinary Differential Equations	MT 231
Linear Algebra	MT 315
Probability and Statistics I	MT 340
Probability and Statistics II	MT 345

Physics: 16 credits

Physics I	PHY 132
Physics I Laboratory	PHY 132L
Physics II	PHY 133
Physics II Laboratory	PHY 133L
Physics III	PHY 230
Physics III Laboratory	PHY 230L

Analog Electronics (Electronics I)
Electronics I Laboratory

PHY 280
PHY 280L

Required: Accounting Component: 3 credits

Managerial Accounting

AC 213

Master of Science in Health Science (Nurse Anesthesia)

1. Fall Year One

Professional Aspects of Anesthesia Practice
Pharmacology I
Organic & Medicinal Chemistry
Anatomy, Physiology, & Pathophysiology I
Anesthesia Didactics I

HSC 001
HSC 500
HSC 503
HSC 521
HSC 530

2. Spring Year One

Pharmacology II
Biochemistry
Anatomy, Physiology, & Pathophysiology II

HSC 501
HSC 504
HSC 522

3. Summer Year One

Nursing Research I
Medical Physics

HSC 510
HSC 512

4. Fall Year Two

Nursing Research II
Anesthesia Didactics II

HSC 612
HSC 630

5. Spring Year Two

Advanced Theory and Practice of Anesthesia

HSC 655

Other Divisions

Programs of Study

Majors

Self-Designed Major
Undeclared

BA/BS
Associate

Minors

Sustainable Studies Minor

Other

Course Descriptions

AC 101 **Accounting Concepts** **3 credits** **Fall/Spring**

This course introduces the student to financial and management accounting in a business setting. Course materials are specifically designed to provide the non-Business major with a generalist's understanding of accounting procedures and principles and how those procedures and principles affect organizational operations and management planning. Topics include accounts and financial statements, evaluating operations, inventory systems, receivables, and depreciation methods. For NON-Business Majors Only

AC 203 **Accounting I** **3 credit hours** **Fall/Spring**

An introduction to accounting principles and bookkeeping methods, including the theory of debit and credit, financial statements and adjusting and closing entries. Topics also covered include: accounting for merchandising operations including inventory systems and cost flow assumption, internal control systems, bank reconcillations, and receivables.

AC 204 **Accounting II** **3 credit hours** **Fall/Spring**

This second semester of accounting emphasizes the analysis and use of equity accounts and the interpretation of financial information. Topics covered include short-term liabilities, the statement of cash flows, partnerships, corporate transactions, and long-term assets.

PreRequisites: AC 203

AC 213 **Managerial Accounting** **3 credit hours** **Fall/Spring**

A study of a manager's use of financial reports and data in the controlling function. Analysis of financial statements, use of budgets and budgeting techniques for operations, and capital acquisitions will be treated. Costing methods will be explored.

PreRequisites: AC 203

AC 225 **Accounting with Computers** **3 credit hours** **Fall**

This course provides hands-on experience of the integration of computers into the accounting field. The student will work through a complete accounting cycle using a full-featured commercial accounting software package. Other topics include sales and receivables, inventory, plant assets and depreciation, payables, payroll, and job costing. Emphasis will be placed on the preparation of accounting information and its subsequent uses, as well as the instruction of advanced skills needed to use spreadsheet software to prepare schedules commonly found in an accounting environment.

PreRequisites: AC 203, IST105

AC 301
Taxation I
3 credit hours
Fall

A study of the basic principles of federal taxation. Areas studied include types of returns, includable and excludable income, expense deductions, inventory methods, depreciation methods and accounting methods.

PreRequisites: AC 203 & AC 204

AC 302
Taxation II
3 credit hours
Spring

An advanced course expanding on the principles of tax law learned in Taxation I to include taxation of corporations, estates and trusts, partnerships, limited partnerships and foreign operations of various entities. Tax planning and research methodology are emphasized as solutions to complex tax questions arising from topical discussions.

PreRequisites: AC 301

AC 311
Intermediate Accounting I
3 credit hours
Fall

A comprehensive study of accounting theory and practice problems related to cash, temporary investments, receivables, inventories and long-lived assets. Students examine the nature, composition, valuation and balance sheet classification of these items.

PreRequisites: AC 203 & AC 204

AC 312
Intermediate Accounting II
3 credit hours
Spring

The second semester of intermediate accounting deals with accounting theory and practice problems related to intangibles, bonds, partnerships, corporations and analysis of working capital. Discussion and applied practice supplement the study of the nature, composition, valuation and balance sheet classification of these items. Students prepare comparative financial statements.

PreRequisites: AC 311

AC 314
Cost Accounting
3 credit hours
Spring

A continuation of the study of cost accounting theory and practice through its application to such advanced level topics as budgeting, standard cost, direct and absorption cost, cost/profit volume analysis and strategic planning programs.

AC 401
Advanced Accounting
3 credit hours
Spring

An examination of current generally accepted accounting principles as they relate to special areas including business combinations, governmental, and not-for-profit organizations.

PreRequisites: AC 212

AC 402
Auditing
3 credit hours
Fall

Provides a thorough knowledge of auditing through the application of auditing principles and an understanding of auditing standards.

PreRequisites: AC 311 & AC 312

AC 451
Accounting Internship I
3-6 credit hours
Fall/Spring/Summer

A field experience in an accounting position, supervised by field instructor as well as college faculty. The internship is designed to increase understanding of accounting and the accounting-related issues and perspectives as they relate to the business and social environment.

PreRequisites: junior or senior status

AH 117
Art History I
3 credit hours
As required

A survey of world art from prehistoric to late Gothic eras as well as an examination of the interaction of the social, political and economic forces that effected the production and appearance of such arts as painting, sculpture, architecture and the minor arts. Lectures, slides, discussion and field trips are utilized. Core Course.

AH 118
History of Art II: Renaissance to Modern
3 credit hours
Spring

A survey of world art from early Renaissance to the present day. Emphasis is on cause and effect in the various historical and technological developments of art. Lecture, discussion, slides, film strips and field trips are part of the course. Core Course

AH 202
History of Graphic Design
3 credit hours
Fall

A survey of the history of graphic design from the invention of writing to the twentieth century. Emphasis will be given to the evolution of graphic communication and will include the origins of printing and typography. The impact of the industry on visual communication and the development of modern graphic design will also be presented.

AH 316
History of Film
3 credit hours
Fall

The course attempts to make the student more aware of the medium as well as its place in the development of our culture. While the approach is historical, emphasis is placed upon development of the student's visual literacy. Additionally, important topics such as censorship and film propaganda are discussed. Cross-listed with GCD 316

AM 101
Introduction to Administration and Management
3 credit hours
Fall

An introduction to the field of administration and management, focusing specifically on the area of business administration. The functional areas of business such as marketing, finance, personnel and production will be reviewed together with subjects such as economics, accounting and computers.

AM 105
Macroeconomics
3 credit hours
Fall

An introductory economics course focusing on the field of macroeconomics, including government spending, money, inflation, unemployment and taxes. Also included are brief sections on microeconomic and economic systems. Core Course.

AM 106
Microeconomics
3 credit hours
Spring

An introductory economics course focusing on the field of microeconomics. Price, cost and production theory are covered in relation to competitive, monopolistic and oligopolistic industry structure. The field of labor economics is treated in some detail. Some advanced macroeconomics topics are also covered. Core Course.

AM 118
Fundamentals of Management
3 credit hours
Fall

An introduction to the three major schools of management thought: the classical, the behavioral and the management science schools. The major emphasis is on the fundamentals of each school of thought and also on the integrative approach to management, drawing on the systems and contingency approaches.

AM 209
Business Law I
3 credit hours
Fall

Introduction to law and legal procedure. Contracts, their nature and requisites formation, operations, interpretation, discharge and remedies are discussed.

AM 210
Business Law II
3 credit hours
Spring

Study of sales: Article 2 of the Uniform Commercial Code, transfer of title, warranties, rights and remedies of buyer and seller; Commercial paper; Article 3 of the Uniform Commercial Code and Article 4 of the Uniform Commercial Code: Bank Deposits.

PreRequisites: AM 209

AM 218
Organizational Behavior
3 credit hours
Fall

This course provides an in-depth examination of organizational behavior from a macro-perspective. This course includes a review of the research on organizational structure, technology and the environment, as well as their relationship and the implications for effective organizational design. Also included in the course are discussions of organizational goals and effectiveness, organizational culture, organizational conflict and politics, and alternative organizational structure in the U.S. and abroad.

PreRequisites: AM 118

AM 225
Human Resources Administration
3 credit hours
Fall

A study of the basics of human resources management including planning, recruitment selection, motivation and performance appraisal. Also treated are salary benefits systems and an introduction to EEOC and OSHA law.

PreRequisites: AM 118

AM 310
Business Organization & Regulation
3 credit hours
As required

This course studies the concepts of Unincorporated Business Association and Corporations. It also provides an overview of the issues relating to the Regulation of Business.

PreRequisites: AM 209

AM 315
Project Management
3 credit hours
As required

This course presents a comprehensive introduction to Project Management. The task of managing projects and the challenges facing project workers are examined in the context of new realities, requirements, opportunities and problems developing in the business environment. In addition to the traditional concerns of project management involving time, budget and specifications management, quality management, contract/procurement management and communication management as they affect the management of projects in the modern work place.

AM 324
Professional Presentations
3 credit hours
Fall

This course is designed to provide students in the professional areas with training in preparing and giving professional presentations. Students will develop skills in audience/client assessment, research, presentation design and development, using presentation tools and presentation evaluation.

PreRequisites: JR status

AM 340
Innovation and Entrepreneurship
3 credit hours
Spring

This course will focus on the entrepreneurial process—from ideation to the implementation of a new business venture. It will concentrate on the behavioral aspects of entrepreneurs, the identification and assessment of opportunities and the marshalling of resources and skills necessary to implement the identified opportunity.

PreRequisites: junior status, Non A&M majors, AM 101 or equivalent or permission of the instructor

AM 420
Operations Management
3 credit hours
Fall

Study is given to the basic operations, functions and procedures. An analytical approach is utilized with emphasis on problem solving. Modern management science techniques such as linear programming, PERT and inventory control models are presented.

PreRequisites: JR status, one math course & computer literacy

AM 440
Topics and Issues in Administration and Management
3 credit hours
As required

This course will provide an in-depth examination of selected topics and issues in the field of administration and management. Topics to be examined on a rotating basis to include: ethics in business, history of business, government regulation and business, theory and process of decision-making and current issues in human resource management.

PreRequisites: junior or senior status.

AM 455
Seminar-Business Policy
3 credit hours
Fall

An intensive culmination and synthesization of the study of administration and management consisting of readings, case study and class discussion. The primary emphasis is on the development of the skills of strategic analysis from the viewpoint of the general manager.

PreRequisites: SR status in administration & management division with completion of all required courses or permission of instructor

BL 337
Biochemistry Laboratory
1 credit hour
Fall

An introduction to current biochemical techniques including thin layer and column and gas chromatography, electrophoresis, spectrophotometry, and DNA technology.

PreRequisites: CH 210 or CH 215 CoRequisite: BL 336

BL 100
Life Science Lab
1 credit hour
Fall

The laboratory course will conduct experiments that demonstrate the underlying principles associated with topics presented in BL 101, Life Science. This course is designed for students majoring in Radiologic Technology, or consent of instructor and is not open to science majors.

BL 101
Life Science
3 credit hours
Fall (as required)

An introductory course directed toward the development of an answer to the question: What is life? The course explores various life processes and the human person's position in the total scheme. Emphasis is placed on current scientific discoveries. This course is not open to science majors
Cross-listed with SELSCI-011

BL 102
Introduction to the Human Body Systems That Move You
3 credit hours
Fall (even years)

This course will explore the basic concepts of human anatomy and physiology of the body systems responsible for movement. Specifically, the structure, function, interrelationships, and control of the skeletal, skeletal muscle, and nervous systems will be studied. This course is designed for students majoring in dance.

BL 103
General Biology I
3 credit hours
Fall/Spring

A presentation of a comprehensive survey of the major area within modern biology with emphasis placed on unsolved problems and the nature of scientific evidence. The course explores the properties of living matter on the molecular, cellular and organismic level. Open to all science majors and non-science majors with a strong interest in biology or a professional need.

PreRequisites: coreq: BL 105

BL 103R
General Biology I - Recitation
0 credit hours
As required

Required recitation for BL 103

PreRequisites: Coreq: BL 103

BL 104
General Biology II
3 credit hours
Fall/Spring

A presentation of a comprehensive survey of the major area within modern biology with emphasis placed on unsolved problems and the nature of scientific evidence. The course explores the properties of living matter on the molecular, cellular and organismic level. Open to all science majors and non-science majors with a strong interest in biology or a professional need.

PreRequisites: BL 103 & BL 105, coreq: BL 106

BL 104R
General Biology II - Recitation
0 credit hours
As required

Required Recitation for BL 104

PreRequisites: coreq: BL 104

BL 105
General Biology Laboratory I
1 credit hour
Fall/Spring

Selected experiments chosen to emphasize principles presented in the General Biology lecture courses.

PreRequisites: coreq: BL 103

BL 106
General Biology Laboratory II
1 credit hour
Fall/Spring

Selected experiments chosen to emphasize principles presented in the General Biology lecture courses.

PreRequisites: BL 103 & BL 105, coreq: BL 104

BL 115
Microbiology for Health Sciences
4 credit hours
Fall (as required)

The primary effort of this course will be to provide the student with practical and clinically relevant information about microbes through lectures and laboratory exercises. Students will be introduced to basic facts about the structure and life processes of microbes. Major emphasis will be placed on relationships between microbes and humans, causes and diagnosis of microbial diseases, common sources of infections, disease transmission, and the prevention and treatment of infectious diseases. The tools and techniques for handling and identifying microorganisms will be introduced in the laboratory exercises.

PreRequisites: Enrollment in nursing or other health sciences program.

BL 120
Medical Terminology
3 credit hours
Spring

This course will introduce the language of medicine through the analysis of medical terminology structure and the understanding of the definition, spelling and pronunciation of medical terms.

BL 123
Anatomy & Physiology I
4 credit hours
Fall/Spring

A basic course concerned with the structural and physiological processes of the human body. Interdependence of structure and function is stressed to promote better understanding of the entire body environment. Lecture and laboratory courses.

BL 123L
Human Anatomy and Physiology Lab I
0 credit hours
Fall/Spring

Laboratory for BL 123L: Anatomy & Physiology I.

BL 124
Anatomy & Physiology II
4 credit hours
Spring/Summer

The second of two basic courses concerned with the structural and physiological processes of the human body. Interdependence of structure and function is stressed to promote better understanding of the entire body environment. Lecture and laboratory courses.

PreRequisites: BL 123

BL 124L
Human Anatomy & Physiology II Laboratory
0 credit hours
Spring/Summer

Laboratory for BL 124: Anatomy and Physiology II.

BL 221
Comparative Vertebrate Anatomy & Physiology I
4 credit hours
Fall (odd years)

A comparative study of the structural and functional characteristics of vertebrates tracing the evolution of animals from primitive chordates to mammals. Emphasis is placed on the physical and chemical operations of vertebrates and how these operations contribute to homeostasis. Structural/functional relationships are discussed. Lecture and laboratory courses.

Prerequisites: BL 103,104,105,106

BL 222
Comparative Vertebrate Anatomy & Physiology II
4 credit hours
Spring (even years)

A comparative study of the structural and functional characteristics of vertebrates tracing the evolution of animals from primitive chordates to mammals. Emphasis is placed on the physical and chemical operations of vertebrates and how these operations contribute to homeostasis. Structural/functional relationships are discussed. Lecture and laboratory courses.

Prerequisites: BL 221

BL 225
Microbiology
4 credit hours
Spring (odd years)

An examination of the morphology and physiology of microorganisms with emphasis on their relationship to their environment. Topics include food, water, soil, industrial, and medical microbiology, microbial genetics, and microbial diversity. The laboratory work introduces the student to both the organisms and the techniques necessary to study them. Lecture and laboratory course.

Prerequisites: BL 103, 104, 105, 106.

BL 225L
Microbiology Laboratory
0 credit hours
Spring (odd years)

Laboratory for BL 225: Microbiology.

BL 313
Genetics
3 credit hours
Spring (even years)

A study of the basic principles of heredity including Mendelian, molecular and population genetics. Topics will include the cellular functions that give rise to inherited traits, the genetic basis for evolution, the role of genetics in biotechnology, and the statistical basis for predicting the probability of inheriting certain traits.

Prerequisites: BL 103, 104, 105, 106.

BL 314
Genetics Laboratory
1 credit hour
Spring (even years)

Selected experiments will emphasize the principles presented in the lecture course.

Prerequisites: BL 103, BL 104, BL 105, BL 106; Co-requisite: BL 313.

BL 326
Cell Biology
3 credit hours
Fall

A survey course in cell biology. The ultra structure of the Eukaryotic plant and animal cell are examined and related to cell function. Special emphasis is placed on membrane structure and functions.

Prerequisites: BL 103, 104, 105, 106.

BL 328
Special Topics in Biology/Chemistry
1-4 credits hours
As required

This special topics course is an examination of how microbes cause disease, particularly in humans. The course focuses on the basic principles of pathogenesis and provides examples of the disease process caused by certain bacteria, viruses, fungi and protozoa.

PreRequisites: BL 104, BL 106, CH102 & CH104

BL 336
Biochemistry I
3 credit hours
Fall

An introduction to the biochemical metabolism of the living cell. Cellular structure, macromolecules, metabolic pathways, energy transformations, regulatory mechanisms and molecular genetics are discussed.

PreRequisites: CH 210 or CH 215

BL 338
Biochemistry II
3 credit hours
Spring

A continuation of BL/CH 336. The course covers advanced aspects of macromolecular structure, regulatory enzymes, intermediary metabolism (to include photosynthesis, biological oxidation and the chemosmotic theory, metabolic control mechanisms), signal transduction and hormonal regulation of metabolism, and molecular aspects of the nucleic acids and genetic engineering.

PreRequisites: CH 216

BL 419
Immunology
3 credit hours
Fall (even years)

This course involves the description and development of the immune system, which includes the chemical, molecular, and cellular basis of immune reactions. The genetic and chemical control of the immune response is a recurrent theme of the course. Major topics covered in the course include specific immunities, types of hypersensitivity, autoimmunity, transplantation and rejection and immune disorders and deficiencies.

PreRequisites: BL 104, BL 106, CH 102, CH 104

BL 420
Immunology Laboratory
1 credit hour
Fall (even years)

This course introduces laboratory techniques in immunology.

PreRequisites: BL 104, BL 106, CH 102, CH 104; CoReq: BL 419

BL 430
Molecular Biology
3 credit hours
Fall (odd years)

Molecular Biology is an introduction to the study of selected biological processes from a molecular perspective. Both eukaryotes and prokaryotes will be included. The molecular basis of the biosynthesis of macromolecules, intercellular and intracellular communication, genetics, immunology, infectious diseases and cancer will be discussed.

PreRequisites: BL 103, BL 104, BL 105, BL 106, CH 101, CH 102, CH 103, CH 104, CH 215.

BL 431
Molecular Biology Laboratory
1 credit hour
Fall (odd years)

Molecular Biology Laboratory is an introduction to current molecular biology techniques including DNA and RNA extraction from cells, recombinant DNA cloning, electrophoresis and nucleic acid hybridizations (Southern blots and Northern blots), polymerase chain reaction and DNA sequencing. A project-based approach will be used. Both eukaryotes and prokaryotes will be studied.

PreRequisites: BL 103, BL 104, BL 105, BL 106, CH 101, CH 102, CH 103, CH 104, CH 215; Co-Requisites: BL 430.

BL 455
Seminar in Biology I
1 credit hour
Fall

The course consists of meetings for discussion of special topics selected from various areas of scientific investigation of recent or historical origin. Reports are given on results of literature studies.

Prerequisites: BL 103, BL 104, BL 105, BL 106, and junior or senior status

BL 459
Seminar in Biology/Chemistry II
1 credit hour
Spring

The course consists of meetings for discussion of special topics selected from various areas of scientific investigation of recent or historical origin. Reports are given on results of literature studies.

Prerequisites: BL 103, BL 104, BL 105, BL 106, and junior or senior status.

CH 101
General Chemistry I
3 credit hours
Fall

A study of the basic principles governing matter, energy and matter-energy interaction. Topics include atomic structure, bonding theory, aggregated states of matter, stoichiometry, thermodynamics, chemical kinetics, chemical equilibrium and electrochemistry.

CH 101R
General Chemistry I-Recitation
1 credit hour
Fall/Spring

Required Recitation for CH 101

Prerequisites: coreq: CH 101

CH 102
General Chemistry II
3 credit hours
Fall

A study of the basic principles governing matter, energy and matter-energy interaction. Topics include atomic structure, bonding theory, aggregated states of matter, stoichiometry, thermodynamics, chemical kinetics, chemical equilibrium and electrochemistry.

CH 102R
General Chemistry II-Recitation
1 credit hour
Fall/Spring

Required Recitation for CH 102

Prerequisites: coreq: CH102

CH 103
General Chemistry Laboratory I
1 credit hour
Fall

A series of experiments related to the content of CH 101 emphasizing laboratory techniques and familiarization with basic laboratory equipment. Open to all science majors and non-science majors with a strong interest in chemistry or a professional need.

Prerequisites: coreq: CH 101

CH 104
General Chemistry Laboratory II
1 credit hour
Fall

A series of experiments related to the content of CH 102, emphasizing laboratory techniques and familiarization with basic laboratory equipment. Open to all science majors and non-science majors with a strong interest in chemistry or a professional need.

PreRequisites: CH 101 & CH 103, coreq: CH 102

CH 107
Principles of Chemistry I
3 credit hours
Fall

An introduction to the basic principles of general, organic and biochemistry. The principles are related to living systems including the properties and metabolism of proteins, carbohydrates, lipids and nucleic acids. Lecture and laboratory course. Cross-listed with SELSCI-008

CH 215
Organic Chemistry I
3 credit hours
Fall/Spring

A study of the classification and characterization of organic compounds, their preparation, properties and reactions. The application of modern organic theories to these subjects is stressed. Topics include nomenclature, bond theory, stereochemistry, synthesis, mechanisms, and structure determination by instrumental methods. Lecture and laboratory course.

PreRequisites: CH 102

CH 215L
Organic Chemistry I-Laboratory
1 credit hour
Fall/Spring

Laboratory for CH 215

PreRequisites: coreq: CH 215

CH 216
Organic Chemistry II
3 credit hours
Fall/Spring

A study of the classification and characterization of organic compounds, their preparation, properties and reactions. The application of modern organic theories to these subjects is stressed. Topics include nomenclature, bond theory, stereochemistry, synthesis, mechanisms, and structure determination by instrumental methods. Lecture and laboratory course.

PreRequisites: CH 215

CH 216L
Organic Chemistry II-Laboratory
1 credit hour
Fall/Spring

Laboratory for CH 216

PreRequisites: coreq; CH 216

CH 2XX
Chemistry Elective
3 credit hours
As required

Any 200-level chemistry course not listed as a required course in the major.

CH 311
Analytical Chemistry I
4 credit hours
Fall

A study of the application of theoretical principles to quantitative analysis. The concept of chemical equilibrium is thoroughly discussed. Current analytical techniques are presented both in lecture and laboratory. Topics include the theory and practice of gravimetric analysis, volumetric analysis, spectrophotometric analysis and gas chromatography. Lecture and laboratory course.

PreRequisites: CH 216, MT 110, MT 224.

CH 311L
Analytical Chemistry Laboratory
0 credit hours
Fall

Laboratory for CH 311

CH 312
Analytical Chemistry II
4 credit hours
Spring

The fundamental principles and instrumentation used in optical spectroscopy, chromatography, nuclear magnetic resonance spectrometry, mass spectrometry, and electroanalytical chemistry are explored. Practical aspects such as data acquisition and analysis, operating characteristics, sensitivity and selectivity of instrumentation used by physical and biological scientists are examined. Lecture and laboratory course.

PreRequisites: CH 311.

CH 312L
Analytical Chemistry II Laboratory
0 credit hours
Spring

Laboratory for CH 312: Analytical Chemistry II.

CH 315
Polymer Chemistry
3 credit hours
Fall

A lecture course designed as an introduction to the field of polymer science from its origins to its place in current chemical research. Content will include the synthesis and physical chemistry of the important polymer types, key concepts of macromolecular science, and the role of the journal and patent literature in polymer related research and engineering.

PreRequisites: CH 215 and 216

CH 326
Inorganic Chemistry
3 credit hours
Spring (even years)

This course addresses structure and bonding in inorganic compounds, with an emphasis on the transition metals. It includes an introduction to group theory and related symmetry studies. The spectroscopy of inorganic compounds is also explored. A discussion of semiconductors is included.

PreRequisites: CH 312.

CH 336
Biochemistry I
3 credit hours
Fall

An introduction to the biochemical metabolism of the living cell. Cellular structure, macromolecules, metabolic pathways, energy transformations, regulatory mechanisms and molecular genetics are discussed.

PreRequisites: CH 210 or CH 215

CH 337
Biochemistry Laboratory
1 credit hour
Fall

An introduction to current biochemical techniques including thin layer and column and gas chromatography, electrophoresis, spectrophotometry, and DNA technology.

PreRequisites: CH210 or CH 215, Coreq. CH 336.

CH 3XX
Chemistry Elective
3 credit hours
As required

Any 300-level chemistry course not required in the major.

CH 432
Physical Chemistry I
4 credit hours
Fall/Spring

A study of the physical properties of matter, the structure of matter and the theories of chemical interactions. Topics include ideal and real gases, liquids, solids, thermodynamics, chemical equilibria, phase equilibria, chemical kinetics, quantum mechanics, atomic and molecular structure and spectroscopic methods. Lecture and laboratory course.

PreRequisites: CH 102, MT 211, MT 212

CH 432L
Physical Chemistry Laboratory
0 credit hours
Fall

Laboratory for CH 432

PreRequisites: coreq: CH 432

CH 433
Physical Chemistry II
4 credit hours
Fall/Spring

A study of the physical properties of matter, the structure of matter and the theories of chemical interactions. Topics include ideal and real gases, liquids, solids, thermodynamics, chemical equilibria, phase equilibria, chemical kinetics, quantum mechanics, atomic and molecular structure and spectroscopic methods. Lecture and laboratory course.

PreRequisites: CH 432

CH 433L
Physical Chemistry II Laboratory
0 credit hours
Spring

Laboratory for CH 433

PreRequisites: coreq: CH 433

CH 455
Seminar in Chemistry I
1 credit hour
Fall

The course consists of meetings for discussion of special topics selected from various areas of scientific investigation of recent or historical origin. Reports are given on results of literature studies. One hour per week.

PreRequisites: BL 103, 104, 105, 106, or CH 101, 102; junior or senior status.

CH 456
Research in Chemistry
2-4 credit hours
As required

A research project designed to explore an unanswered question and to contribute to the existing body of knowledge in the field. The student will plan and carry out the project with the assistance of a faculty supervisor. A maximum of 4 credit hours may be used as chemistry elective credit.

PreRequisites: junior or senior status and by permission of chemistry faculty.

CH 459
Seminar in Chemistry II
1 credit hour
Spring

The course consists of meetings for discussion of special topics selected from various areas of scientific investigation of recent or historical origin. Reports are given on results of literature studies. One hour per week.

PreRequisites: BL 103, 104, 105, 106, or CH 101, 102; junior or senior status.

CH 460
Forensic Chemistry
4 credit hours
Fall (even years)

This course focuses on the use of analytical instrumentation to examine materials related to criminal and other investigations. Methods of analyzing trace metals, accelerants, explosives, drugs, alcohol, and other toxic materials will be presented. Sample preparation and analysis according to currently accepted methods will be included. The course will include both a lecture and a laboratory component.

PreRequisites: or corequisite: CH311 & CH311L

CH 460L
Forensic Chemistry Laboratory
0 credit hours
Fall (even years)

Laboratory for CH460

PreRequisites: coreq: CH 460

CH 4XX
Chemistry Elective
3 credit hours
As required

Any 400-level chemistry course not required in the major.

COM 101
Introduction to Communication
3 credit hours
Fall/Spring

In this course the student examines human, verbal, non-verbal and visual communication. Through an interactive classroom the student will combine the theory and definitions of the text with their experience to clarify and understand the concepts that make up human communication. In the classroom, writing, making presentations, working in groups, solving problems and applying creativity to the concepts of communication will be some of the ways the students learn and reinforce the subject matter. Written papers, research and computer-mediated-communication further reinforce the concepts of the course and serve as a means of evaluation of the student's understanding and absorption of the material. Cross-listed with SELSOC-008

COM 102
Introduction to Mass Communication
3 credit hours
Spring

The subject matter of this course is the history and development of mass communication. The course will include examining the origin, economics, technology, mode of communication, communication effectiveness, social role and future of a variety of communication media including: newspapers, magazines, books, radio, television, film and computer-mediated-communication.

COM 201
Introduction to Organizational Communication
3 credit hours
Spring

This course provides an overview of the interaction of structure, culture, technology, and communication in organizations. Classes will focus on case studies of the structures and culture of "new technology" organizations and the dynamic encountered when new technology meets "old economy" culture. Within this course the student will also practice specific communication skills such as preparation for job interviews, performance appraisals, professional presentations, and negotiation.

COM 203
Intercultural Communication
3 credit hours
Fall

This course begins with a focus study on communication factors which affect any cross-cultural interpersonal interaction. The students then survey specific differences between U.S. cultural customs and those of countries presently involved in La Roche's Pacem In Terris Institute. Finally, the role of the media in intercultural relations is discussed. Cross-listed with IS 203

PreRequisites: COM 101/SELSOC-008

COM 204
Fundamentals of Communication for Design Professionals
3 credit hours
As required

The goal of this course is to introduce graphic design majors to career-relevant theories and practices of interpersonal and related mediated communication. Emphasis will be on designer-client and creative-team communication. Course content will include basic communication theory, the roles of non-verbal communication and language in professional communication, building professional relationships, teamwork and brainstorming, conflict management strategies, and cultural influences in design concepts and process. Students will integrate these concepts through class projects, which include writing, speaking, problem-solving and presentations.

PreRequisites: Sophomore status

COM 205
Communication Theory and Research
3 credit hours
Fall

Communications research is an integral part of all types of mass communications endeavors. Much of what is eventually produced for mass consumption is at least somewhat the product of research. Students will learn how to read and understand communications research of various types including surveys and content analyses. The class will also participate in designing and conducting communications research.

PreRequisites: COM 101 and COM 102

COM 301
Critical Evaluation of Mass Media
3 credit hours
Fall

This course includes the study of mass media and the institutions of mass communication with the goal of providing students with the appropriate information with which to make informed and rational critical evaluations. Popular media such as radio, television, newspapers, magazines, Internet and film are examined.

PreRequisites: COM 101

COM 302
Emerging Communications Technology
3 credit hours
Fall

This course deals with the evolution of technology and the use of communications technology for business, entertainment and information. Through readings, discussion, group work and hands-on experience the class examines the social, cultural and economic aspects of communication technology.

PreRequisites: COM 101

COM 305
Message Design in Mass Communication
3 credit hours
Spring

This course is a broad examination of mass media as "message design" with an emphasis on understanding the visual, aural and contextual aspects of a variety of communications media such as: film, video, print media, outdoor advertising and web pages. Elements of control in message design, as well as conceptual frameworks in popular culture, will be addressed from still and moving images, to sound, color, texture and text. Message Design will prepare students entering fields of media production to understand the inherent meaning of every element of mass media construction.

PreRequisites: COM 101, COM 102, COM 301, and COM 302

COM 401
Legal Issues in Mass Communication
3 credit hours
Fall

This course will examine the laws and rules affecting various types of mass communication industries in the United States, i.e., broadcasting, cable communication, the Internet, advertising and journalism. The roles of the public, political leaders, research groups, the Federal Communication Commission (FCC), the Federal Trade Commission (FTC), the First Amendment and the Supreme Court will be examined.

PreRequisites: COM 101, COM 102, COM 301 and COM 302

COM 402
Broadcast Media
3 credit hours
Fall

This course overviews the television, radio and cable television industries and the economic, regulatory, technological and legal forces on them. The course also deals with aspects of production in television, radio and cable programming such as newscasts, interviews, advertising, entertainment and public service programming.

PreRequisites: COM 305

COM 450
Senior Focus Project
3 credit hours
Fall/Spring

As a part of each Communication, Media, and Technology student's program, they are required to design and complete a focus project in the specific area of their choice. Similar to a "Senior Thesis," the focus project should be a capstone for study in Communication, Media, and Technology and bring multiple elements together into a substantial research and/or production project. Individual project design requires faculty approval. Successful evaluation includes the participation of a local professional in the student's chosen area.

PreRequisites: Senior status

COM 451
Communication Internship I
0-6 Credit hours
As required

A practical work experience in a field setting which deals with communication. The student is given the opportunity to integrate his/her theoretical and practical knowledge under the supervision of professionals in the field of communication. This internship must be taken in the student's track specialization.

PreRequisites: junior or senior status

COM/PFM 315
Filmmaking I
3 credit hours
Fall

This is a workshop course for beginners in Filmmaking. Students will make both narrative and non-narrative films that deal with issues such as composition, camera movement, editing and time/space manipulation. During the course each student will produce two or three short super 8mm films. Basic film terms, the development of a visual language of film and creative uses of the medium are stressed. This course is taught at Pittsburgh Filmmakers.

PreRequisites: COM 101

COM/PFM 316
Filmmaking II
3 credit hours
Fall

This course is designed to develop student experience and understanding of filmmaking. Each student will make two self-scripted super 8mm films using a simple soundtrack with music and sound effects. Students will be introduced to 16mm concepts and procedures during this course while working in the less expensive super 8mm format. This course is taught at Pittsburgh Filmmakers.

PreRequisites: COM/PFM 315

CRIM 100
CSI: La Roche
3 credits hours
Summer

This course is a 6-day forensic event for students interested in crime scene investigations and the scientific analysis of trace evidence. Participants will investigate simulated crime scenes, analyze the evidence, solve the mock crime, and present their evidence at a mock trial. Students will be exposed to the theories underlying the analysis as well as direct hands-on experience with investigative procedures. Participants will also work directly with state-of-the art spectroscopy, chromatography, and DNA profiling instruments and equipment. This course is designed for high school juniors and seniors or college freshman interested in biology, chemistry and criminal justice.

CRIM 101
Introduction to the Criminal Justice System
3 credit hours
Fall/Spring

This introductory course will introduce criminal justice as a system that is an institutional agent of American society. The components of police, courts, and corrections are discussed with the goal of defining their function and purpose and interdependence on one another. The patterns of crime and the processes of the American Criminal Justice System, law enforcement, judicial process, and corrections will be examined. Students will learn the terminology of the field, examine the methods of inquiry used in the field, and learn the objectives, policies and procedures of probation, parole, and prisons as well as some of the issues and problems.

CRIM 205
Constitutional Law
3 credit hours
Spring(every third year)

This course will explore the difficulty in interpreting the meaning of constitutional language. The interpretive role of the U.S. Supreme Court will be studied through an examination of landmark constitutional decisions. The major schools of thought that guide interpretation will also be studied. Cross-listed with PS 205

PreRequisites: PS 115, PS 122

CRIM 210
Introduction to Corrections
3 credit hours
As required

The evolution of corrections from punishment to rehabilitation is examined with a look at the fundamental beginnings of the penitentiary to modern day institutions with civil and legal rights. This course also examines the purpose and evolution of corrections as an agent of punishment including the death penalty and its history in relation to society. The foremost groups involved in corrections from the Quakers and early Christians to modern groups will be reviewed. The development of probation and parole as alternatives to incarceration will also be examined.

CRIM 211
Intelligence Analysis and Presentation Techniques
3 credit hours
Spring

This course examines the process used by analysts to develop strategic intelligence. Students will participate throughout the course as a member of a group tasked to complete an estimative project. Students will learn to apply strategic theory to critical national security problems. Cross-listed with NSC 211

CRIM 212
Analysis of Criminal Justice Data
3 credit hours
As required

This course is primarily concerned with the ways and means of understanding drawing conclusions from criminal justice data. Students will learn to develop, use and evaluate studies of criminal justice data, and use their work to evaluate the effectiveness of criminal justice activities. Covered will be policy implications of various law enforcement techniques vis-a-vis their effectiveness in both short and long term. Students will work with and critique published criminological research and explore the use of data of a more local nature.

PreRequisites: CRIM 101, MT 110(A)

CRIM 218
Professional Responsibility: Legal & Ethical Concepts
3 credit hours
Fall (odd years)

This course examines the existent standards, codes, and laws pertaining to the legal and ethical conduct required of professionals working in the criminal justice and national security fields. Theoretical concepts will be explored, but the course will focus on the application of legal and ethical constructs to the everyday behavior of justice system professionals.

PreRequisites: SELECT Philosophy\Religion, CRIM 101

CRIM 300
Correctional Counseling
3 credit hours
As required

This course examines the personality issues unique to the offender population that the parole/probation professional must address in an attempt to change attitudes and behaviors. The imperative is to reduce the rate of recidivism by applying field-tested approaches and techniques in the settings within the criminal justice system and in their residences. The distinguishing characteristics of therapy, counseling and the need for communication skills are examined. The course examines the competing philosophies of crime control and due process. Mental health, chemical addiction/use and socio-economic problems of the offender population are addressed, as is the important needs of the safety of the field investigator and the evaluation of the client's needs and risks.

PreRequisites: Junior or senior status.

CRIM 310
Criminal Law
3 credit hours
Spring (odd years)

The basic principles of substantive criminal law will be illustrated. Concepts and patterns of criminal law and procedure will be discussed. The elements of specific crimes will be analyzed through case study. Public policy and the legal principles for determining criminal and civil liability will be considered.

PreRequisites: CRIM 101.

CRIM 320
Special Topics in Criminal Justice
3 credit hours
As required

A collection of selected topics in the field of criminal justice. These will be topics of special interest to practitioners in this field. Possible topics include: Advanced Investigations, Crime Scene Photography, Forensic Accounting and White Collar Crime Correction, as well as other topics of special interest.

CRIM 334
Enterprise & Transnational Crime
3 credit hours
Fall (odd years)

The course addresses organized crime in the United States and internationally. It presents organized crime as criminal business ventures that meet the demand of its consumer base and/or engages in activities that provide profits both legal and illicit into the organization. International crime is introduced, demonstrating how organized crime networks transcend national borders, and how individual criminals have learned to use the ease of travel and identity falsification to operate in or conceal themselves from national law enforcement. Law enforcement strategies and their effectiveness are covered.

PreRequisites: CRIM 101 or SOC 121 or PSY 121

CRIM 336
Terrorism
3 credit hours
Fall (even years)

This course addresses the historical and current-day development and spread of terrorism. The class investigates the goals of terrorism and the social, political and ideological reasons for the use of terrorism. Counter-terrorist activities and preventive measures are explored. The class will also address the case of serial killers and those who commit acts of violence that may claim many killed or injured. These acts may be used by organized terrorists or by criminals with a personal agenda. The course will address law enforcement responses to incidents of terrorism or mass murder.

PreRequisites: CRIM 101 or SOC 121

CRIM 340
Crime Scene & Forensics Laboratory
3 credit hours
Fall/Spring

Basic Procedures in the investigation of a crime scene. Emphasis will be on the detection of evidence and preservation of that evidence at the crime scene. Theories of information, observation and interrogation, will be discussed. The ethics of investigative procedures and the methods of obtaining evidence will be emphasized. Forensic analysis techniques will be studied.

PreRequisites: CRIM 101

CRIM 341
Criminalistics
4 credit hours
Spring (even years)

A comprehensive examination of the application of science to the physical evidence of a crime. Crime scene processing procedures will be linked to the laboratory analysis of physical evidence. The course will also include training in scientific report writing and courtroom testimony, to include a moot court exercise.

PreRequisites: CRIM 101, BL103, CH101

CRIM 342
Applied Criminology
3 credit hours
As required

This course is designed to examine crime and offender typologies and the investigative and legal methods that can be applied to prevent, resolve, or solve crimes committed by career offenders. An overview of the major theories or crime causation is furnished. An emphasis is placed on choice theory, routine activities theory, routine activities theory and their applied model-situational crime prevention. The topics of crisis negotiation, interpersonal conflict resolution, crime prevention, and informant development are explored and practical exercises are employed to enhance student understanding.

PreRequisites: CRIM 101

CRIM 343
Computer Crime
3 credit hours
Spring

A comprehensive examination of computer crime, information systems security and cyber law. The investigative process as applied to the cyber criminal will be emphasized. Statutes specific to cyber crime will be studied. Crime prevention strategies and techniques will be presented and applied using the case study method.

PreRequisites: CRIM 101 or CS Major

CRIM 345
Criminal Investigations
3 credit hours
Fall

This course covers the fundamentals of criminal investigation, including the essentials of securing a crime scene, modus operandi of perpetrators, sources of information, principles of careful observation and recording, follow-up and case preparation. Basic elements of the interviewing process and interrogation are covered. The need for careful observation, cultivating various sources of information and proper investigator response are addressed.

PreRequisites: CRIM 101

CRIM 346
Security Management & Loss Prevention
3 credit hours
As required

This course features an overview of public and private security, including history of private security and asset protection, the role of security in American society, and current industry practices. The course covers the security role in industry, business and government and includes loss prevention, control and risk management. The legal foundations of private security are covered, as is interaction with government law enforcement. Specialization and career opportunities are discussed.

PreRequisites: CRIM 101

CRIM 352
Administration of Criminal Justice Organizations
3 credit hours
As required

This course examines the principles of management and leadership as they relate to criminal justice organizations. Leadership, planning, and legal concepts are emphasized, and the case study method is employed as an applied learning tool.

PreRequisites: CRIM 101, CRIM 216

CRIM 354
Law Enforcement Communications: Interviewing, Note Taking and Report Writing
3 credit hours
Spring (odd years)

This course instructs students in the proper methodology of law enforcement communications. Students will be required to conduct interviews, effectively compile investigative notes, and reduce this information to a series of written and oral reports.

PreRequisites: EN 112, CRIM 101, CRIM 345

CRIM 412
Emergency Preparedness and Crisis Management
3 credit hours
Spring (even years)

This course examines the issues and processes associated with the most critical domains of security management. In particular, the course will focus on risk analysis, security surveys, response planning, and the principles of "all hazards" risk management.

PreRequisites: Junior status or FM Certificate student

CRIM 451
Internship in Criminal Justice
3 credit hours
Fall/Spring/Summer

A field course in which the student is actively involved in working in the community in a professional criminal justice agency. The student will meet periodically with a faculty mentor to examine the relationships between theoretical concepts and the field experience. A strong leadership and service-learning component will be integrated into the course.

PreRequisites: CRIM 101.

CRIM 455
Senior Criminal Justice Capstone
3 credit hours
Fall/Spring

The Senior Capstone course is the final correlating experience of the educational process for all criminal justice majors. Students will apply criminal justice theories and concepts in analyzing the published research concerning a critical issue in criminal justice and writing a comprehensive literature review of the selected issue. The student will also demonstrate, through test performance, the knowledge they have gained from the required courses of the criminal justice curriculum. Students will also participate in a variety of educational activities designed to assist them in obtaining employment in the criminal justice career field.

PreRequisites: CRIM 212, PSY 311 & Senior status

CRIM 457
Independent Study
1-6 credit hours
Fall/Spring/Summer

This course is limited to those few students who have demonstrated an unusual level of ability and an intense commitment to a particular area of study.

PreRequisites: CRIM 101

CS 102
Introduction to Computer Science
3 credit hours
Fall

This course is an introduction to the field of computer science. A scientific foundation of many aspects of CS will be developed upon which more advanced CS courses will build. Topics include: computer design, computer programming, information processing, algorithm design, operating systems, software engineering, and artificial intelligence. Cross-listed with SELSCI-012

CS 110
Programming I
3 credit hours
Spring

This course introduces the art of algorithm design and problem solving in the context of computer programming. The basic structure and logic of the Java language is presented. Topics covered include data types and operators, control flow, repetition and loop statements, arrays and pointers. Good programming practices will be taught and encouraged.

PreRequisites: CS 102

CS 110L
Programming I Lab
1 credit hour
Spring

Lab work for CS 110 Programming I

CS 210
Programming II
3 credit hours
Fall

This course is a follow-on to Programming I. Topics covered include structures, file input and output, and other advanced object-oriented programming concepts found in Java.

PreRequisites: CS 110

CS 210L
Programming II Lab
1 credit hour
Fall

Lab work for CS 210

CS 215
Discrete Structures I
3 credit hours
As required

The first half of a basic course dealing with the mathematics that is applicable to computer science. It provides an introduction to mathematical methods and covers such topics as: enumeration, set theory, mathematical logic, proof techniques, number systems, functions and relations, and Boolean algebra. Cross listed with MT 250

PreRequisites: MT 133

CS 216
Discrete Structures II
3 credit hours
As required

The second half of a basic course dealing with the mathematics that is applicable to computer science. Topics to be covered will include some or all of the following: combinatorics, discrete probability; graphs, trees, and relations, and models of computation such as grammars, finite-state machines, and Turing machines. Cross listed with MT 251

PreRequisites: CS 215 or MT 250

CS 220
Algorithm Analysis
3 credit hours
Spring (odd years)

This course teaches techniques of programming including data structures such as lists, stacks, and queues and algorithmic approaches such as recursion, searching and sorting. These techniques are learned through programming exercises as well as classroom study.

PreRequisites: CS 210

CS 225
Systems Programming
3 credit hours
Fall (every other)

This course will introduce the students to the important systems language, C, and to several topics related to the hardware and software environment. These are issues related to system interfaces and software synchronization provided by operating system, the linkage of operating system services to application software, and the fundamental mechanisms for computer communications.

PreRequisites: CS110, CS210, Coreq: CS225L

CS 225L
Systems Programming Lab
1 credit hour
As requested

This course will provide the hands-on laboratory component to the Systems Programming course which will introduce the students to the important systems language, C, and to several topics related to the hardware and software environment. These are issues related to system interfaces and software synchronization provided by the operating system, the linkage of operating system services to application software, and the fundamental mechanisms for computer communications.

PreRequisites: CS110, CS210, Coreq: CS 225

CS 235
Computer Organization & Design
3 credit hours
Spring (every other)

This course will introduce students to the function and design of digital computers. Topics covered include: Value representation, ALU structure and operation, simple digital electronics, basic assembly language programming, I/O and bus architectures, and complex processor architectures including virtual memory.

PreRequisites: CS 210

CS 255
Database Systems Theory
3 credit hours
Fall (every other)

This course is designed to present the essential concepts, principles, techniques, and mechanisms for the design, analysis, use, and implementation of computerized database systems. Key information management concepts and techniques are examined: database modeling and representation; information interfaces - access, query, and manipulation, implementation structures, and issues of distribution. The database and information management system technology examined in this course represents the state-of-the-art, including traditional approaches as well as recent research developments. The course should allow the student to understand, use, and build practical database systems. The course is intended to provide a basic understanding of the issues and problems involved in database systems, a knowledge of current practical techniques for satisfying the needs of such a system, and an indication of the current research approaches that are likely to provide a basis for tomorrow's solutions.

Prerequisites: CS 210

CS 340
Operating Systems
3 credit hours
As required

This course is an in-depth study of modern operating systems. Students will learn about the services provided by an operating system, how to use these services and how the services are implemented. Topics covered include: Initialization (boot), Processes, Controlling shared resources, Memory, Bulk storage systems, and Network Communications (TCP/IP) as they relate to the computer operating system.

Prerequisites: CS 235, (for FA09 only CS225)

CS 455
Advanced Database Theory
3 credit hours
As required

This course is a continuation of Database-Systems Theory. It concentrates on object-oriented database design, object relational design, data warehousing, data marts, and data mining. Emphasis will be placed on modeling languages such as UML, ODMG, as well as ODL and SQL3 standards. Also, Online Analytical Processing and its relationship to data warehousing, data mining, and decision support systems will be discussed.

CS 490
CS Senior Capstone Experience
1 credit hour
Spring

In development.

Prerequisites: Senior Status

CS 4XX
Computer Science-400 level
3 credits hours
As required

Any 400-level course in Computer Science

ED 210
Foundations of Education & Field Experience
4 credit hours
Fall/Spring

A study of the philosophy and history of education. Current trends and conditions in the public/private sector will be studied. Future trends in education will be investigated. A field experience is a required component of the course.

EED 310
Methods of Teaching and Evaluating English
3 credit hours
Fall

This course is designed to give the student a broad background in literature for children from pre-school through seventh grade, to explore assumptions that form the basis of what is the "best" literature for children, to practice creative projects designed to encourage and enrich reading, and to evaluate children's literature as an image-maker and means of transmitting values.

Prerequisites: EN 111, EN 112, EN 330

EED 330
Adolescent Literature
3 credit hours
Fall

This course is designed to give the prospective middle and/or high school English teacher a familiarity with the literature adolescents choose to read, enjoy, and find relevant to their lives. It will present the reasons why teenage readers make the choices that they do and review sources of materials teenagers will read with pleasure. It is also presented to help the prospective professional educator develop a positive attitude toward this kind of literature.

PreRequisites: EN 111, EN 112; for education majors or permission of instructor.

EL 440
Methods of Teaching Math
3 credit hours
Fall

This course provides the theoretical base of principles for teaching basic math and will demonstrate techniques of using a variety of materials and teaching strategies for elementary and early childhood students. Field placement experience required.

EL 440B
Teaching Math Practicum
3 credit hours
Fall

This course provides a weekly-supervised field placement practicum and seminar based on the Methods of Teaching Math Course. The student will be assigned a small group of children in which the college student will be required to diagnose the children's needs and then create and implement plans that focus on the diagnosis found.

EL 321A
Methods of Teaching Art
1.5 credit hours
Fall/Spring

This course will present strategies and techniques for an elementary or early childhood teacher to provide art experiences in a classroom and to integrate art with other content areas in the classroom. The student will be required to observe classroom teachers teaching art.

EL 340
Teaching Reading & Language Arts
3 credit hours
Fall

These courses provide a foundation for teaching of reading and various aspects of teaching language arts in pre-school through sixth grade for children of all abilities. The students will gain knowledge in the field of reading and language arts, the selection of effective materials, diagnostic procedures, and the use of various tests. They will be able to promote the effective language skills of listening, speaking, reading, and writing for the elementary school student.

EL 420
Methods of Teaching Science and Health
3 credit hours
Fall

This course will provide the pre-service elementary teacher with strategies and techniques for teaching the content subjects - specifically science and health. Emphasis will be on organizing subject matter and translating it to children through the students' participation in various methods of learning. An integral part of this course will be field experience in an elementary classroom with a content teacher.

EL 430
Methods of Teaching Social Studies
3 credit hours
Fall

This course will provide the pre-service elementary teacher with strategies and techniques for teaching social studies. Emphasis will be on organizing subject matter and translating it to children through a variety of methods, which address different learning styles. An integral part of the course will be field experience in an elementary classroom.

EL 450
Elementary Education Curriculum
3 credit hours
Fall

This course offers the student the opportunity to gain insights into the philosophy and objectives of the curriculum in the elementary school as well as to study classroom organization, materials, and instructional strategies that can be used in teaching the various subject areas of the elementary school. It will explore and offer the student techniques of dealing with discipline and other non-teaching duties of the elementary teacher. Field placement will be an integral part of the course.

EN 111
College Writing I
3 credit hours
Fall/Spring/Summer

This course engages students in the reading and writing practices essential to academic life by requiring students to read both with and against the grain of complex texts and to write in response to them.

EN 112
College Writing II
3 credit hours
Fall/Spring/Summer

This course is designed to teach concise and effective expository writing, focusing on various aspects of critical analysis and the documented research paper.

PreRequisites: EN 111

EN 150
Methods of Teaching Writing: Composition
1 credit hour
As required

This is the first in a series of four one-credit courses designed to prepare students to teach academic writing at the secondary or post-secondary levels and/or to work in a secondary or college writers' center.

EN 210
Introduction to Literary Study
3 credit hours
Spring

This seminar introduces students majoring in each of the three English programs to the study of literature as an academic discipline. Key literary terms and concepts (genre, style, figurative language, poetics, etc.), central tenets of literary-critical analysis (multiple interpretive strategies, schools of theory, etc.), and basic methodologies of literary study (research techniques, MLA-style documentation, etc.) will be covered. The course will thus prepare English majors at an early point in their careers to enter into the habits of thought and practice characteristic of their chosen field.

PreRequisites: EN 111

EN 221
World Literature I
3 credit hours
Fall (odd years)

A study of selected works in a variety of genres centered primarily around major literary movements from antiquity through the Renaissance. Cross-listed with SELLIT-002

EN 222
World Literature II
3 credit hours
Spring (even years)

A study of selected works in a variety of genres centered primarily around major literary movements from the Renaissance through contemporary literature.

EN 229
Business Communications
3 credit hours
Fall

A study of and practice in writing of business reports and letters of various types, including resumes and letters of application. The course includes practice in oral reports, conferences, job interviews and other situations, both written and oral, in which effective communication is required.

PreRequisites: EN 111

EN 230
Technical Writing
3 credit hours
Fall/Spring/Summer

Designed to apply the basic principles of communication to technical information so that the student can learn to present complex technical messages in the clearest possible way.

Prerequisites: EN 111, EN 112 or permission of the instructor

EN 236
Issues in American Literature I
3 credit hours
Fall (even years)

Literature from Puritan times up to the Civil War will be examined as it portrays such issues as responses to a new environment, ecology, ethnic and sexual stereotyping, literature as didactic message or entertainment, ethical choice, pessimistic and optimistic views of human nature. The course will also introduce basic technical elements for each genre used by American authors.

Prerequisites: Cross-listed with SELLIT-013

EN 239
Issues in American Literature II
3 credit hours
Spring (odd years)

Literature from the time of the Civil War to Post World War II will be examined as it portrays such issues as our pluralistic society, war, death, characters caught in a limiting environment, responses to the age of anxiety, protest, evolving attitudes toward male and female identity and relationships, ethical responsibility, disenchantment, reconciliation and the celebration of the human potential. The course will also introduce basic technical elements of each genre used by American authors. Cross-listed with SELLIT-011

EN 240
Creative Writing I
3 credit hours
Fall

A course designed to stimulate creative writing in prose and poetry with emphasis upon the short story.

Prerequisites: EN 111

EN 243
Film Analysis: Form, History, Ideology
3 credit hours
Fall (even years)

This course will introduce students to the terminology, methodologies, and practice of cinematic analysis. We will approach films as complex, multi-layered texts that can be viewed through diverse, intersecting lenses; beginning with an examination of the form principles of film, we will progress to a consideration of film as historical, cultural, and ideological product, one that both shapes and is shaped by the beliefs and practices of the cultures in which it is generated. Class time will be divided between film viewing and film analysis, the ultimate purpose of the course being to prepare students to become active, critical viewers of film.

Prerequisites: EN 111, EN 112

EN 250
Methods of Teaching Writing: Writers' Center
1 credit hour
As required

This is the second in a series of four one-credit courses designed to prepare students to teach academic writing at the secondary or post-secondary levels and/or to work in a secondary or college writers' center. This course addresses one-on-one and small group tutorial work in a writers' center.

EN 312
Special Topics in Composition
3 credit hours
As required

These topics courses are writing workshops designed to allow students to write in a particular genre and/or for a designated audience with the support of a publishing writer and the other members of the workshop.

Prerequisites: EN 111, EN 112

EN 315
Studies in Literature
3 credit hours
As required

Topics from world literature involving various literary genres and themes. Possible semester topics include: Black Literature, Contemporary Literature, Women in Literature, and Biblical Themes in Literature. Studies for Summer 2010 semester: This course is designed to teach students the basic components of theater, and to experience various plays being performed in Pittsburgh. It will also examine the history of many of the local theaters in the city. Cross-listed with SELLIT-015

PreRequisites: EN 111 & EN 112

EN 315E
Women in Literature
3 credit hours
As required

In this course students will study works by women authors in all genres.

EN 316
Nineteenth & Twentieth Century Russian Literature: Prose
3 credit hours
As required

An introduction to Russian literature in English translation with emphasis on prose fiction. Selections include the writing of Pushkin, Lermontov, Gogol, Turgenev, Dostoyevsky, Chekhov, Gorky, Sholokov, Pasternak and Solzhenitsyn.

PreRequisites: EN 111, EN 112

EN 318
Dramatic Literature
3 credit hours
Spring (odd years)

A study of the principal types of drama consisting of plays selected from ancient to contemporary times and representing a variety of cultures, usually Greek, English, American, Irish, Russian, and Spanish. Dramatic theory and criticism will be examined and critical writing about drama will be taught.

PreRequisites: EN III, EN 112

EN 319
Modern American Drama
3 credit hours
Spring in even years

A study of selected plays of 20th century American dramatists, from the 1920's to the present. Plays studied include those of O'Neill, Williams, Albee, Miller, Wilder, Steinbeck, Odets, Sherwood, Hellman and Rice. The plays are studied as drama and as literature.

PreRequisites: EN 111, EN 112

EN 320
Modern American Novel
3 credit hours
As required

A study of major novels from the rise of realism to the present. The course focuses on the work of such established writers as Fitzgerald, Faulkner and Steinbeck, but may include some fiction by contemporary writers.

PreRequisites: EN 111, EN 112

EN 321
Shakespeare on Film
3 credit hours
As required

In development. Cross-listed with SELLIT-003

EN 322
Development of the English Novel
3 credit hours
As required

A study of the novel from its beginnings: selected writings demonstrate the development of the novel as an art form, usually including works of Fielding, Austen, Thackeray, C. Bronte, E. Bronte, Dickens, Hardy, Lawrence and Joyce.

PreRequisites: EN 111, EN 112

EN 323
Shakespeare
3 credit hours
Fall (even years)

The reading and analysis of Shakespearean drama. Plays studied usually include: A Midsummer Night's Dream, Richard II, Measure for Measure, Henry IV, Much Ado About Nothing, As You Like It, Twelfth Night, Othello, King Lear, Macbeth and The Winter's Tale.

PreRequisites: EN 111, EN 112

EN 324
Love and War in Old & Medieval English Literature
3 credit hours
As required

Literary works are selected from the genres of epic, romance, lyric and ballad. Selections may vary but usually include: Beowulf, Troilus and Cressida, Tristan and Isolde, Sir Gawain and the Green Knight, and The Canterbury Tales.

PreRequisites: EN 111, EN 112

EN 325
Renaissance English Poetry
3 credit hours
As required

A study of the non-dramatic poetry of Sidney, Spenser, Shakespeare, Marlowe, Donne, Jonson, Herbert, Marvell, Vaughan and short poems of Milton.

PreRequisites: EN 111, EN 112

EN 327
Nineteenth Century British Poetry
3 credit hours
As required

A survey of the romantic poetry of Burns, Blake, Wordsworth, Coleridge, Byron, Shelley and Keats; and of the Victorian poetry of Tennyson, Browning, Arnold, the Rossettis, Clough, Hopkins and Hardy.

PreRequisites: EN 111, EN 112

EN 328
Early Twentieth Century British Literature
3 credit hours
As required

A study of British literature written during the first half of the twentieth century. Novels and poems studied usually include the works of Conrad, Forster, Woolf, Bowen, Yeats, Eliot, Joyce, Owens and Thomas.

PreRequisites: EN111, EN112

EN 329
Introduction to Literary Theory & Criticism
3 credit hours
Fall

This course will introduce advanced students to literary theory and contemporary methods of literary criticism and research.

PreRequisites: EN 111, EN 112 and junior status

EN 331
Journalism I
3 credit hours
Fall

An introductory course in journalistic style and a variety of formats. Students learn editing, interviewing and reporting skills.

PreRequisites: EN 111, EN 112

EN 332
Journalism II
3 credit hours
Spring

An advanced study of diverse journalistic formats: feature writing, broadcast writing and specialized reporting, e.g., business, sports, government. Emphasis is placed on journalistic ethics, responsibility and the law.

Prerequisites: EN 111, EN 112, EN 331

EN 333
American English: Its History & Development
3 credit hours
Spring

A study of the linguistic evolution of the American English language from the older stages of English to current usage in the United States.

Prerequisites: EN 111, EN 112

EN 334
Writing for Advertising
3 credit hours
Spring

A course designed to sharpen the student's writing skills in the context of copy writing for advertising. It will provide extensive practice in writing copy that appeals to a variety of audiences.

Prerequisites: EN 111, EN 112

EN 335
Writing for Television & Radio
3 credit hours
Spring

A course designed to give students practice in the writing of copy for the broadcast media. Included is the writing of news and sports reports, commercials, features and documentaries, interview techniques, and mini-dramas.

Prerequisites: EN 111, EN 112

EN 336
Grants Writing
3 credit hours
As required

Students will assess how to select funding agencies, as well as how to assess what new activities to initiate to pursue funding. The student will learn how to write effective grant proposals to selected funding agencies.

Prerequisites: EN 111, EN 112

EN 337
Advanced Exposition
3 credit hours
Spring (even years)

An advanced course in essay writing with emphasis on improving writing style. Methods include an examination of professional writings, frequent written assignments, detailed criticism of student's papers and evaluation of revisions to increase writing flexibility and precision.

Prerequisites: EN 111, EN 112

EN 338
Public Relations Writing
3 credit hours
Fall

A study of writing principles and their application to communications used for public relations.

Prerequisites: EN 111, EN 112

EN 340
Methods of Teaching Literature I
1 credit hour
As required

This first in a two-part sequence of one-credit courses begins the process of preparing students to teach literature at the secondary school level. Students enrolled in these courses will simultaneously be enrolled in a 200-level literature survey; the courses will provide occasion for reflection on and work with the materials and methodologies of the teaching of literature. The sequence thus provides a foundation for theoretical and practical fluency that will be enhanced throughout the English Education curriculum, culminating in "Methods of Teaching English" and in the Student Teaching experience.

Prerequisites: EN 111 / EN111A and EN 112. Co-requisite - enrollment in 200-level literature survey course.

EN 341
Methods of Teaching Literature II
1 credit hour
Spring as required

This second in a two-part sequence of one-credit courses begins the process of preparing students to teach literature at the secondary school level. Students enrolled in these courses will simultaneously be enrolled in a 200-level literature survey; the courses will provide occasion for reflection on and work with the material and methodologies of the teaching of literature. The sequence thus provides a foundation for theoretical and practical fluency that will be enhanced throughout the English Education curriculum, culminating in "Methods of Teaching English" and in the Student Teaching experience.

Prerequisites: EN 111 / EN 11A, EN 112 and SED 110. Co-requisite: enrollment in 200-level literature survey course.

EN 350
Methods of Teaching Writing: Genres
1 credit hour
Spring as required

This is the third in a series of four one-credit courses designed to prepare students to teach academic writing at the secondary or post-secondary levels and/or to work in a secondary or college writers' center.

Prerequisites: SED 100 and SED 200

EN 3XX
Literature Elective
3 credit hours
Fall/ Spring/Summer

Any 3-credit Upper Division (300-level) Literature course fulfills the Liberal Arts Component Literature requirement for students in the RN-BSN Degree Completion Program.

EN 450
Methods of Teaching Writing: Sequencing and Assessment
1 credit hour
Fall as required

This is the fourth in a series of four one-credit courses designed to prepare students to teach academic writing at the secondary or post-secondary levels and/or to work in a secondary or college writers' center.

EN 451
English Writing Internship
3-6 credit hours
Fall/Spring/Summer

A field experience in selected professional environments. The student is given the opportunity to integrate theoretical knowledge with practical application under the guidance of professionals at the particular institution to which the student is assigned.

Prerequisites: junior or senior status

EN 455
Senior Seminar
3 credit hours
Fall

A review of methods of research, documentation and critical practice employed in literary scholarship, appropriate selected readings, oral and written presentation of a seminar paper and class evaluation of each paper presented.

Prerequisites: 18 credits in English beyond EN 111 and EN 112

EN XXX
Literature Elective
3 credits
Fall/Spring/Summer

Literature Elective

ESL 086
Low Beginning Reading
4 credit hours
Fall

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Novice-High" level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

ESL 087
Low Beginning Writing
4 credit hours
Fall

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire writing skills in English as a Second Language at the "Novice-High" level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

ESL 088
Low Beginning Speaking
4 credit hours
Fall

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire speaking skills in English as a Second Language at the "Novice-High" level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

ESL 089
Low Beginning Grammar
4 credit hours
Fall

This course is a part of a proficiency-based language program designed to provide maximum opportunities for students to acquire the grammar skills necessary to read, write, and speak and understand English as a Second Language at the "Novice-High" level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

ESL 090
High Beginner Reading
4 credit hours
Fall

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Low" to "Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

Prerequisites: "Novice-High" level of reading proficiency

ESL 091
High Beginner Writing
4 credit hours
Fall

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire writing skills in English as a Second Language at the "Intermediate-Low" to "Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

Prerequisites: "Novice-High" level of writing proficiency

ESL 092
High Beginner Speaking
4 credit hours
Fall/Spring

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire speaking skills in English as a Second Language at the "Intermediate-Low" to Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

PreRequisites: "Novice-High" level speaking proficiency

ESL 093
High Beginner Grammar
4 credit hours
Fall/Spring

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire the grammar skills necessary to read, write, and speak and understand English as a Second Language at the "Intermediate-Low" to "Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

PreRequisites: TOEFL Score of 400-425

ESL 094
High Beginner Listening
4 credit hours
As required

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop listening skills in English as a Second Language at the "Intermediate-Low" to "Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). Students will increase their listening skills through practice with prepared listening texts, discussions on related topics, activities, experiences with native English speaking guest speakers and internet and multimedia resources.

PreRequisites: Novice high level as determined by placement test.

ESL 100
Low Intermediate Reading
4 credit hours
As required

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of reading skills.

PreRequisites: ESL 090 High Beginner Reading or equivalent

ESL 101
Low Intermediate Writing
4 credit hours
As required

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire writing skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). This goal will be realized through the writing and revising of compositions; writing exercises to practice correct sentence and paragraph structure; a writing journal; working in pairs and small groups; peer review; and review of grammar points.

PreRequisites: ESL 091 High Beginner Writing or equivalent.

ESL 102
Low Intermediate Speaking
4 credit hours
As required

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire speaking skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). The goal will be realized by the following means: (1) in-class pronunciation practice; (2) discussions on topics assigned by the instructor; (3) impromptu and prepared speeches; (4) videos, audio-taping and native speaker visitors; and (5) additional pronunciation of vocabulary items studied in reading class.

PreRequisites: ESL 092 High Beginner Speaking or equivalent

ESL 103
Low Intermediate Grammar
4 credit hours
As required

This course is a proficiency-based language program designed to provide maximum opportunities for students to acquire writing skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through the following means: (1) instructor explanations of each new point of grammar both form and meaning; (2) practice of points of grammar in class and as homework; (3) practice of grammar points including speaking, listening, reading and writing; (4) written, oral and listening comprehension practice; and (5) teting of practices grammar points in the four skills areas.

PreRequisites: ESL 093 High Beginner Grammar or equivalent

ESL 104
Low Intermediate Listening
4 credit hours
As required

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop listening skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). Students will increase their listening skills through practice with prepared listening texts, dialogs, discussions on related topics, experiences with native English speaking guest speakers and internet and multimedia resources.

PreRequisites: ESL 094 High Beginner Listening or equivalent.

ESL 105
High Intermediate Reading
4 credit hours
As required

This course is a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-High" to "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of the following reading skills: (1) using context clues to guess word meanings; (2) understanding the main ideas of paragraphs and essays with some structural complexity; (3) skimming for main ideas; (4) scanning for specific information; (5) understanding inference and restatement; (6) reading paragraphs and essays for detailed understanding.

PreRequisites: ESL 100 Low Intermediate Reading or equivalent

ESL 106
High Intermediate Writing
4 credit hours
As required

This course is a proficiency-based language program designed to provide maximum opportunities for students to acquire writing skills in English as a Second Language at the "Intermediate-High" to "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized by the following means: (1) writing and revising of compositions following the steps in the writing process listed below in course objective 2; (2) writing additional exercises as needed to practice correct sentence and paragraph structure; (3) keeping a writing journal on a weekly basis. Topics of journal entries may be chosen by either student or teacher; (4) writing compositions both in class and as homework; (5) working in pairs and small groups on a variety of activities including peer review; (6) touring the library; and (7) reviewing grammar points.

PreRequisites: ESL 101 or Equivalent

ESL 107
High Intermediate Speaking
4 credit hours
As required

This course is a proficiency-based language program designed to provide maximum opportunities for students to acquire writing skills in English as a Second Language at the "Intermediate-High" to "advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized by the following means: (1) in-class pronunciation practice; (2) discussions on topics assigned by the instructor; (3) impromptu and prepared speeches; (4) video- and audio-taping of speeches; and (5) independent speaking tasks outside class.

PreRequisites: ESL 102 Low Intermediate Speaking or equivalent

ESL 108
High Intermediate Grammar
4 credit hours
As required

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire grammar skills necessary to read, write, speak, and understand in English as a Second Language at the "Intermediate-High" to "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). This goal will be realized through the following means: (1) instructor explanations of each new point of grammar both form and meaning; (2) practice of points of grammar in class and as homework; (3) practice of grammar points including speaking, listening, reading and writing; (4) written, oral and listening comprehension practice; and (5) testing of practiced grammar points in the four skills areas.

Prerequisites: ESL 103 Low Intermediate Grammar or equivalent.

ESL 109
Advanced Reading
4 credit hours
Fall/Spring

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Advanced" to "Advanced-Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

Prerequisites: ESL 105 or "Intermediate-High" level of reading proficiency

ESL 110
Advanced Writing
4 credit hours
Fall/Spring

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire writing skills in English as a Second Language at the "Advanced" to "Advanced-Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

Prerequisites: ESL 106 or "Intermediate-High" level of writing proficiency

ESL 111
Advanced Speaking
4 credit hours
Fall/Spring

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire speaking and listening comprehension skills in English as a Second Language at the "Advanced" to "Advanced-Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized by the following means: (1) in-class pronunciation practice; (2) discussions on topics assigned by the instructor; (3) video- and audio-taping of impromptu and prepared speeches; (5) independent speaking tasks outside class.

Prerequisites: ESL 107 High Intermediate Speaking or equivalent

ESL 112
Advanced Structures of Academic English
4 credit hours
Fall/Spring

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire the grammar skills necessary to read, write, speak, and listen in English as a Second Language at the "Advanced" to "Advanced-Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

Prerequisites: TOEFL Score of 500+

ESL 113
Intensive Reading
4 credit hours
Fall/Spring

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Advanced-Plus" to "Superior" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

Prerequisites: ESL 109 or "Advanced" level of reading proficiency

ESL 114
Intensive Writing
4 credit hours
Fall/Spring

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire writing skills in English as a Second Language at the "Advanced-Plus" to "Superior" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

Prerequisites: ESL 110 or "Advanced" level of writing proficiency

ESL 115
Intensive Speaking
4 credit hours
Fall/Spring

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire the speaking skills in English as a Second Language at the "Advanced-Plus" to "Superior" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

Prerequisites: ESL 111 or "Advanced" level of speaking proficiency

ESL 120
High Intermediate Listening
4 credit hours
As required

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop listening skills in English as a Second Language at the "Intermediate-High" to "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). Students will increase their listening skills through practice with prepared and authentic listening texts, dialogs, discussions on related topics, listening and note taking activities, experiences with native English speaking guest speakers and internet and multimedia resources.

Prerequisites: ESL 104 Low Intermediate Listening or equivalent.

ESL 130
Advanced Listening
4 credit hours
As required

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop listening skills in English as a Second Language at the "Advanced" to "Advanced Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). Students will increase their listening skills through practice with prepared and authentic listening texts, discussions on related topics, academic listening and note taking activities, experiences with native English speaking guest speakers and internet and multimedia resources.

Prerequisites: ESL 120 High Intermediate Listening or equivalent

ESL 457
Independent Study in English as a Second Language
3 credit hours
Fall/Spring

Independent study for non-native speakers of English who have demonstrated a commitment to further study of English writing skills and techniques and/or English reading skills and vocabulary. The student will complete independent study in conjunction with the appropriate ESL faculty.

FA 203
Introduction to Art
3 credit hours
As required

This course consists of a series of directed studio art experiences in basic drawing and painting techniques, specifically designed for the non-art/design major. This studio-based course meets for 5 contact hours per week. Core Course. Cross-listed with SELAES-002

FA/AH 205
Digital Fine Arts
3 credit hours
As required

This course is intended to provide an opportunity to explore Mac computer art. The students will experience the computer studio process of creating art in relevant software, using a digital camera to manipulate images and final image animation. The effect of styles, techniques and art movements on computer images will be explored. Attention will be given to archival inks and paper. Lecture and video will provide an introduction to the new and brief history of electronic images.

Prerequisites: Basic computer literacy or permission of the instructor

FA/AH 320
History of Contemporary Art
3 credit hours
Spring

A survey of modern art from the 19th century to the present day. This course explores the revolutionary forms, methods and media invented by contemporary artists to continually defy our expectations of what art should be!

FIN 331
Investments
3 credit hours
Fall

An analysis of securities and a study of principles of governing the management of investment assets in light of relevant economic factors.

PreRequisites: AC 204

FIN 332
Financial Management
3 credit hours
Fall /Spring

An analytical study of external sources and processes of financing. Financial analysis tools, short-and long-term financing, dividend policy and capital budgeting are examined.

PreRequisites: AC 204

FIN 334
Commercial Bank Management
3 credit hours
Fall

This course incorporates a financial framework for students to view banking as a participant in the evolving financial services industry.

PreRequisites: FIN 332, junior status.

FIN 336
Financial Institutions
3 credit hours
Fall

This course will provide for an understanding of the various types of financial institutions that exist and operate in the American economy. Their relationship and activities in the international environment will also be addressed.

PreRequisites: JR or SR status

FIN 340
Risk Management & Insurance
3 credit hours
As required

Identifying and analyzing risk and managing it through insurance and alternative tools are integral to the overall risk management plans of individuals and firms.

PreRequisites: FIN 332

FIN 433
Managerial Finance
3 credit hours
Fall

An advanced course in corporate finance. Case studies utilized to describe a series of decisions facing the corporate managers of domestic and multinational firms as they assess the value of various investment and financial strategies. Practical and conceptual issues facing managers in large and small firms are addressed.

PreRequisites: FIN 332 & senior status

FIN 439
Real Estate Investment
3 credit hours
As required

This course provides the basics of real estate financial analysis including legal instruments, financing residential properties, income-producing properties, real estate development, institutional sources of funds and the secondary mortgage market.

PreRequisites: FIN 332.

FM 100
Introduction to Facilities Management
3 credit hours
Spring

This course offers an overview of the facilities management field including the history and current state of the profession, basic principles and strategies used in managing a business's real estate and workspace assets, typical areas of responsibility, professional ethics and career opportunities.

FR 101
Elementary French I
3 credit hours
Fall

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in beginning French.

The goal of the course is the acquisitions of a useful, communicative command of the language at the "Novice-Mid" to "Novice-High" level on the national scale, as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target language input (oral and visual), active oral and written practice of real-life language tasks or "functions" (conversing with an exchange student, completing forms, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: One semester of college language or equivalent.

FR 201
Intermediate French I
3 credit hours
Fall

These courses are designed to build on the student's previous skills, thereby improving oral proficiency. Vocabulary acquisition and the reading of authentic aural and written materials broaden the student's knowledge and linguistic abilities. Classroom activities focus on development of skill in self-expression. The student has many opportunities to expand cultural knowledge through films, videotapes, and informal "rendezvous." Course is not open to students with an advanced or superior oral proficiency level in French.

PreRequisites: FR 102 or equivalent

FR 202
Intermediate French II
3 credits hours
As required

This course is designed to teach the beginning French student the four basic skills of listening, speaking, reading, and writing. The focus of this course is the development of aural/oral proficiency by means of vocabulary development, listening and speaking practice, and guided conversation. Class work emphasizes the acquisition of strategies for understanding, authentic listening and reading materials. Through such activities as classroom discussions, videotapes, and films, the student becomes acquainted with various facets of francophone culture. Course is not open to students with an advanced or superior oral proficiency level in French.

PreRequisites: FR 201 or equivalent

FR 301
Advanced French Language & Culture I
3 credit hours
Fall

This course is designed to advance the student's language proficiency through the development of communicative strategies such as: how to express one's feelings; how to get and give advice; how to make plans; how to react to an opinion and how to maintain discussions. The student gains experience in using socially acceptable formats for writing both personal and business correspondence. Through carefully chosen authentic texts, cross-cultural phenomena such as contemporary social issues and business practices are explored.

PreRequisites: (for FR 301)-Intermediate II or equivalent

FR 302
Advanced French Language & Culture II
3 credit hours
Fall

This course is designed to advance the student's language proficiency through the development of communicative strategies such as: how to express one's feelings; how to get and give advice; how to make plans; how to react to an opinion and how to maintain discussions. The student gains experience in using socially acceptable formats for writing both personal and business correspondence. Through carefully chosen authentic texts, cross-cultural phenomena such as contemporary social issues and business practices are explored.

PreRequisites: FR 301 or equivalent

FR 305
French Civilization and Culture I
3 credit hours
Fall

A study of the French and Francophone culture, civilization, literary genres, and authors from the 16th-21st century.

PreRequisites: FR 302 or equivalent.

FR 457
Research in French Studies
1-6 credit hours
Fall

Independent study course for students who have demonstrated an intense commitment to investigate a particular area of French studies. The student will design an independent study in conjunction with the appropriate language faculty member.

PreRequisites: Permission of the Department Chair

GCD 123
Drawing I
3 credit hours
Fall/Spring

A study-workshop in the "language of drawing," including practice in expression and communication in various media utilizing principles of line, tone, gesture, exaggeration and lighting. Cross-listed with ID 123

GCD 125
Fundamentals of Electronic Publishing
3 credit hours
Fall/Spring

This course will prepare students not majoring in graphic design to work in a creative team environment toward the production of digital communication materials and graphics, and will introduce students to the web as a design vehicle for publishing and advertising.

GCD 160
Foundation Design I
3 credit hours
Fall

A process-oriented study of visual organization and expression primarily in relation to two-dimensional surfaces. Includes study of positive-negative space, color value, line and texture as well as inquiry into origins and theories of design relative to its practice on a functional level. Cross-listed with ID 160

GCD 162
Foundation Design II
3 credit hours
Spring

An extension of the study of issues initiated in GD 160 Foundation Design I, with the addition of new areas of inquiry. Student skills will be expanded and refined in such formal visual concerns as color systems, historical style conventions, special systems, optical illusions, and manipulation of form. Cross-listed with ID 161

PreRequisites: GCD 160

GCD 170
Computer Graphics I
3 credit hours
As required

This course will explore the theories and techniques presented in GCD 160. Foundation Design I, enabling students to render and print original imagery using the primary tool of graphic design, the computer. The course will be an introduction to raster image creation, manipulation and production using professional industry standard software.

GCD 171
Computer Graphics II
3 credit hours
As required

This course will explore the theories and techniques presented in GCD 162, Foundation Design II, enabling students to render and print imagery using the tool of design, the computer. The course will be an introduction to vector image creation, manipulation and production, using professional industry standard software.

GCD 212
Typography I
3 credit hours
Fall

This course introduces the alphabet as a design element as well as a means of communicating. Studies include the development and modern application of type and letterform. Projects involve the aesthetic aspects of letterforms while emphasizing the practical aspects of setting type, such as type specification, copyfitting and readability.

Prerequisites: GCD 160, GCD 162, GCD170 & GCD 171

GCD 221
Graphic Design I
3 credit hours
Fall/Spring

This course investigates design principles and concepts, incorporating them into the foundations of graphic design. The student is introduced to the language and processes used to achieve effective graphic design.

Prerequisites: GCD 160, GCD 162, GCD 170 & GCD 171

GCD 229
Multimedia I(formerly Multimedia for the Web)
3 credit hours
As required

Appropriate software will be used to create interactive multimedia presentations, explore digital images, create special effects and facilitate interface with web design.

GCD 233
Drawing II
3 credit hours
Spring (even years)

The principal concern of this course is the investigation of all aspects of drawing: as documentation, as structural form, as an analytical mode and as image. Regular critiques, discussions and individualized instruction are the methods of presentation.

Prerequisites: GCD 123

GCD 238
Ad Illustration I
3 credit hours
Fall

The study of contemporary techniques and methods for illustrations.

Prerequisites: GCD 123, GCD 170 & GCD 171

GCD 247
Photographic Lighting Techniques
3 credit hours
Fall/Spring

This course will explore various aspects of portrait and product photography, making extensive use of lighting technique and equipment in an examination of both natural and artificial lighting environments. The course is intended to provide additional tools, techniques and insights into image production and development for the Graphic Design and Communication Design major.

Prerequisites: GCD 216

GCD 316
History of Film
3 credit hours
Fall (odd years)

*The course attempts to make the student more aware of the medium as well as its place in the development of our culture. While the approach is historical, emphasis is placed upon development of the student's visual literacy. Additionally, important topics such as censorship and film propaganda are discussed*Cross-listed with AH 316

GCD 322
Typography II
3 credit hours
As required

Further development of the ideas, techniques and principles studied in GCD 212. Emphasis is placed on polishing and advancing basic typography skills through the study of typography in publication design, i.e., multiple page design as it relates to layouts for books, booklets, brochures and magazines. Format and design for continuity is stressed.

PreRequisites: GCD 212

GCD 331
Graphic Design II
3 credit hours
Fall

A study of the organization and design of verbal information in relation to other graphic elements.

PreRequisites: GCD 221 & passed mid-collegiate review

GCD 341
Graphic Design III
3 credit hours
Spring

A study of design with emphasis on communication and advanced design problems.

PreRequisites: GCD 331

GCD 343
Design for Packaging
3 credit hours
Fall/Spring

A course covering fundamental methods and techniques for design having maximum consumer appeal. Emphasis is placed on 3-D design and point-of-purchase display design as a functional form of communication.

PreRequisites: SR status or permission of department chair

GCD 345
Multimedia II(formerly Multimedia for the Web)
3 credit hours
Fall

An in-depth study of multimedia design, theory and application for upper level Graphic Design students. Taught primarily on a MAC platform, this course utilizes software for web design, animation, and interactive CD production. Class assignments will be closely related to GCD 331: Graphic Design I, which will be taken concurrently during the second semester of the Junior year. The courses will be interrelated in terms of theory as well as outcome assessment.

PreRequisites: GCD 221 & passed Mid-Collegiate review

GCD 346
Multimedia III(formerly Multimedia for the Web)
3 credit hours
Spring

This course is an advanced study of multimedia and video design, theory and application for upper level Design students. Taught primarily on a MAC platform, this course utilizes software for digital video production. Class assignments will be closely related to GCD 341: Graphic Design II, which will be taken concurrently during the second semester of the Junior year. The courses will be interrelated in terms of theory as well as outcome assessment.

PreRequisites: GCD 345, GCD 331

GCD 450
Computer Graphics:Special Topics
3 credit hours
As required

A hands-on, computer-based course that explores the creation of advanced visual imagery and design with emphasis on the Adobe Photoshop CS3 application. Provides an in-depth study of the functionality of the application, and the creative possibilities that knowledge and proficiency of the application can inspire.

As Adobe Photoshop is THE PREMIER image creation/photo manipulation software in the world, the advanced computer graphics course will help ensure that with the successful completion of the course, the student is more marketable in today's highly competitive marketplace.

PreRequisites: GCD 170 & GCD 171

GCD 451
Graphic Design Internship I
3-6 credit hours
Fall/Spring/Summer

A practical work experience in a field setting. The student receives credits for work performed.

PreRequisites: Junior status in GCD

GCD 455
Graphic Design IV: Senior Design Seminar
3 credit hours
As required

An open-ended senior seminar dealing with various aesthetic questions and team efforts in which students act as art director, designer, illustrator, writer, or photographer. Emphasis is placed on educational experiences that enable the student to move from hypothetical design problems to the challenge of working with clients on real jobs. Communication Design majors play a significant role on creative teams.

PreRequisites: GCD 331, GCD 341, GCD 345 & GCD 346

GCD 458
Portfolio Preparation
3 credit hours
Spring

This course consists of instruction and guidance in the preparation of a professional portfolio, including resume preparation and staged interviews.

PreRequisites: senior status in GCD

GCD/COM/PFM
Pittsburgh Filmmakers Elective Courses
3 credit hours
Fall/Spring/Summer

Pittsburgh Filmmakers' courses such as Filmmaking, Video Production II, Digital Non-Linear Editing, Web Page Design, Screenwriting, etc., are available to La Roche College students in Fall, Spring and Summer semesters. Courses are listed in the Pittsburgh Filmmakers Catalog that is available through academic advisors.

GE XXX
General Elective
1-4 credit hours
Fall/Spring/Summer

Any course outside of those required as part of the Core Curriculum or a student's major course of study, may serve as a General Elective. General Electives may be taken to fulfill the minimum credit requirement in addition to the core requirements (including the English and mathematics courses) and major requirements. Students select general electives on the advice of the academic advisor.

GEO 212
European Geography
3 credit hours
Fall

A study of the continent of Europe as a whole with an emphasis on its diversity of peoples, its resources, its advanced culture and its relatedness to the rest of the world.

GEO 313
Geography and World Affairs
3 credit hours
Fall

An overview of various regions of the world and the environmental conditions to which people adapt. Racial, linguistic, religious and economic groupings of people will be stressed. Current world events are examined to develop knowledge about historical, geographic, climatic, political and religious environments which people inhabit. Cross-listed with IS 313

GEO XXX
Geography Elective
3 credit hours
As required

Any geography class taken as part of the Major Elective component of a major.

GEO/IS 211
World Geography
3 credit hours
Fall

A study of the interactions between human beings and the land, and the influence of geography in shaping work and culture throughout the world.

GEO/IS 310
Cultural Geography and the Human Mosaic
3 credit hours
Fall

The many ways in which humans have changed the face of the earth in response to culture is known as the human mosaic. The course applies the major themes of cultural geography to population, language, religion, agriculture and urbanism. A basic knowledge of world geography is assumed. Core Course.

GEO/IS 313
Geography & World Affairs
3 Credit hours
As required

An overview of various regions of the world and the environmental conditions to which people adapt. Racial, linguistic, religious and economic groupings of people will be stressed. Current world events are examined to develop knowledge about historical, geographic, climatic, political and religious environments which people inhabit.

GN 502
Nursing Theory & Research
4 credit hours
Fall

This course is designed to provide the student with knowledge about the interaction of theory and research for the acquisition of knowledge and for advanced nursing practice. It focuses on the value of scientific evidence and nursing as a discipline as the basis for providing quality care and improving nursing practice. The student will develop an understanding of the research process, acquire the knowledge and skills needed to critically evaluate nursing research and evidence-based practice. The interrelationship of theory and research will be explored, and extant theories that guide nursing practice will be examined.

GN 513
Role Development of the Nurse Administrator & Nurse Educator
2 credit hours
As required

This course is designed to assist the student in defining and developing the advanced practice role of nurse educator or nurse administrator. The student will explore the core competencies of the roles of nurse educator or nurse administrator as these are enacted within the context of traditional and nontraditional health care and educational systems. From a theoretical perspective or role development, the student will begin to synthesize a personal framework for practice within the selected role.

GN 520
Health Policy
3 credit hours
Fall

This course is designed to assist the student in understanding health care policy in the United States. This course critically examines the national health care agenda and nursing's role in relation to the health of the nation, global health, and global health policy. Federal, state, and local political structure and function are examined along with the hierarchy of political involvement, interest groups and lobbyists, advocacy strategies and ethical issues and the public policy change process. An overview of health care finance as it relates to health care systems/services is presented and strategies for influencing the regulatory process will be explored.

GN 533
Nursing Informatics for Nurse Administrators & Nurse Educators
3 credit hours
Fall

This course is designed to provide the student with concepts of healthcare and nursing informatics for the nurse administrator and nurse educator integrating nursing science with computer technology and information science to identify, gather, process, and manage information. Current technology based health applications which support clinical, administrative, research, and educational processes and decision making will be emphasized. Trends and issues in using, designing, and managing health care information systems will be included as well as ethical and legal principles as they apply to health care information systems. Identifying and using appropriate technology for the task or project will also be discussed.

GN 535
Human Diversity & Social Issues in Nursing Administration & Nursing Education
3 credit hours
Spring

This course is designed to provide the student with an overview of human diversity and societal issues impacting nursing administration and nursing education. Strategies for incorporating diversity within the educational and work environment will be explored.

GN 600
Capstone Research Experience
3 credit hours
Spring

This second research course is designed to provide the student with the opportunity to apply theoretical concepts and skills from the research methodology course and graduate nursing courses to the development of a capstone research experience. The student is guided in the preparation of a project specific to a phenomena related to nursing practice in the area of graduate study. Emphasis is placed on responsible participation in scientific inquiry and on adherence to principles of ethical research.

PreRequisites: GN 500, GN 510, minimum of 1 course in specialization and permission of instructor

HRM 511
Financial Analysis and Budgeting
3 credit hours
Fall/Summer

This course will survey the basic principles, terminology and uses of budgeting and accounting techniques as they relate to the Human Resource function. The course will explore frameworks for understanding the interdependence between the Human Resource and Finance functions including assessing the general costs of HR and such specifics as turnover, absenteeism, EAP, technology, compensation and benefits planning, and HR budgeting.

HRM 512
Legal Aspects of Human Resources Management
3 credit hours
Fall/Summer

This course provides an introduction to the laws, regulations and court decisions covering the HRM function and the employment relationship, including labor-management, OSHA, FMLA, EEOC, ERISA, ADA, employment-at-will and other HRM-related laws. Compliance programs will also be reviewed.

HRM 513
Quantitative Research Methods in Human Resources Management
3 credit hours
Fall/Spring

This course is designed to provide the student with an overview of the principles of quantitative and qualitative research as it relates to the HR discipline. Various research methods and techniques are explored with the purpose of developing the student's ability to critically evaluate HR research studies and enable effective conduct of their own HR research. Specific examples include survey design, attitude research, communication, assessment and program evaluation.

PreRequisites: MT 140

HRM 520
Organizational Behavior
3 credit hours
Spring/Summer

This course is designed to provide the student with the background and skills to augment the student's managerial effectiveness. The course emphasizes theories of micro- meso- and macro-organizational behavior as they relate to the workplace. Human Resource topics include motivation and individual behavior, interpersonal and group behavior, job satisfaction, work stress, leadership, organizational structures and culture.

HRM 523
Organizational Theory
3 credit hours
Fall/Spring

This course provides the student with a forum to explore different theoretical ways of thinking about organizations. Students will be introduced to traditional, modern, and post-modern organizational theories from different disciplines. Students will also come to understand how these theories impact the way in which we view, comprehend and act in organizations.

HRM 525A
Integrative Seminar in HRM
3 credit hours
Fall

This 2-term seminar provides the student with a capstone experience, designed to integrate the disciplinary knowledge gained in the program and prepare the student for effective HR practice. Students will learn how to develop and use HR strategy, how to initiate and manage HR consulting relationships, and how to use HR assessment and evaluation tools. As part of the seminar, students will design, implement and evaluate an HR consulting project in their area of concentration.

PreRequisites: HRM513 and 18 earned credits minimum

HRM 525B
Integrative Seminar in HRM
3 credit hours
Spring

This 2-term seminar provides the student with a capstone experience, designed to integrate the disciplinary knowledge gained in the program and prepare the student for effective HR practice. Students will learn how to develop and use HR strategy, how to initiate and manage HR consulting relationships, and how to use HR assessment and evaluation tools. As part of the seminar, students will design, implement and evaluate an HR consulting project in their area of concentration.

PreRequisites: HRM513 and 18 earned credits minimum.

HRM 600
Human Resources Information Systems
3 credit hours
Summer

Through this course, you will learn to recognize and appreciate the management of information systems as an integral part of the HR function. The course will present major technological advancements and a review of available software, which supports HR. Emphasis is on the accessibility and availability of information. Familiarity with spreadsheets and relational database management is helpful, but not required.

HRM 601
Computer and Web-based Training
3 credit hours
Spring

Computer and Web-based Training is an introductory course designed to provide students with a practical approach to the theory, principles, and application skills relevant to the design of computer and web-based training courseware. This course additionally focuses on the advantages and disadvantages of electronic educational communications and the variances in the audience characteristics that warrant its success. Students will be given preliminary resources and strategies that will help in the development of instructional plans and future professional courseware design.

HRM 602
Workplace Diversity
3 credit hours
Spring (odd years)

This course presents a study of the historical and contemporary aspects of the employment relationships of minority groups in the US with emphasis on racial and ethnic minorities as well as gender relations. The course also provides an analysis of prejudice and discrimination, as they exist in contemporary organizations.

HRM 606
Topics in HRM
3 credit hours
Summer

This course provides students with the opportunity to explore a current topic in the human resources management field related to the enhancement of organizational effectiveness. Possible topics include: self-managed groups and organizations; international HRM; re-engineering the organization; conflict management; and technological issues and advancements in HRM.

International HRM:

This course offers students a comprehensive foundation in International Human Resource Management (IHRM). The course reviews the contextual and strategic elements of IHRM, including the internationalization of business and HRM, aligning corporate strategy and structure at the global level, the international legal context, and international culture. Students will also learn about specific HRM applications in the international context, such as global talent management and staffing, international training and development, global compensation management, and international performance management.

HRM 611
Advanced Legal Aspects
3 credit hours
Spring

A study of the practical application of legal theory (excluding traditional labor law) to human resources management, from the development of job descriptions for use in recruiting through post-termination proceedings. Special emphasis is placed on equal employment and wage hour matters and other selected topics.

PreRequisites: HRM 512

HRM 612
Training and Development
3 credit hours
Fall

This course deals with the overall training and development process, including the design of training programs, identification of training needs, selection of training techniques, development of presentation skills and evaluation of program effectiveness. Techniques and theories of training and development of people in organizational settings are also explored.

HRM 613
Compensation Management
3 credit hours
Fall/Spring

This course examines the various direct financial, indirect financial and non-financial reward systems that are used to achieve the organizational goals of attracting, retaining, and motivating the employee. Both the employer and the employee perspectives are reviewed. Also covered are the various performance appraisal systems and their relationship to organizational reward systems.

HRM 615
Employee Benefits Management
3 credit hours
Spring

This course presents an overview of employee benefits, planning total benefits programs, issues in the design and selection of benefits programs, costing employee benefits, different type of benefits flexible programs communicating benefits programs and selecting and using benefits consultants.

HRM 616
Employee Health & Safety
3 credit hours
Fall

This course provides an overview of relevant and current information regarding employee health/safety and workers compensation.

HRM 617
Recruitment and Placement
3 credit hours
Fall

A survey of the basic techniques for the recruitment, selection and placement of people. Topics include the preparation of job specification, the development of a recruiting strategy, methods and procedures of recruiting and selecting candidates, and the need for proper new employee orientation.

HRM 618
Leadership
3 credit hours
Summer

This course will provide the student with the opportunity to engage in contemporary discussions of leadership, theory and personal leadership effectiveness. Course topics include what leaders do, how leaders think, and how leadership is developed and learned.

HRM 620
Planning and Implementing Change
3 credit hours
Summer

This course explores methods of organizational diagnosis, planned change and intervention, and various concepts and methods of planned organizational change. These concepts and methods will be applied to an organizational setting selected by the student.

HRM 621
Labor Relations and Collective Bargaining
3 credit hours
Summer

A survey of the organizational and economic aspects of management/employee relationships. The main topics include a historical review of the American labor movement, an overview of the social, instructional and organizational frameworks within which the collective bargaining process occurs, and techniques of labor/management dispute management. Theories and principles of collective bargaining will be covered, and a mock bargaining session will be held to provide a "hands on" approach to bargaining.

PreRequisites: HRM 512

HRM 628
Internet and Technical Recruiting
3 credit hours
Summer

This course introduces the student to the field of recruiting technical employees. Course materials are specifically designed to provide the student with an understanding of how to use online recruiting techniques to find technical employees. Topics include: the strategic role of HR, writing ads and advertising for jobs, selecting an online service, the future of recruiting, ethical issues in online recruiting, and technical recruiting. This is an online class.

HRM 634
Managing Information Technology & Change Processes
3 credit hours
Fall

This course will cover various types of information technology, the elements of project management, implementing and evaluating the technology, managing knowledge workers and managing the change process. Students will learn that managing information technology includes more than managing a "computer." As a result, classroom discussion and student learning will include processes and procedures necessary to improve productivity and efficiency within the organization.

HRM 635
SHRM Learning System
3 credit hours
Fall/Spring

This course provides an overview of key areas in human resource management corresponding to the six functional areas as defined by the Human Resource Certification Institute (HRCI) and covered in the PHR and SPHR exams. These six modules are Strategic Management, Workforce Planning and Employment, Human Resource Development, Compensation and Benefits, Employee and Labor Relations, and Safety and Environment. The course is offered in cooperation with the Society for Human Resource Management (SHRM) and uses SHRM student learning materials which prepare students to take the Professional in Human Resources (PHR) and Senior Professional in Human Resources (SPHR) certification examinations administered by HRCI. Students are required to use the most current version of the SHRM Learning System Materials.

HRM 636
Performance Management Systems
3 credit hours
Spring

Performance Management is the process through which managers ensure that employee's activities and outputs contribute to the organization's goals. The student will learn how to design and use performance management systems to help the organization meet business objectives, link employee behaviors to organizational goals, and create administrative systems that provide information for day-to-day decisions such as salary and benefits administration, the development of training programs, and decisions regarding retention and termination.

HS 110
U.S. History: The Foundation of a Republic (1600-1865)
3 credit hours
Fall

A study of the history of the United States from 1607 to 1865. This course traces the development of the United States from the earliest European settlers to the formation of a republic, noting the events, people and ideas involved in the struggle to achieve that end. Particular emphasis is given to colonial America, the American Revolution, the constitutional process of 1789, and the slavery question. Core Course.

HS 111
U.S. History: The Emergence of a Mass Democracy (1865-1945)
3 credit hours
Spring

A study of the history of the United States from 1865 to 1945. This course traces the development of the United States from the aftermath of the Civil War to its emergence as a world superpower, noting the events, people and ideas involved in that development. Particular emphasis is given to Reconstruction, industrial development and World War II. Core Course.

HS 112
U.S. History: Contemporary Times (1945-present)
3 credit hours
Fall (even years)

A study of the United States since World War II as it struggles with its role in being a superpower in the world and its role in fulfilling the American dream at home. Special emphasis is placed on the Cold War, the Great Society and Vietnam, the Civil Rights Movement, and the Reagan Revolution. Core Course.

HS 113
Western Civilization I
3 credit hours
Fall

This course focuses on Western civilization from its origin in the Near East up through the Protestant Reformation. Special emphasis is given to the social, economic, religious, and political institutions that shaped the roots of Western Civilization. Attention is also concentrated on the place of the individual within this society. Core Course.

HS 114
Western Civilization II
3 credit hours
Spring

This course focuses on Western civilization from the Reformation to contemporary times. Special emphasis is given to the characteristics which define Western civilization as it emerged from the Middle Ages into modern times including science, faith, reason, capitalism, communism, the growth of institutions and the arts. Core Course.

HS 200
Britain and Its Empire
3 credit hours
As required

This course covers the early history of Britain from pre-Roman times up through and beyond the Middle Ages and explores the political, social and economic origins of the British Empire. The empire is then examined in depth at its zenith in the 19th century as it became entrenched in different world areas; we explore the impact on local peoples and nations. The course concludes with attention to the decline of the British Empire.

HS 235
History of Latin American
3 credit hours
Fall (odd years)

A study of the growth and development of Hispano- and Luso-America from the European Conquest to the present. Emphasis is given to the interrelationships between the Church, the Military and the State, and the effects of this relationship on the development of society. Core Course.

HS 300
History & Culture of the American Indian
3 credit hours
Fall (even years)

A study of the American Indian from prehistoric time to the present with emphasis on affects of Euro-American contact on native American culture.

HS 305
Contemporary Central America
3 credit hours
Spring

Through class lectures, discussions, essay tests, a term paper, assigned readings, and slide and video presentations, this class shall review the history of the five Central American nations and their relationships, political, economic, and social, with the United States. Such concepts as economic dependency, neocolonialism, developmentalism, free market economic theory, grassroots democracy, militarism, liberation theology, and socialism will be discussed in depth, along with the general history of the five countries. The problems of indigenous peoples, human rights abuses, class stratification, and recent changes in religion, including phenomenal growth of Pentecostalism, shall be emphasized. By so doing, it is hoped that the student will come to a sophisticated understanding of the contemporary crises in Central America.

HS 312
History of Spain
3 credit hours
As required

HS 315
History of Political Thought
3 credit hours
As required

In this course we inquire into the origins, evolution and development of political philosophies, focusing on the theories that have shaped Western political thought from ancient times to the present day. We read extensive excerpts from classic texts and analyze them in class, discussing key concepts in Western political thought such as liberty, justice, morality, political rights, and humanism. Students will also be asked to create their own political theories. Students will learn the genesis of political thought over the past 2,000 years, how to critically assess these theories, and how to create their own theories. Cross-listed with PS 315

HS 320
Russia and the Soviet World
3 credit hours
As required

A study of the emergence of imperial Russia as a European power, its expansion and industrialization, the forces which blended to bring about the Revolution of 1917, the growth and development of the Soviet Union under Lenin and Stalin, and the fall of communism. Special emphasis is given to Marxism as it has been put into practice in the Soviet system.

HS 326
History of Modern Germany
3 credit hours
As required

A study of the impact of the French Revolution on German political and cultural life; of the growth of liberalism and nationalism; of the wars of unification, Bismarckian Germany and World War I; of the rise and fall of National Socialism and of the recovery and post-war problems.

HS 327
History of Modern Europe
3 credit hours
As required

A survey of modern European history (beginning with the turn of the century) that is intended to provide global awareness and an appreciation of the accomplishments of other cultures. This course also provides a particular perspective of the American way of life as it has been influenced by European cultures.

HS 328
East Asian History
3 credit hours
Fall

An overview of the history of Korea, Japan, China, Singapore, Taiwan, Hong Kong, and Malaysia. The domestic, political, social, and economic bases of the historical development of these nations will be considered. Political influences of other world powers will be considered. Cross-listed with IS 328

HS 330
Women in U.S. History
3 credit hours
As required

This course examines through women's eyes the images and realities of women's social, political, and economic lives in America from the 1600's to the present day. We will use primary documents and biographies to observe individuals and groups of women in relation to legal, religious, and social restrictions, women's vital roles in 19th century moral reform movements, the birth of the women's rights movement, and the immigrant experience. An important component of the course will be women's activism and women's roles in important social movements in the latter half of the 20th century, including civil rights, women's liberation, and gay and lesbian rights. The course concludes with an assessment of feminism in the present day.

HS 336
A History of American Values, Beliefs and Ideas
3 credit hours
Every third year

In this course we explore the central values, beliefs and ideas that have helped to both shape and reflect the changing history of the United States. Special attention is paid to how particularly important values and ideas reflected certain time periods in American history, and helped to make this country unique. America's values and beliefs evolved both from social changes and grassroots political movements as well as from its leaders and influential thinkers. Cross listed with PS 336

HS 338
History of Black Americans
3 credit hours
As required

A history of the experience of Black Americans from their origins in West Africa to contemporary times. Emphasis is given to African society prior to the advent of the slave trade; the various systems of slavery in America; the impact of slavery on American society; emancipation and reconstruction; contributions of Black Americans and self-help; Black Americans in war and the Civil Rights Movement of the 1960's and 1970's.

HS 3XX
History Elective
3 credit hours
Fall/Spring/Summer

Any 3-credit Upper Division (200- or 300-level) History course fulfills the Liberal Arts Component History requirement for students in the RN-BSN Degree Completion Program.

HS 455
History Seminar
3 credit hours
Fall

A research course acquainting students with historical research methods through the writing of a seminar paper and through group discussion of the research process. Required for majors.

PreRequisites: senior status

HS XXX
History Elective
3 credits
As required

Any 3 credit History(HS) course.

HSC 001
Professional Aspects of Anesthesia Practice
0 credit hours
Fall

This course includes an introduction to the ethics, legal aspects, psychology, and professional adjustments associated with a career in anesthesia. The history of anesthesia and nurse anesthesia is presented, as well as a discussion of the role of the CRNA in department management and organization.

PreRequisites: GRAD Health Science Program

HSC 201
Radiologic Technology I
2 credit hours
Fall

This introductory course will lay the groundwork for successive radiography courses. The course provides information on radiographic anatomy of the upper and lower extremities, the history of imaging and an introduction to radiation, an introduction to radiation protection, and professionalism. Extensive orientation and certification in CPR are also included in this course. This course entails approximately 56 clock hours.

HSC 202
Clinical Education I
1 credit hour
Fall

This course provides orientation to radiographic equipment, procedures, department policies, and patient care and safety. Competency based clinical instruction is provided in examination of upper and lower extremities. This course entails approximately 80 hours of clinical experience and 35 hours of class/lab.

HSC 203
Radiography Technology II
2 credit hours
Spring

This course provides information on the formation and recording of the radiographic image including film processing and darkroom design and function. Patient care components, such as vital signs, oxygen administration, infection control, and patient assessment are presented. Radiographic anatomy of the chest thoracic and abdominal cavities is included. This course entails approximately 40 clock hours.

PreRequisites: HSC 201, HSC 202 with a 75% or better.

HSC 204
Clinical Education II
2 credit hours
Spring

This course provides competency based clinical instruction in examination of the chest, abdomen, shoulder girdle, and bony thorax. This course entails approximately 120 hours of clinical experience and 40 hours of class/lab.

PreRequisites: HSC 201, HSC 202 with a 75% or better.

HSC 205
Radiologic Technology III
2 credit hours
Summer

This course provides instruction and investigation into Medical Ethics & Law as well as Radiographic Technique. Information is provided on the controlling and influencing factors of radiographic technique formation, comparison, and conversion. An introduction to radiographic physics is included in this course. This course entails approximately 30 clock hours.

PreRequisites: HSC 203, HSC 204 with a 75% or better.

HSC 206
Clinical Education III
3 credit hours
Summer

This course provides competency based clinical instruction in examination of the pelvis, hips and spine. This course entails approximately 240 hours of clinical experience and approximately 30 hours of class/lab.

PreRequisites: HSC 203, HSC 204 with a 75% or better.

HSC 207
Radiologic Technology IV
2 credit hours
Fall

The biologic hazards of radiation are emphasized in the Radiobiology portion of this course. The Radiation Protection segment provides in-depth information on the concepts of radiation detection, measurement, patient and radiographer protection, agencies, and regulations. The Patient Care portion of the course focuses on contrast media, radiographic pharmacology, medical emergencies, and venipuncture instruction and certification. This course entails approximately 40 clock hours.

PreRequisites: HSC 205, HSC 206 with a 75% or better.

HSC 208
Clinical Education IV
2 credit hours
Fall

This course provides competency based clinical instruction in examination of the skull, facial bones, and paranasal sinuses. This course entails approximately 240 hours of clinical experience and approximately 40 hours of class/lab.

PreRequisites: HSC 205, HSC 206 with a 75% or better.

HSC 209
Radiologic Technology V
2 credit hours
Spring

This course provides information on the equipment and physics of x-ray production, and quality control requirements. Special imaging methods and alternate imaging modality equipment will be presented. This course entails approximately 40 clock hours.

Prerequisites: HSC 207, HSC 208, and PHY 215 with a 75% or better.

HSC 210
Clinical Education V
2 credit hours
Spring

This course provides competency based clinical instruction in radiographic examinations of the digestive, urinary, hepatobiliary, and respiratory systems as well as the soft tissues of the neck. Formal film critique is also presented. This course entails approximately 240 hours of clinical experience and 40 hours of class/lab.

Prerequisites: HSC 207, HSC 208 with a 75% or better.

HSC 211
Radiologic Technology VI
2 credit hours
Summer

Information on various pathologic conditions and their impact on the radiographic process is presented in this summer session. This course entails approximately 15 clock hours.

Prerequisites: HSC 209, HSC 210, BL 123, BL 124 with a 75% or better.

HSC 212
Clinical Education VI
2 credit hours
Summer

This course provides competency based clinical instruction in radiographic examinations of the endocrine, circulatory, nervous, and reproductive system, as well as on arthrography. This course entails approximately 192 hours of clinical experience and 15 hours of class/lab.

Prerequisites: HSC 209, HSC 210 with a 75% or better.

HSC 213
Radiographic Review
2 credit hours
Summer

This final course in the radiography program provides a comprehensive review of all of radiographic material that has been presented in order to prepare the student for the ARRT certification examination. Clinic sessions will focus on demonstration of competency in all ARRT required radiographic procedures. This course entails approximately 168 hours of clinical experience and approximately 45 clock hours.

Prerequisites: HSC 211, HSC 212 with a 75% or better.

HSC 500
Pharmacology I
3 credit hours
Fall

This course introduces the basic principles of pharmacology. Topics include the pharmacokinetics of drug absorption, distribution, metabolism and excretion; the mechanisms of drug action; drugs affecting the central nervous system and the autonomic nervous system; inhaled anesthetics; and neuromuscular blocking agents and reversal.

HSC 501
Pharmacology II
3 credit hours
Spring

This course is a continuation of Pharmacology I. It is an intensive and comprehensive study of drugs and adjuvant agents currently utilized in the practice of anesthesia and therapeutics. The course will include a review of local and intravenous anesthetics; narcotic agonists and antagonists; other psychotropic agents; anti-inflammatory drugs; and drugs that act on the cardiovascular, respiratory, renal, hepatic, gastrointestinal and hematological systems.

HSC 503
Organic & Medicinal Chemistry
3 credit hours
Fall

This is a one-semester survey course in organic chemistry organized around the functional groups of compounds. Aspects of organic chemistry pertinent to health, environment, and biochemistry are stressed. Time permitting, classes of drug molecules will also be examined. Because concepts such as spatial orientation and geometric, optical and conformational isomerism are essential to an understanding of drug action, these concepts are essential to the course.

HSC 504
Biochemistry
4 credit hours
Spring

This course is an introduction to the chemistry of living organisms. It includes a discussion of cellular macromolecules, metabolic pathways, energy transformation and respiratory mechanisms. The composition of body fluids is also considered. The effects of anesthesia on body fluids, on the function of major organs, and on the activity of specialized molecules will be described. The major theories of narcosis and their biochemical implications will be examined.

HSC 510
Nursing Research I
3 credit hours
As required

This course is designed to explore the nature, value, and utility of nursing research. An overview of the process by which research is conceived and conducted is presented, with emphasis on varying approaches and methodologies, conceptual consistency, and ethical considerations. Critical appraisal of published research affords the student the opportunity to become a more discriminating consumer of research and a better-informed participant in the research process. The relationships among research, theory, and practice are presented and linked to the student's arena of practice.

HSC 512
Medical Physics
4 credit hours
As required

This is a survey course in physics, which will cover topics of importance to anesthetic applications. Essential concepts related to atomic structure, pressure, hydrostatics, hydrodynamics, the ideal gas laws, diffusion, heat and vaporization will be presented. The physics of fire and explosions as well as safety issues will be discussed. The development of problem solving skills will be emphasized.

HSC 521
Anatomy, Physiology, & Pathophysiology I
5 credit hours
Fall

This course is a study of the structure and function of the human body. Emphasis is placed on the nervous, muscle and cardiovascular systems. Selected pathophysiology of each of the above systems will be examined.

HSC 522
Anatomy, Physiology, & Pathophysiology II
5 credit hours
Spring

This course is a continuation of Anatomy, Physiology, and Pathophysiology I. The course will cover the cardiovascular, respiratory, renal, hepatic and endocrine systems. Selected pathophysiology of each of the above systems will be discussed.

HSC 530
Anesthesia Didactics I
6 credit hours
As required

This course is an introduction to anesthesia practice and techniques. It includes topics which deal with pre-operative evaluation and interview of patients, anesthetic drugs, anesthesia selection and care plans, patient positioning, fire safety, postoperative visits, monitoring, anesthesia machines, airway management, venipuncture, and other principles of anesthetic management.

HSC 612
Nursing Research II
3 credit hours
As required

This course is designed to provide the opportunity for continued investigation into the role of research in nursing practice. Through a variety of research activities students will be invited to apply the concepts of research and the research process that were presented in Nursing Research I to an independent exploration of a selected area of interest in nursing.

HSC 630
Anesthesia Didactics II
6 credit hours
As required

This course examines specific anesthetic techniques used for surgery involving pediatric, neurosurgical, obstetric, thoracic, dental, endoscopic, vascular, cardiac, abdominal, emergency, diagnostic and outpatient procedures. Conferences will be an integral part of this course and will include a review of journal articles and case discussions.

HSC 655
Advanced Theory and Practice of Anesthesia
4 credit hours
As required

This course is designed to build upon the student's basic knowledge and skills. It will encompass and integrate a variety of input for medical and anesthetic management. It will focus on a greater depth of understanding and the ability to analyze concurrent problems that can arise in patient care and propose an appropriate course of management.

HSC/NS 105
Drugs and the Human Body
3 credit hours
As required

This course deals with the properties and effects of drugs, and in a more general sense, with the interactions of chemical compounds in living systems. It is a discipline of biology and is closely related to other disciplines, particularly physiology and biochemistry.

ID 111
Interior Design Graphics I
3 credit hours
Fall

An introduction to the drafting techniques that are used by the interior designers to represent built environments, as well as the components found in them, with scale drawings. Instruction focuses on understanding concepts and developing the skills needed to produce manually-generated and computer-generated drawings, architectural lettering, and drawing composition.

ID 120
Interior Design I
3 credit hours
Spring

An introductory course in interior design theory, principles, and processes, which are applied to spaces with simple design programs where people live and work.

PreRequisites: ID 160, ID 111

ID 121
Interior Design Graphics II
3 credit hours
Spring

A continuation of Interior Design Graphics I. This course focuses on three-dimensional drawing techniques using both manual and computer methods. Course content includes perspective construction, freehand sketching, drawing delineation, introduction to rendering, and presentation graphics (e.g., board compositions and layout, reproduction methods).

PreRequisites: ID 111

ID 123
Drawing I
3 credit hours
Fall/Spring

A study-workshop in the "language of drawing" including practice in expression and communication in various media utilizing principles of line, tone gesture, exaggeration and lighting. Cross-listed with GCD 123

ID 160
Foundation Design I
3 credit hours
Fall

An introductory course in the creative process, the principles of design and elements of art, which are fundamental to all two and three dimensional design pursuits. Studio projects will explore the relationship between concept and execution, with emphasis on the principles of design and the elements of line, shape, value, texture, form and space. This course will emphasize the link between foundation design and digital technology by requiring at least one project using the computer and appropriate software. Cross-listed with GCD 160

ID 162
Foundation Design II
3 credit hours
Spring

An extension of the study of issues initiated in ID 160 Foundation Design I, with the addition of new areas of inquiry. Student skills will be expanded and refined in such formal visual concerns as color systems, historical style conventions, special systems, optical illusions, and manipulation of form.

PreRequisites: ID 160

ID 215
Computer Graphics for Interior Design
3 credit hours
As required

An advanced skills course in computer-aided design (CAD) and other computer graphic software programs. This course builds upon principles, concepts, and techniques learned in ID 111, ID Graphics I and ID 121, ID Graphics II for designing with two-and-three dimensional computer-aided drafting software. Students are provided with extensive hands-on experience to familiarize themselves with the capabilities of the computer and the graphic programs that are commonly used in interior design practice.

PreRequisites: ID 121, IST 105

ID 232
History of Interior Design and Architecture I
3 credit hours
Spring

A survey of interiors and architecture from the ancient world through the gothic period. Emphasis is on understanding the development of our consciousness of space and the relationship between plan development, structural concepts, technology and materials.

PreRequisites: EN 112

ID 235
Photography for Interiors
3 credit hours
Spring

An investigation into the special concerns of architectural photography and the use of the camera as a design tool. Students photograph existing interiors, work in progress and design projects in model and drawing form.

PreRequisites: ID 160

ID 237
Textiles for Interiors
3 credit hours
Spring

A thorough investigation into the history, manufacture, application and installation of fibers and fiber-based products used in interior spaces. Criteria for evaluating performance, compliance with fire and building codes, and impact on the environment are discussed.

PreRequisites: ID 246 Exception for 3-yr Acc. students(no pre-req)

ID 238
Interior Design II (A and B)
6 credit hours
Fall/Spring/Summer

An investigation of the design process with emphasis on basic programming tools, concept development and the relationship between form, function and place-making. Design projects, emphasizing commercial with at least one residential, range in size up to 6000 square feet. Project organization is from simple to complex in each semester.

PreRequisites: ID 238A: Completion of Advisory Review, ID 238B: ID 238A

ID 239
History of Interior Design and Architecture II
3 credit hours
Fall

A survey of interiors and architecture from the Renaissance through the 18th century, with special emphasis on styles and furniture.

Prerequisites: EN 112 & ID 232 recommended

ID 244
Building Technology I: Construction Systems
3 credit hours
Fall

An overview of architectural building systems that affect the responsibilities and decisions of interior designers and facility managers. Emphasis is placed on structural systems and architectural components of buildings (e.g., floors, walls, ceilings, doors, windows, moisture protection, etc.) as well as relevant vocabulary, codes, and environmental concerns.

Prerequisites: ID 121

ID 245
Architectural Rendering
3 credit hours
Fall/Spring

An advanced course in the delineation of the interior space. Emphasis is on the development of individual style and expanded technical rendering knowledge.

Prerequisites: ID 121

ID 246
Building Technology II: Finish Materials
3 credit hours
Spring

The study of finish materials as they pertain to interior spaces. Materials are investigated in relation to their installation on floors, walls, and ceilings. Criteria for evaluating performance under differing conditions, compliance with fire and building codes, and impact on the environment are discussed. Conventional and innovative uses of finish materials to enhance design concepts are explored.

Prerequisites: ID 121, ID 160, ID 244

ID 248
Furniture & Custom Detailing
1-3 credit hours
Spring

A studio course that provides instruction and hands-on experiences related to the materials, design, and construction techniques of furniture, cabinetry, and millwork detailing.

Prerequisites: ID 238A

ID 250
Directed Study
1-3 credit hours
As required

This directed study opportunity meets the needs of students who require individual help with specific aspects of their major that cannot be sufficiently addressed by an existing course.

ID 315
Study of Great American Houses
3 credit hours
Fall/Summer

A study of great houses in the United States from early salt boxes to Mies' Farnsworth House. Emphasis is placed on historic context and each structure's contribution to contemporary residential design.

ID 328
Interior Design III (A and B)
6 credit hours
Fall/Spring/Summer

An investigation into the development of complex interior spaces. Students are encouraged to develop a holistic approach to the design process as they learn to integrate design, technical, regulatory, and budgetary issues. Design projects that emphasize commercial and adaptive reuse, and one residential project, range in size from 5,000 to 10,000 square feet.

PreRequisites: ID 328A - Successful completion of Conclusive Review and ID 340 (or concurrent with ID 340); 328B - 328A

ID 332
History of Interior Design and Architecture III
3 credit hours
Spring

survey of nineteenth and twentieth century interiors and architecture in Europe and the United States. Special emphasis is placed on designers and their contribution to contemporary American environment.

PreRequisites: EN 112 & ID 239 recommended

ID 340
Building Technology III: Lighting and Electrical Systems
3 credit hours
Fall

Fundamentals of lighting design and an overview of power distribution and communications systems pertinent to interior spaces. Technical aspects of lighting, its effect on behavior and perceptions of space, color, and finish materials, and environmental concerns specific to lighting are examined. Current issues relative to power distribution and telecommunication systems are incorporated. Emphasis is on the application of technical knowledge to design projects and the management of the workplace.

PreRequisites: ID 238A

ID 341
Building Technology IV: Control Systems
3 credit hours
Spring

An overview of mechanical (HVAC), plumbing, fire detection and suppression, acoustic, security, and transportation systems as they relate to the design and management of interior spaces. Emphasis is given to the application of technical knowledge to indoor air quality and the design of interior environments.

PreRequisites: ID 238B

ID 355
Kitchen and Bath Design
3 credit hours
As required

An elective interior design course that provides the opportunity for studying the fundamentals of kitchen and bath design. Aspects of technology, accessibility and applicable building codes will be examined. Material, equipment and finish selection, cabinetry detailing and the integrations of lighting, electrical and mechanical systems will be explored.

PreRequisites: ID 238A

ID 359
Advanced Ideas Seminar in Interior Design
1-3 credit hours
As required

An open-ended seminar dealing with various aesthetic questions pertinent to the student's needs. Occasional field trips and guest speakers are included in the course activities.

PreRequisites: Will vary according to subject

ID 400
Directed Professional Experience
1-3 credit hours
As required

This study option provides a structured opportunity for one or more students to work on a professional project under the direction of a faculty member who assumes the role of project manager.

ID 441
Business Practices for Interior Design
3 credit hours
Spring

Professional aspects concerning the practice of interior design including such topics as estimation, trade relations, contracts and office procedures and organization.

PreRequisites: ID 238B

ID 442
Contract Documents
3 credit hours
Fall/Summer

A basic course in working drawings and their development in conjunction with specifications. Students examine conventions, techniques and layout by producing a full set of architectural drawings for a small design project. Specifications are written to support the drawings.

PreRequisites: ID 328A, ID 244, ID 246, ID 340, ID 341

ID 450
Special Computer Topics in Interior Design
3 credit hours
As required

A special topics elective course in computer applications as they are used in the practice of interior design. Topics might include advanced instruction in the software learned in ID 215, Introduction to CAD, instruction in another CAD software program, or project management using the computer.

PreRequisites: ID 215

ID 451
Interior Design Internship I
3 credit hours
Fall/Spring/Summer

A practical work experience in a field setting. The student receives credit for work performed in the area of interior design.

PreRequisites: ID 328A

ID 452
Interior Design Internship II
3 credit hours
Fall/Spring/Summer

A practical work experience in a field setting. The student receives credit for work performed in the area of interior design.

PreRequisites: ID 451

ID 457
Independent Study
1-3 credit hours
Fall

This course is limited to those few students who have demonstrated an unusual level of ability and an intense commitment to a particular area of interior design.

PreRequisites: ID 328A

ID 458
Portfolio Preparation
3 credit hours
Fall

Instruction and guidance in the preparation of a professional portfolio. Prerequisite: senior status in interior design major.

PreRequisites: ID 328A

ID 459
Senior Design Seminar I
3 credit hours
Fall

Principles and techniques of interior design research are applied to a design issue that is selected by a student and approved by interior design faculty. Students present oral and visual documentation of their research to design practitioners. In the last several weeks, students apply the semester's research to a design program and site identification that provide the basis for the design project realized in ID 460 Senior Design Seminar II.

PreRequisites: ID 328B, ID 244, ID 246, ID 340, ID 341

ID 460
Senior Design Seminar II
3 credit hours
Spring

Building on the research knowledge and design program evolved in ID 459 Senior Design Seminar I, as well as all previous experiences in the interior design curriculum, a student generates a fully developed design solution that is documented with drawings and/or models. Students present their work at the end of the semester to a design jury.

PreRequisites: ID 459

INT 339
International Business Management
3 credit hours
Fall

An introduction to international business management with particular emphasis on the field of international finance and economics. In addition, the course deals with problems in the area of finance, marketing, production and organization, both from the perspective of the multinational corporation and the domestic corporation trading in international markets.

PreRequisites: JR status

INT 446
International Finance
3 credit hours
Spring

A growing number of firms engage in various types of international financial transactions. This course focuses on international financial management issues such as foreign exchange markets, international capital markets such as Eurobond markets and international banks, international banking and international risk analysis.

PreRequisites: FIN 332 Recommended: INT 339

INT 448
International Legal Environment
3 credit hours
Spring

This course introduces concepts of international laws of contracts, sales and negotiable instruments. It also provides an overview of problems related to dispute settlement in international business and governmental administrative conflicts that restrict commerce between residents of different nations. Cross-listed with IS 448

PreRequisites: AM 209, Recommended AM 210

INT 451 & 452
International Management Internship I &II
3 credit hours
Fall/Spring/Summer

A field experience in an international management position under the direction of a field supervisor and a faculty member. The internship is designed to offer the student an opportunity to acquire work experience in an international business environment.

PreRequisites: INT 339 and permission of department chairperson

INT 457
Independent Study in International Management
3 credit hours
As required

The independent study is intended to give an opportunity to students with superior ability to pursue an area of study in international management that is very specific in focus and/or not covered in existing offerings.

PreRequisites: Q.PA. 3.0, senior status and permission of a faculty member

INTEG100
Integrative 100
3 credit hours
As required

The first in a sequence of three interdisciplinary courses required as part of the Core Curriculum. Integrative 100 level courses emphasize progressive and integrated learning, organized around the concept of the community. Students should take the first course in their freshman year. The two final courses may be completed at any time in the College career but must be taken in sequence. Students may choose to take a sequence of three semester courses in Spanish, French, or German to fulfill the Integrative 100, 200, 300 series. Students who choose this option will be placed in the appropriate language course based on their level of proficiency, and take three courses beginning with that level. Note that native speakers of those languages may not adopt this option.

INTEG100-001
Media and Democracy
3 credit hours
As required

The topic of Media and Democracy is neither narrow nor simplistic. We will examine the philosophical, spiritual, economic, and social aspects of democracy in various societies today. Media will be examined as a tool for providing information for the members of society. The various evolutions and changes in media, beginning with the printing press, will be a part of our studies. We will also examine the role of media in transition democracies. Readings on the role of the media in these democracies, and the role of media in different cultural contexts, will be explored. Furthermore, we will examine the role of different community contexts in fostering/nurturing democracy.

INTEG100-004
The Rule of Law
3 credit hours
Fall

This course is open to all students who have an interest in how law impacts both the community and society as a whole. This course will serve as an introduction to 200 and 300 level courses dealing with the role of the individual in society and as a citizen of the world. It reflects an integration of law, history, criminal justice and political science.

INTEG300
Integrative 300
3 credit hours
As required

This is the third in a sequence of three interdisciplinary courses required in the Core Curriculum. Integrative 300 level courses emphasize progressive and integrated learning organized around a global perspective. Students should take an Integrative 100 level course during their Freshman year. The two final courses may be completed at any time in the college career but must be taken in sequence. Students may choose to take a sequence of three semester courses in Spanish, French, or German to fulfill the Integrative 100, 200, 300 series. Students who choose this option will be placed in the appropriate language course based on their level of proficiency, and take three courses beginning with that level. Note that native speakers of those languages may not adopt this option.

INTEG300-001
The Moral of the Story
3 credit hours
As required

This course addresses prominent ethical issues and controversies found in world literary texts. The nature of the course is interdisciplinary in that it offers students a fundamental grounding in both Philosophical Ethics and World Literature. Students are first introduced to classical and contemporary literature by renowned authors. From these readings, students then investigate the most critical ethical issues evoked within the texts. This is accompanied by an examination of basic philosophical theories and principles in moral reasoning as they pertain to the relevant ethical issues.

INTEG300-007
Women Across Cultures
3 credit hours
As required

The extent of Western culture's exposure to the lives of women in Third World nations is limited oftentimes to the disadvantages and degradation women experience within their respective cultures. This course will explore the varying roles, positions and statuses of women in three non-Western regions of the world - the Middle East, Sub-Saharan Africa, and India. Among the topics covered are: the history of each region; the similarities and differences in women's experience across diverse regions; the dynamics and creativity of women's activities and their importance in various cultures; gender roles and relationships; the historical and cultural roots and consequences of subordination and oppression; roles of women in agriculture, religion, politics, crafts, the arts, and other arenas; the impact of "modernization" on women's lives; and the struggle for women's rights.

IS 201
Global Politics
3 credit hours
Fall

This is an introductory course in the field of international relations, providing an overview of major theories and concepts of international relations and an historical background for contemporary world politics. Major topics include the contemporary international system, economic development, foreign policy behavior, international conflicts and international institutions. Cross-listed with PS 202

IS 203
Intercultural Communication
3 credits hours
Fall

This course begins with a focus study on communication factors which affect any cross-cultural interpersonal interaction. The students then survey specific differences between U.S. cultural customs and those of countries presently involved in La Roche's Pacem In Terris Institute. Finally, the role of the media in intercultural relations is discussed. Cross-listed with COM 203

PreRequisites: COM 101/SELSOC-008

IS 211
World Geography
3 credit hours
Fall (even yrs)

A study of the interactions between human beings and the land, and the influence of geography in shaping work and culture throughout the world. Cross-listed with GEO 211

IS 303
International Political Economy
3 credit hours
Fall (even years)

An overview of major theories of international political economy including a more detailed understanding of the fast growing economic and institutional infrastructure of the international system. Topics include the development of intergovernmental and non-governmental international organizations (IGOs and NGOs), international treaties and laws governing trade and business practices, and mechanisms for the resolutions of international disputes. Cross-listed with AM 301

PreRequisites: AM 105

IS 310
Cultural Geography & the Human Mosaic
3 credit hours
Fall (odd years)

The many ways in which humans have changed the face of the earth in response to culture is known as the human mosaic. This course applies the major themes of cultural geography to population, language, religion, agriculture and urbanism. A basic knowledge of world geography is assumed. Cross-listed with GEO 310

IS 311
Research Methods
3 credit hours
Spring

This course introduces the student to the design of explanatory models in the field of international relations, methods for literature surveys and more commonly used quantitative and qualitative analytical techniques.

PreRequisites: MT 224

IS 321
Comparative Government
3 credit hours
As required

This course focuses on the government, policies and politics of different nation-states around the world, and investigates the political science approaches to studying government and politics in different parts of the world. The focus is not only on forms of governments, but also the major political and social factors that affect political change in different world areas, the relationship between states and societies, and the comparative study of democratic and non-democratic nations. Cross-listed with IS 321

IS 325
Development: Political, Social & Economic Issues
3 credit hours
Every third year

A study of the political, social, and economic realities of Latin America, Asia, and Africa. Emphasis is placed on ecological, racial, ethnic, and population problems, as well as on the legacy of colonialism, developmentalism, and dependency. Human rights and special problems of women will also be addressed. Cross-listed with PS 325

IS 333
American Foreign Policy
3 credit hours
As required

The reasons behind the foreign policy decisions of the U.S. government in recent decades are examined; different theories are explored for explaining shifts and continuities in foreign policy decision-making. Contemporary challenges to American foreign policy, from Iraq and security threats to peace-making efforts in the Middle East, are analyzed. Cross-listed with PS 333

IS 448
International Legal Environment
3 credit hours
Spring

This course introduces concepts of international laws of contracts, sales and negotiable instruments. It also provides an overview of problems related to dispute settlement in international business and governmental administrative conflicts that restrict commerce between residents of different nations. Cross-listed with INT 448

PreRequisites: AM 209 recommended; junior status

IS 451
Internship in International Studies I
3-6 credit hours
Fall/Spring/Summer

A field experience in an international organization under the direction of a field supervisor and a faculty member. The internship is designed to offer the student experience in a component of international studies.

PreRequisites: Junior or Senior status

IS 452
Internship in International Studies II
3-6 credit hours
Fall/Spring/Summer

A field experience in an international organization under the direction of a field supervisor and a faculty member. The internship is designed to offer the student experience in a component of international studies.

IS 455
Senior Seminar in International Affairs
3 credit hours
Spring

This is the capstone course for all international studies students. It will be the vehicle for students to synthesize their knowledge of international relations through the development of individual research endeavors in a special topic relevant to their respective concentration areas. Students will have the opportunity to discuss and share their research with fellow students in a seminar format.

PreRequisites: IS/PS 311

IS 457
Independent Study
1-4 credit hours
As required

Students work independently with a faculty member on a topic of relevant interest to the advanced student pursuing a major in International Affairs.

PreRequisites: Junior or Senior standing; permission of supervising faculty member and student's academic advisor.

IST 105
Practical Computer Applications
3 credit hours
Fall/Spring

This course provides the student with "hands-on" use of personal computers and Microsoft Office 2007. Email netiquette and management as well as effective and efficient access and evaluation of information from the Internet are also introduced. Emphasis is on learning the concepts and skills necessary to complete the task at hand using the computer, related software, and the Internet. While learning the keystrokes is important, equally important is using the right tool for the right job. Word processing, electronic spreadsheets, graphic presentations, and the Windows Operating environments including file and folder management are presented in this course.

IST 106
Advanced Practical Computer Applications
3 credit hours
As required

This user-oriented course is for students who already understand the fundamentals of PC-compatible functions of Microsoft Windows and the Microsoft "Office Suite" software, Word, Excel, Access, and Power Point. This course provides the student with an introduction to the advanced features and functions of PC-compatible computer software, in general, and Microsoft Windows and Microsoft "Office Suite" in particular. Through coverage of the advanced features of those programs, the student will acquire the solid working knowledge of them required of today's professionals. In addition, the course will improve the student's working knowledge and proficiency with the basics of those programs. The course also provides peripheral coverage of the major components of "management information systems" and "decision support systems."

PreRequisites: IST 105 or equivalent or passing an IST Department approved exam to test out of IST 105 (this course is required for all students who "test out" of IST 105)

IST 121
Problem Solving
3 credit hours
Spring

This course provides step-by-step progression, with detailed explanations and many illustrations, from the basic of mathematical functions and operations to the design and use of such techniques as codes, indicators, control-breaks, arrays, pointers, file updates, report handling, data structures, and object-oriented programming. The tools of problem solving, including decision tables and trees, structure charts, IPO charts, algorithms, and flow-charts are demonstrated and explained. Throughout the course, typical business problems are presented for solutions, providing excellent experience for the students.

IST 125
Computer Hardware
3 credit hours
Fall

This course provides both a theoretical and a hands-on, detailed, progressive examination of "personal" (PC) computer system hardware, both "stand alone" personal computers and distributed-data / networking hardware. Throughout the course, the concepts discussed, and the hardware-related "problems" presented for discussion and "solution," are typical of the knowledge required to work with personal and business-world computer hardware applications, providing excellent experience for the students.

IST 205
IST: A Global Perspective
3 credit hours
Spring

This course provides students with an introductory and general examination of computer-based systems and users as they exist throughout the world. A particular focus of this course is providing students with an overview of information technology, as it exists in both the developing as well as the developed world. To this end, students will examine computer use trends, industry trends, economic and resource patterns, employment trends and cultural patterns that affect or are affected by information technology.

IST 208
Introduction to Cyberspace
3 credit hours
Fall/Spring

This course introduces the students to the virtual world of the Internet. The course will focus on the vast array of on-line informational resources available through the Internet. Students will have the opportunity to work with the tools necessary to navigate through the "net". Implications of the Internet, such as security and privacy, as well as future trends will also be discussed.

IST 221
Management Of Information Systems
3 credit hours
As required

This course provides discussion and analysis of current issues related to the management of information systems. Major areas analyzed include knowledge workers and their impact on an organization; information technology as an organizational resource; "virtual" marketplaces; network management and data modeling.

IST 225
Computer-Based Training & DL
3 credit hours
As required

This course focuses on the design, development and evaluation of computer and web-based training systems. An introduction to instructional design theory as it relates to computer and web-based instruction will be included. Additionally, this course will focus on the advantages and disadvantages of electronic educational communication.

IST 230
Networking
3 credit hours
As required

This course provides students with an introductory examination of computer-based networked environments. Of particular interest in this course is providing students with both a conceptual as well as an applied understanding of networks and networking. Students will be introduced to the organizational framework in which networking exists. Additionally, students will have the opportunity to explore networking on practical and applied levels so that issues such as hardware and software solutions and applications, as they relate to networked environments, will be examined.

PreRequisites: IST 125

IST 245
Data Base Management Systems
3 credit hours
Fall

This course provides the basic knowledge required to operate and use a computer to perform the practical tasks of data file creation, retrieval of data and maintenance of data files. DBMS's are used for all types of applications involving medium-to-large scale data files. Major focus is on the acquisition of a working knowledge of the theories, principles and operating procedures of data base management systems using a representative DBMS. This course is appropriate for all potential users of computers in all fields of study.

IST 250
Distributed Data Processing
3 credit hours
As required

In this course the features and operation of centralized, decentralized and distributed data processing systems are examined. The impact of distributed systems on the business enterprise is examined. Technology implications of computer hardware, software and communications are discussed in relationship to the design, development and implementation of distributed data processing systems.

IST 300
Advanced Computer Hardware
3 credit hours
As required

This course provides students with a more sophisticated and detailed examination of personal computer (PC) systems hardware with particular emphasis on distributed-data/networking hardware. Of particular interest in this course is the development of an expert awareness of the issues and technologies that currently serve and are most likely to continue to serve the computer-user community.

PreRequisites: IST 125

IST 305
Legal Issues and Info Tech
3 credit hours
Spring

This course provides students with an introduction to and overview of those fundamental legal issues that are pertinent to the acquisition and deployment of information technology. Students will be given an overview of local, federal and international legal systems and their relationship to intellectual, civil and criminal legal principles as they apply to information technology.

IST 308
Web Page Usability & Programming
3 credit hours
As required

This course offers a comprehensive analysis of Web sites. Emphasis will be on the development of interactive web pages and the interpretation of data gathered from visitors for presentation to web site owners. Web sites will be loaded on to a network and evaluated for functionality, effectiveness and delivery of data exchange. The emphasis of this course is to produce dynamic, interactive web pages that will integrate with databases.

IST 310
IT Services Administration
3 credit hours
As required

This course offers a comprehensive investigation of the duties and responsibilities of an Information Technologist. Four areas of concern for the IT specialist in this capacity are: Help Desk support, Web Page Support, Training and Development and Customer/Service Relationships. During this course, the student will participate in the on-campus Student-to-Student Help Desk. Internal internships may be available through the IT department.

PreRequisites: IST 210, Junior status

IST 315
Human Computer Interaction
3 credit hours
As required

This course is an introduction to the interdisciplinary field of human-computer interaction (HCI). The study of HCI focuses on the interaction between users and their computer systems. The course also examines the implications and effects of human-computer interaction in and for society; conversely, the course explores ways that society influences human-computer interactions. Analysis of interface design will be included, in the context of evaluation and evolution of usability.

IST 330
Linux
3 credit hours
Fall

This course provides a hands-on, step-by-step, progressive examination of the Linux/UNIX operating system. The student will explore Linux/UNIX commands, the various "shells" used in Linux/UNIX, and some of the applications available in Linux/UNIX, including "X Windows" and a variety of "productivity" applications (word processing, spreadsheet program(s), data base management system program(s) et al). Throughout the course, OS-related "problems" presented for solution are typical of personal and business-world applications of the OS, providing excellent experience for the students.

PreRequisites: IST 105, IST 121, IST 125

IST 331
Advanced Networking & Telecom
3 credit hours
As required

This course builds on the foundation knowledge of IST 230 Networking. The content will help the student design, install, maintain and administer networks with confidence. Networking is an extraordinarily complex topic that is evolving daily, requiring skills to evaluate and compare new technologies; this course offers the student a framework for success in network topologies.

PreRequisites: IST 230

IST 334
Computer Programming in Java
3 credit hours
As required

This course introduces the student to computer programming using the cross-platform Java programming language. The conventions of the language, its applications and applications-related advantages and disadvantages are presented. Students will be introduced to the concepts and techniques of Object-Oriented Programming (OOP).

PreRequisites: IST 121

IST 346
Advanced Data Base Management Concepts
3 credit hours
Spring

This course focuses on an investigation and application of advanced data base concepts including data administration, data base technology and selection and acquisition of data base management systems (DBMS). It includes an in-depth practicum in data modeling and system development in a data base environment.

PreRequisites: IST 121, IST 245

IST 442
Systems Analysis and Design
3 credit hours
Fall

This course is a comprehensive examination of systems and design theory and principle, including application of systems analysis and design to real world situations. Also investigated: the various relationships of computer hardware and software to systems analysis and design; how computer hardware and software affect the design of computer information systems. The course proceeds from a generalized introduction to an analysis of "the systems concept" and "the systems of life cycle" to the design of computer information systems.

IST 451
Information Systems Technology Internship I
3 credit hours
As required

A field experience in a computer information systems position, supervised by a field supervisor as well as college faculty. The internship is designed to increase understanding of IST and the IST-related issues and perspectives as they relate to the business and social environment.

PreRequisites: junior or senior status

IST 455
Senior Seminar in IST
3 credit hours
Spring

This is a comprehensive systems course integrating the knowledge and abilities acquired in the IST courses and accounting/administration and management courses in the IST curriculum within a comprehensive system development project.

PreRequisites: Senior status, satisfactory completion of other concentration, division and college requirements

IST xxx
IST Elective
3 credit hours
As required

Students completing the Information Systems Technology major must complete the 54-credits of major requirements by completing a three-credit Information Systems Technology(IST) programming course to be selected in consultation with their advisor.

LEAD 301
Dynamics of Teams
3 credit hours
As required

The purpose of the team building course is to form the cohort into a team that will be supportive of each other. This course provides an examination of team processes, structure, and behavior in organizations. The module places special emphasis on problem solving in-groups, consensus building and using effective team processes and skill development.

Students learn decision-making theory and apply those theories as they study the decision- making process. Using an interdisciplinary approach, the module addresses psychological, sociological, political and management approaches to decision- making. The course also focuses on tools used to enhance decision making including cost benefit analysis, responsibility charting and force field analysis.

LEAD 351
Information Literacy Skills
3 credit hours
As required

It is the purpose of this course to introduce students to the fundamental software application skills required to be productive in today's business world. This course provides the critical skills necessary to evaluate and determine useful quality information for decision- making in an organization. Topics such as problem solving, search strategies for research queries, how to identify good quality information, data collection and analysis, and finally effective communication of results will be discussed. Emphasis will be on formatting works cited, and creating charts and graphs and professional PowerPoint presentations.

LEAD 356
Management and Financial Analysis
6 credit hours
As required

The course is designed to teach the student how to work and manage diverse groups of people in complex organizations. This course looks at traditional and current philosophies of management, theories of motivation and empowerment, job design, contemporary management theories and recent trends in management. Also the focus will be on external capital sources and processes of financing, accounting principles, short and long term financing, and capital budgeting. It is an introduction to the concepts and the problems associated with management of capital.

LEAD 361
Macro Organizational Behavior
3 credit hours
As required

This course examines macro organizational behavior concepts like organizational learning, strategy, structure and design, change management and the role of business and society to the LEAD lexicon. This course will explore, dissect, and distinguish various approaches to employing these concepts as tools to enhance organizational performance. In so doing, we will examine the works of contemporary business writers such as Peter Drucker, Warren Bennis, Jay Conger, Henry Mintzberg, Noel Tichy, Charles Manz, and Peter Senge to name a few.

LEAD 401
Leadership and Ethics
3 credit hours
As required

The business ethics portion of this course provides students with an ethical framework they can apply in the workplace. Students are confronted with ethical issues and taught to resolve them in the organizational context. In addition, students are taught how an individual and an organization can be socially responsible. The leadership portion of this course engages the student in an active exploration of leadership-what is it, and how one develops this trait. To do this, the course emphasizes self-examination and application of leadership concepts as well as surveying various approaches to leadership development and theory.

LEAD 421
Communicating Change
3 credit hours
As required

The purpose of this course is to introduce students to theories and practices of effective interpersonal communication and public speaking relevant to organizational settings. Students study theory so that they have an understanding of why communication is central to achieving organizational goals, and why ethical communication is necessary to long-term organizational success. Students learn to apply theory by developing skills in listening, assessing organizational "audience" and barriers to communication, and by researching and giving presentations on social support, networking, and managing conflict. A segment of this course will also address the importance of communicating the change process in an organization. Students will study various approaches to announcing change and implementing change within an organization. Within the Research portion of this course, the student will learn how to develop a survey. The survey must provide solutions to a problem and collect participants' ideas and opinions are the subject. This survey will be distributed and results tabulated and discussed within the remaining courses of this program.

LEAD 431
HR Concepts & Negotiations
3 credit hours
As required

The effective management of human resources is a key requirement for managers in any organization. This course concentrates on legal aspects of managing human resources in an organization. It covers laws that govern employee discrimination, safety and health, family and medical leave issues and termination. In addition, employee job performance measurement and compensation topics are addressed.

This course concentrates on the relationship among employers, employees and unions in the private sector. It covers labor history and basic labor law, union organizing and union avoidance, collective bargaining, and contract administration, including labor arbitration.

LEAD 456
Global Thinking & E-commerce
3 credit hours
As required

The purpose of the global thinking course is to introduce the LEAD student to methods and implications of thinking on a global level. Multiculturalism will be a major component. The impact of different political systems will be briefly addressed, primarily in the context of how global politics affects business. Finally, the course will address how a business can thrive in a global economy and avoid problems unique to operating management of technology. The increasing recognition of its strategic, competitive value emphasizes the business importance of rethinking IT management.

LEAD 461
Capstone Project
3 credit hours
As required

This course provides the critical skills necessary to evaluate and determine useful information for decision-making in an organization. The student will have an opportunity to study expert's research. We will explore problem solving, search strategies for research queries, how to identify good quality information, data collection and analysis, and finally effective communication of the results. The Capstone Project will replace current Research Project and should be introduced early in the program and be an ongoing assignment for the cohort. Perhaps, a chapter of an overall paper will be generated after each module, along with the module assignment.

The student will notice that this assignment of this course is spread out over a period of nearly 9 months to do the actual research for the project.

MKT 207
Advertising and Public Relations
3 credit hours
Spring

A comprehensive study of advertising, detailing its relationship to marketing practice. Topics such as advertising preparation, media evaluation, market research, pricing and retailing problems are included. The role of public relations in an organizational communication program is also explained. Cross-listed with AM 207

PreRequisites: MKT/AM 221

MKT 221
Marketing Management
3 credit hours
Fall

A basic study of marketing systems in the American economy. This course includes, identifying the activities involved in the flow of goods among manufacturers, brokers, wholesalers, retailers and consumers. The nature of demand, buyer behavior, costs and pricing, sales strategies, promotions and techniques are presented. Cross-listed with AM 221

MKT 312
Buyer Behavior
3 credit hours
As required

This course focuses on the role of buyers in the marketing process. Buyer behavior in the consumer marketplace as well as the organizational buying process is examined. The study of buying behaviors enhances understanding of what marketing strategies are likely to be effective, how humans operate in the marketplace, and what kind of affective, cognitive, and social mechanisms enter into the purchasing decision. A sampling of specific topics addressed includes the role of attitudes, learning and memory, and lifestyles and culture in the buying decision.

PreRequisites: AM/MKT 221

MKT 316
Personal Selling
3 credit hours
As required

This course introduces the student to the basic principles and foundations of Personal Selling on three levels: industrial, commercial and retail. Emphasis is on the detailed analysis of the sales process as viewed by the salesperson. Other sales foundation topics covered include the organizational buying process, sales communications, the theory of adaptive sales, and ethical/legal issues in selling. Using a variety of instructional methods such as role-playing and video cases, students are given an opportunity to practice their newly acquired sales skills.

PreRequisites: AM/MKT 221

MKT 331
Sports Marketing
3 credit hours
Spring

Sports Marketing may be thought of as the specific application of marketing principles and processes to sports products and to the marketing of non-sports products through association with sports. This course examines the complex and diverse nature of sports marketing. A framework will be presented to help explain and organize the strategic sports marketing process as well as the current structure of the sports industry. Specific topics addressed include: understanding spectators, participants, and sponsors, sports marketing branding, women in sports, international sports marketing, the sports 'product', sponsorship programs, ticket pricing and pricing models, stadium economics, and franchising as a distribution tool.

PreRequisites: AM/MKT 221

MKT 333
Marketing Research
3 credit hours
Spring, or as required

Explores the function which links the consumer, customer, and public to the marketer through information -- information used to identify and define marketing opportunities and problems; generate, refine, and evaluate marketing actions; and, monitor marketing performance. This course deals with the planning for, collection, and analysis of data relevant to marketing decision-making and the communication of the results of this analysis to management.

PreRequisites: MKT/AM 221 and MT 140

MKT 349
International Marketing & Export Management
3 credit hours
Fall

An upper level course focusing on key management functions in international marketing: entry strategies, product and pricing politics, financing, promotion and distribution. The course will also concentrate on export management that is the major international activity of most small and medium-sized companies. Cross-listed with INT 349

PreRequisites: AM/MKT 221

MKT 350
Internet Marketing
3 credit hours
As required

Marketers have been using electronic tools for many years, but the Internet and other new electronic technologies have created a flood of interesting and innovative ways to provide customer value. Internet Marketing is traditional marketing using electronic methods. It affects traditional marketing in two ways. First, it increases efficiency in established marketing functions. Secondly, the technology of E-marketing transforms many marketing strategies. The transformation results in new business models that add customer value and may increase company profitability. These new opportunities create many questions that are addressed in this course. How can firms leverage new technologies to maximum benefit? How much commitment should marketers make to Internet marketing programs?

PreRequisites: AM/MKT 221

MKT 401
Marketing for Non-Profit Organizations
3 credit hours
Spring

This course positions marketing as the most critical discipline needed for the success of non-profit organizations. Emphasis is placed on the influencing of behavior over a wide range of target markets including clients, donors, policy accomplished by organizing much of the discussion of strategic and tactical marketing options available for non-profit's own paid staff. This is accomplished by organizing much of the discussion of strategic and tactical marketing options available for non-profits around two central behavioral science models: Stages of Change and BCOS Drivers (Benefits, Costs, Others, Self-Efficacy). In addition, this course removes the misconception of non-profit enterprise flourishing everywhere in the world, including Asian and formerly communist countries. The latest research on institutional structure, volunteering, and fundraising is integrated through lectures, vignettes, and case examples.

PreRequisites: MKT/AM 221 and completion of a minimum of 60 credit hours

MKT 414
Marketing Strategy
3 credit hours
Fall, or as required

A capstone course in marketing that emphasizes planning at the management level. Examines key concepts and issues that impact planning decisions, such as analysis of the marketing environment; formulation of marketing strategies; and development, implementation, and control of the marketing program. Using case studies, students are expected to develop comprehensive marketing plans and recommended solutions to specific situations encountered by marketing professionals operating in a wide variety of organizations.

PreRequisites: MKT/AM 221

MKT 416
Brand Management
3 credit hours
Fall

This course addresses the concept of branding which is of major importance to any company using a branding strategy. The role of the brand manager is examined in this combination theory and skills course. Various marketing techniques are studied for the overall responsibility of a brand in order to increase brand equity.

PreRequisites: AM/MKT 221 & MKT 312 & JR/SR Status

MKT 418
Services Marketing
3 credit hours
Fall, or as required

The service sector comprises over three-quarters of the US economy, and is continually increasing its dominance. Some estimates suggest that 90% of all new jobs are service positions. Traditionally, marketers have focused on the 4 P's, making marketing mix decisions for products that are finished when they exit a production line. However, service marketers must deal with a broader range of issues, addressed in this course, including design of the service production process, recruitment and training of service providers, and relationship marketing for customer retention.

PreRequisites: AM/MKT 221

MKT 431
Contemporary Topics in Marketing
3 credit hours
Spring, or as required

As the signature course in the Marketing Program, this is a seminar on issues currently drawing attention in the marketing literature and the business community that affect marketing management. Ethical considerations are explored that affect marketing policy-making. Through additional case analysis some of the worst marketing blunders and mistakes in history are examined and evaluated.

PreRequisites: AM/MKT 221 & senior status

MKT 435
Retail Marketing & Management
3 credit hours
Spring, or as required

Retail marketing examines the set of business activities that adds value to the products and services sold to consumers for their personal or family use. Topics include: store-based retailing, electronic and non-store retailing forms, merchandising, retail pricing, store layout and management, site selection, and retail market strategies.

PreRequisites: MKT/AM 221

MKT 446
Sales Management
3 credit hours
As required

The role of sales managers is examined in this combination theory and skills course. Various specialized managerial functions are studied such as sales department budgeting, sales force organization, territory design, sales forecasting, sales compensation, performance evaluation, sales training, sales personnel recruitment, and sales force motivation.

PreRequisites: MKT/AM 221 and MKT 316

MKT 451
Marketing Internship
3 credit hours
As required

A field experience in a customer service, sales, advertising, retail, or marketing support position, supervised by a field practitioner as well as college faculty. The internship is designed to increase understanding of the various functional areas that comprise the field of marketing.

PreRequisites: MKT/AM 221, junior or senior status, and permission of department chairperson

MLE 200
English Language Learners in the Multicultural Classroom
3 credit hours
As required

This course introduces the most important principles and practices for teachers of children with home languages other than English. Students examine the implications of cultural and linguistic variation for English Language learners. We focus on how educators work in the classroom, the school, and the community to support these learners' language development and academic learning.

MLE 205
Structures of English
3 credit hours
As required

This course introduces the major structural elements of English for students intending to teach English as a Second Language. Students engage in systematic description and discussion of the phonetic, morphological, syntactic, semantic, and pragmatic systems of English. We investigate issues of dialect variation, prescriptive rules, and literacy development. Practical applications include analysis of ELLs' writing and speech samples.

MLE 210
Language Learning and Instruction
3 credit hours
As required

This course introduces the nature of language competence and the processes of first and second language development. A survey of the major theories of language learning leads to the evaluation of language and literacy practices in classroom instruction for second language learners. Important factors in language learning are identified and discussed, including linguistic knowledge, social interaction, the learning context, motivation, and age.

MLE 302
Methods of Teaching and Evaluating ESL
3 credit hours
As required

This course provides a comprehensive introduction to classroom instruction and assessment for ESL students. Students practice applying principles of language learning to the observation, analysis, selection, creation, and organization of classroom activities. A variety of techniques and strategies are explored, with emphasis on current proficiency-based approaches for learners who need English for social, academic, and socio-cultural purposes.

MLE 305
Curriculum and Materials Development for TESOL
3 credit hours
As required

This course focuses on the application of principles and practices for teaching English Language Learners in the context of the curriculum, the program and the school community. Students select and design resources for an instructional unit that integrates English language skills with academic content learning. We investigate strategies and tools for placing and monitoring students, working with ESL students with special needs, and collaborating with school staff and parents, in order to further the language, cognitive, and social development of ELLs.

PreRequisites: MLE 200, MLE 205, MLE 210

MLE 315
Field Experience and Seminar in TESOL
3 credit hours
As required

This course uses a reflective model of teacher education to build practical knowledge about classroom instruction, evaluation, and school support services. Students participate in observation, interviews, and hands-on activities related to planning, carrying out lessons, and evaluating students. A developmental portfolio helps students connect theory and practice through reflection.

PreRequisites: MLE 200, MLE 205, MLE 210, MLE 305

MT 110
College Algebra
3 credit hours
Fall/Spring/Summer

A traditional study of pre-calculus mathematics with emphasis on functions and relations. Includes a review of linear and quadratic equations, rational expressions, exponents, radicals and logarithms. Polynomial, exponential, and logarithmic functions are presented together with the conic sections, systems of equations, determinants, the binomial theorem and mathematical induction.

MT 123
Trigonometry
3 credit hours
Spring (as required)

A traditional course in trigonometry including circular measure, trigonometric ratios, the trigonometry of right and obtuse triangles with applications, trigonometric functions and their graphs, inverse trigonometric functions, identities, and trigonometric equations.

PreRequisites: MT 110(A)

MT 130
Calculus for Business, Economics, and Managerial Sciences
3 credit hours
Fall/ Spring/ Summer

A one-semester course in the differential and integral calculus of functions of a single variable. Emphasis on concepts and the skills of differentiation and integration with applications from Administration, Economics and Managerial Sciences.

PreRequisites: Two years of secondary school algebra or MT 110(A)

MT 132
Analytic Geometry and Calculus I
3 credit hours
Fall/Spring

The first semester of a three-semester integrated course in the elements of analytic geometry and differential and integral calculus. Included are the concept and applications of the derivative of a function of a single variable, differentiation of polynomials and the trigonometric functions, the chain, product and quotient rules, implicit differentiation, and differentials. Concludes with anti-differentiation, integration, area under graphs of functions and applications.

PreRequisites: MT 123 or MT 129 or through placement testing Coreq: MT 132R

MT 132R
Analytic Geometry & Calculus I-Recitation
1 credit hour
Fall/Spring/Summer

The mandatory recitation section of MT132 Analytical Geometry and Calculus I for reviewing and expanding the concepts acquired in the lecture session. This session is often used to perform derivations or solve assigned problems. The grade of MT132R will be consolidated with the grade of MT132.

PreRequisites: Coreq: MT 132

MT 133
Analytic Geometry and Calculus II
3 credit hours
Spring/Summer

A continuation of MT 132 including applications of the definite integral, area, arc length, volumes and surface area, centroids, average value and theorem of the mean for definite integrals. Derivatives and integrals of transcendental functions are followed by techniques of integration, L'Hopital's Rule and indeterminate forms and improper integrals. Also included are conic sections and polar coordinates.

PreRequisites: MT 132 and MT 132R

MT 133R
Analytic Geometry & Calculus II-Recitation
1 credit hour
Fall/Spring/Summer

The mandatory recitation section of MT133 Analytical Geometry and Calculus I for reviewing and expanding the concepts acquired in the lecture session. This session is often used to perform derivations or solve assigned problems. The grade of MT133R will be consolidated with the grade of MT133.

PreRequisites: Coreq: MT 133

MT 140
Probability and Statistics
3 credit hours
Fall/Spring/Summer

The study of the fundamentals of probability theory with applications to natural and social sciences as well as to mathematics. Discrete and continuous distributions, sampling theory, linear correlation, regression, statistical inference, estimation and analysis of variance are included.

PreRequisites: Two years of secondary school algebra or MT 110(A)

MT 230
Analytic Geometry & Calculus III
4 credit hours
Fall

A continuation of MT 133 including a study of vectors, parametric equations, solid analytic geometry and functions of several variables. Includes partial differentiation, total differentials, multiple integrals and surface and line integrals, the theorems of Gauss and Stokes, and infinite series.

PreRequisites: MT 133 Coreq: MT 230R

MT 230R
Analytic Geometry & Calculus III-Recitation
1 credit hour
Fall/Spring/Summer

The mandatory recitation section of MT230 Analytical Geometry and Calculus I for reviewing and expanding the concepts acquired in the lecture session. This session is often used to perform derivations or solve assigned problems. The grade of MT230R will be consolidated with the grade of MT230.

PreRequisites: Coreq: MT 230

MT 231
Ordinary Differential Equations
3 credit hours
Spring

A study of first and second order differential equations, infinite series, Laplace transforms and power series together with existence of solution and uniqueness theorems.

PreRequisites: MT 230, MT 230R

MT 250
Discrete Structures I
3 credit hours
As required

A basic course dealing with mathematics applicable to computer science. It provides an introduction to mathematical methods and covers such topics as: enumeration, set theory, mathematical logic, proof techniques, number systems, functions and relations, graphs and digraphs, trees, combinatorics, basic algebraic structures, recurrence relations, Boolean algebra, and analysis of algorithms. Cross listed with CS 215

PreRequisites: MT 133

MT 251
Discrete Structures II
3 credit hours
As required

A continuation of MT 114. Topics to be covered will include some or all of the following: integers and integers Mod n ; counting techniques, combinatorics, and discrete probability; graphs, trees, and relations; Boolean algebras; and models of computation such as grammars, finite-state machines, and Turing machines. Cross listed with CS 216

PreRequisites: MT 250 or CS 215

MT 315
Linear Algebra
3 credit hours
Spring (odd years)

A development of the theory of vector spaces from linear equations, matrices and determinants. Topics include linear independence, bases, dimensions, linear mappings, orthogonal reduction, diagonalization of matrices using eigenvectors and eigenvalues.

PreRequisites: MT 230 and MT 230R

MT 335
Complex Analysis
3 credit hours
Spring (odd years)

A course focusing on the calculus of complex numbers. Topics covered include complex numbers and functions, differentiation and integration with complex variables, complex series, conformal representation and the calculus of residues.

PreRequisites: MT 231

MT 340
Probability and Statistics I
3 credit hours
Fall (odd years)

A calculus-based first course in probability and statistics for science and honors students. Various discrete and continuous probability distributions will be examined including the binomial, multinomial, Poisson, uniform, exponential, gamma and normal distributions. Mathematical expectation, moment generating functions, linear combinations of random variables, sampling distributions, point estimation, confidence intervals, hypothesis testing, analysis of variance, regression, correlation and the method of least squares will also be examined.

PreRequisites: MT 230 and MT 230R

MT 345
Probability and Statistics II
3 credit hours
Spring (even years)

A detailed study of topics in statistics: comparison of classical and Bayesian methods in conditional probability and estimation of parametrics, non-linear regression, multiple, partial and rank correlation, indices, time series, analyses of variance for two-way classification with and without interaction, design of experiments, reliability and validity of measurements and non-parametric tests.

PreRequisites: MT 340

MT 403
History of Mathematics
3 credit hours
Fall (even years)

A survey course in the development of modern mathematics. Beginning with the rudimentary mathematical concepts developed in prehistoric times, mathematics grew sometimes slowly and sometimes rapidly with the insights of various cultures. In this course we trace this development through ancient Mesopotamia and Egypt, classical Greece, Arabic and Hindu cultures of the Dark and Middle Ages, the European Renaissance and on into the modern times. Special attention will be paid to major developments such as the emergence of mathematics as an organized, reasoned and independent discipline in Classical Greece; the emergence and development of major areas of mathematics such as of algebra, trigonometry, productive geometry, calculus, analytic geometry infinite series, non-Euclidean geometry; and how developments in mathematical thought have shaped the modern world.

PreRequisites: MT 231

MT 415
Modern Abstract Algebra
3 credit hours
Spring (even years)

An introduction to algebraic concepts such as groups, rings, integral domains and fields. The elementary number systems occupy a central place. Mappings, especially homomorphisms, are introduced early and emphasized through out the course.

PreRequisites: MT 231

MT 420
Geometry
3 credit hours
Fall (even years)

An overview of geometry in the light of modern trends with attention to axiomatic structure, including an introduction to hyperbolic and elliptic figures as geometric structures together with an overview of projective geometry.

PreRequisites: MT 231

MT 435
Real Analysis
3 credit hours
Fall (odd years)

An introductory to classical (real) analysis. Includes a rigorous treatment of logic, set theory, functions, countable and uncountable sets, the real number system, metric spaces, sequences, series, differentiation and integration.

PreRequisites: MT 231

MT 460
Numerical Mathematics I
3 credit hours
As required

A survey of numerical techniques for numerically solving a variety of mathematical problems with an emphasis on application as opposed to theory. Topics to be covered include: sources of error in numerical computations, solving nonlinear equations, solving sets of simultaneous equations, interpolating polynomials, numerical integration and numerical differentiation.

PreRequisites: CS 210, MT 315

MT 490
Junior-Senior Seminar in Mathematics
1 credit hour
As required

PreRequisites: Junior or senior status in the MT major

NAD 500
Health Care Finance
3 credit hours
Spring

This course is designed to provide the student with an overview of the health care environment and the financing of the health care system. An emphasis will be placed on financial techniques, such as cost estimation and forecasting, break-even analysis, variance analysis, and capital budgeting. Overview of hospital-based care using inpatient tools to predict cost and measure performance as well as managing long-term care resources will also be discussed. Content will enable the student to develop the knowledge and skills necessary for effective participation in financial management related to strategic planning, program budget planning and control as it relates to traditional and non-traditional health care systems.

NAD 517
Nursing Administration I: Theory, Concepts & Principles
3 credit hours
Spring

This course is designed to provide the student with knowledge of organizational and management theories and processes in relation to the planning continuum, practice and institutional environments, human and financial resource management and accreditation standards as they relate to traditional and nontraditional health care systems.

NAD 520
Nursing Administration II
3 credit hours
Fall

This course is designed to provide the student with the opportunity to apply management principles and processes required of nurse administrators. Current issues and trends in clinical specialty areas will be identified, discussed and analyzed in relation to their impact on the management of a health care setting.

NAD 525
Nursing Administration II: Seminar & Practicum
3 credit hours
Fall

This practicum experience is designed to provide the student with the opportunity to integrate theory in a context of the nurse administrator's role. Emphasis is placed on the roles and functions performed by the nurse in an administrative role. During the 135 hour practicum, the student will be assigned to a nursing administrator who will assume the role of preceptor. Opportunities are provided to participate in a nursing administrative role. Students will interact with a variety of health care managers and professionals as well as participate in management, leadership, and teaching roles of the nurse administrator.

NAD 600
Nursing Administration III
3 credit hours
Spring

This course is designed to provide the student with knowledge of the administrative issues that impact the delivery of nursing care within the context of the traditional and non-traditional health care systems. Topics such as third party payment, health policy, change management, quality improvement, resource competition and allocation in culturally diverse environments are included.

NAD 625
Nursing Administration III: Seminar & Practicum
3 credit hours
Spring

This practicum experience is designed to provide the student with the opportunity to integrate theory in a reality context of the administrator's role. This course requires 135 hours of clinical practicum, where the student will be assigned to a nursing administrator who will assume the role of preceptor. Opportunities are provided to participate in the executive role in different administrative settings. The student will have the opportunity to interact with a variety of health care managers and professionals. This is a continuation of the practicum experience initiated in Nursing Administration II Seminar and Practicum.

NED 500
Assessment, Measurement & Evaluation of Learners
3 credit hours
Spring

This course is designed to introduce the student to processes of assessment, measurement and evaluation for the classroom and clinical teacher. Test planning, construction and use of a variety of types of test items, item analysis for test improvement, methods of summarizing test scores, derived scores for interpretation of performance, development and use of norms in evaluation will be explored. In addition, the design and use of clinical assessment tools will be presented. The importance of timely, constructive formative evaluation of learners is emphasized as is the important of constructive self and peer evaluation.

NED 502
Teaching & Learning: Strategies for the Classroom and Clinical Nursing Education
3 credit hours
Spring

The course is designed to prepare the student to facilitate learning in classroom and clinical setting. Through analysis of educational theory, principles and evidenced-based practices, the learner will apply a variety of teaching strategies appropriate for content, setting, learner needs, learning style and learning outcomes. The use of information technologies to support the teaching-learning process is also explored.

NED 504
Curriculum Design I: Development of Curriculum
3 credit hours
Fall

This course is designed to provide the student with the opportunity to participate in the process of curriculum design that reflects the institutional mission and philosophy; nursing, societal, and health care trends; educational principles, theory, research and technology. The learner will develop program outcomes, course descriptions and outcomes, and select appropriate learning activities. In addition, the role of the nurse educator in maintaining community and clinical partnerships to support educational goals will be discussed.

NED 506
Curriculum Design II: Evaluation & Revision of Curriculum
3 credit hours
Fall

The course is designed to prepare the student to evaluate and revise curriculum based on institutional mission, philosophy, outcomes, learner needs, societal and health care trends and feedback from learners, agency personnel and accrediting agencies. Change theories and strategies to facilitate revision will be discussed.

NED 508
Nursing Education Teaching Practicum
3 credit hours
Spring

This course is designed to provide the student with the opportunity to integrate nursing education theory to the educational environment. The student will be mentored by a nurse educator with knowledge and expertise in the educational role. Focus of this practicum will be on implementation of the teaching role.

NS 101
The Natural Sciences
3 credit hours
As required

An introduction to the basic concepts of biology, chemistry and physics, which stresses practical applications. Topics include survey of the fundamental concepts of atoms and molecules as the basic building blocks of matter, an overview of the life sciences with an emphasis on human biology and a discussion of the principles underlying common physical phenomena. Open to non-science majors. Core Course.

NS 110
Nutrition
3 credit hours
As required

This course covers the basic elements of nutrition and its relationship to health. It teaches students essentials of adequate diet and the nutritional needs of various members of the family. Core Course.

NS 125
Normal and Clinical Nutrition
3 credit hours
As required

This course covers the fundamental principles of nutrition and their relationship to health. The role of diet in the prevention and treatment of representative pathophysiological conditions will be examined. This course is designed for students majoring in Nursing or interested in careers in the Health Sciences.

NS 205
Kinesiology
3 credit hours
As required

The student will study the skeletal and muscular systems of the body in depth, as well as analyze their interrelationship to one another. The interrelationship of nerves to muscle and bone movement will also be investigated. Analysis of movement is an important component. The interrelationships of one part of the body to another will be investigated. Applications will be made to athletic ability and dance technique.

PreRequisites: BL 102

NSC 211
Intelligence Analysis and Presentation Techniques
3 credit hours
Spring

This course examines the process used by analysts to develop strategic intelligence. Students will participate throughout the course as a member of a group tasked to complete an estimative project. Students will learn to apply strategic theory to critical national security problems. Cross-listed with CRIM 211

NSC 310
Business Intelligence
3 credit hours
Fall (odd years)

This course explores the methods used to obtain and analyze data to create information that businesses can utilize in making decisions. An emphasis is placed on using public source information to meet the objectives of practical exercise scenarios.

NSC 311
Research Methods
3 credit hours
As required

This course examines the research methods and presentation techniques utilized by intelligence analysts. The student will be immersed in the world of Open Source Intelligence and will be taught to use relevant analytical tools in the form of open source search techniques and Intellipedia software. Students will function as members of an intelligence cell where they will use analytical tools to create both team and individual intelligence reports focused on selected criminal and terrorist organizations. Each student in this course will, as a final exercise, be responsible for producing an intelligence product and presenting a PowerPoint-based briefing to a panel of experts drawn from the Intelligence Community.

NSC 315
Financial Investigation and Analysis
3 credit hours
As required

This course requires the student to understand the basic techniques used to investigate crimes involving financial fraud and money laundering. Students will learn how to obtain and analyze various types of financial records in order to identify illegal transactions.

NSC 405
National Security & Intelligence: Senior Seminar
3 credit hours
As required

This course is the capstone course required of all national security studies majors. Senior students will engage in an in-depth study of both the historical and current national security policies of the United States and selected foreign countries. Students are expected to possess excellent research and writing skills to be successful in this course. They are required to write and orally present several short white papers dealing with critical issues in the areas of national security and intelligence. The students' knowledge base is evaluated during this course through the use of a comprehensive examination that encompasses the six national security major required courses. The course culminates with an extensive white paper and oral presentation concerning a current national security policy of the United States or a foreign country if the policy impacts the security posture of the United States.

PreRequisites: NSC 311

NSC 412
Emergency Preparedness and Crisis Management
3 credit hours
Spring (even years)

This course examines the issues and processes associated with the most critical domains of security management. In particular, the course will focus on risk analysis, security surveys, response planning, and the principles of "all hazards" risk management.

NSC 451
Internship
3 credit hours
Fall/Spring/Summer

This course requires that a student complete a period of employment (minimum of 60 days) as an analyst or investigative assistant with a government or non-governmental agency or corporation. The employer must agree to provide department-approved experiences and performance objectives for the student. Internship is unpaid; co-op is paid.

NSC 457
Independent Study / Honors Project
3 credit hours
As required

Students will fulfill requirements of faculty approved, departmental honors presentation with guidance and limited instruction from faculty. Only one NSC independent study is permitted.

NSG 218
Community Health Nursing
4 credit hours
Fall

This course is designed to introduce the student to concepts basic to community health nursing and the application of the nursing process to care of clients/families in community settings. Emphasis is placed on levels of prevention, health promotion/education, the Healthy People 2010 National Health Objectives, and Healthy Pennsylvania. During clinical experiences, the student will have the opportunity to utilize and apply theoretical knowledge and develop skills in caring for clients/families in community settings.

PreRequisites: NSG 210

NSG 100
Introduction to Nursing
3 credit hours
Fall

This course is designed to provide an introduction to the conceptual framework for the ASN program and to the profession of nursing. Concepts related to the individual, families, groups, environment, health, illness, stress, adaptation and caring are explored. Critical thinking and the nursing process are explored as a problem solving approach for the practice of nursing. The importance of sociocultural customs in appropriate assessment and care planning is explored.

PreRequisites: BL 115, BL 115L

NSG 105
Foundations of Clinical Nursing
3 credit hours
Fall

This course is designed to provide knowledge and skills necessary for the safe provision of basic therapeutic interventions for patients throughout the lifespan within the context of the nursing process. The student will develop beginning competence in performing basic nursing and physical assessment skills in the laboratory classroom. Opportunity for the student to apply knowledge from Introduction to Nursing as well as basic nursing and physical assessment skills with adult clients and their families will occur in the clinical component of this course.

PreRequisites: BL 123, BL 115, BL 115L, NSG 100

NSG 200
Medical-Surgical Nursing of the Adult
6 credit hours
Spring

The focus of this course is the application of the nursing process to address adaptation to actual or potential health problems of the adult and their families with selected acute and chronic illnesses. Health promotion and disease prevention for young, middle-aged and older adults are also explored. Skills related to the safe administration of medications, intravenous fluids, and medical-surgical procedures will be practiced in the clinical laboratory and assessment skills will be further developed. The student will be guided in the application of knowledge and skills in the acute care setting with adult and elderly patients/families.

PreRequisites: BL 123, BL 115, BL 115L, NSG 100, NSG 105.

NSG 210
Mental Health Nursing
4 credit hours
Summer

This course is designed to explore the mental health-mental illness continuum across the lifespan. Through application of the nursing process, the student will be guided to apply principles from biological and behavioral sciences and nursing knowledge to assist the patient and family to adapt to stressors causing disruptions in mental health and mental health disorders. Health promotion and disease prevention related to mental health will also be investigated, as will sociocultural perspectives. The student will be provided with the opportunity to apply knowledge and skills from the classroom to the care of patients in the clinical setting.

PreRequisites: NSG 200

NSG 212
Childbearing and Women's Health Nursing
4 credit hours
Fall

This course is designed to explore the role of the nurse in family-centered care of the childbearing family before, during, and after birth. Concepts and issues related to health promotion, disease prevention and illness care of women throughout the lifespan will also be addressed. Application of the nursing process in promoting adaptation will be emphasized. The student will have the opportunity to translate knowledge and skills from the classroom to the clinical setting.

PreRequisites: NSG 218

NSG 215
Nursing of Children
4 credit hours
Fall

This course is designed to provide the student with knowledge of the role of the nurse in health promotion of children and families during illness. Utilization of the Nursing Process and the caring role of the nurse in promoting adaptation will be emphasized.

PreRequisites: NSG 212

NSG 220
Principles of Pharmacology
2 credit hours
Fall/Spring

Basic concepts of pharmacology will be introduced, including the pharmacodynamics and pharmacokinetics of drug therapy. Selected drug classifications will be studied with respect to physiologic actions, uses, adverse reactions, and side effects. The role of the health professional in pharmacotherapeutics will be discussed.

PreRequisites: One semester of Chemistry and BL 124

NSG 225
High Acuity Nursing
6 credit hours
Spring

This course is designed to provide the student with the advanced knowledge and skills required to care for patients and families experiencing complex and catastrophic stressors and complex acute nursing process to provide safe, effective nursing care for patients as they adapt to these stressors. Application of the caring approach based on psychophysical and sociocultural concerns of clients and families is stressed. Precepted practice in critical care settings and acute care settings will provide the student with opportunities to translate knowledge and skills from the classroom setting to care of patients and families with these complex illnesses.

PreRequisites: NSG 215

NSG 230
Nursing Leadership
3 credit hours
Spring

This course is designed to introduce the student to the leadership role of the nurse in the provision of nursing care. Principles of management including delegation and legal aspects of management will be explored. The importance of appropriate and ethical use of resources and the sociopolitical issues related to health care and nursing are emphasized. The role of the nursing process in providing care for a group of patients is also explored. The changing dimensions of nursing as a profession and the commitment of the individual nurse to the advancement of nursing are investigated. Clinical experience will afford the student the opportunity to link the concepts with practice and is carried out under the direct supervision of a preceptor and through the guidance of course faculty.

PreRequisites: NSG 215

NSG 320
Health Assessment in Nursing Practice
3 credit hours
Fall

This course focuses on health assessment, health promotion, and disease prevention for major health concerns of individuals throughout the life span. Emphasis will be placed on refining the registered nurse's ability to develop an in-depth health history and health risk profile and to perform physical assessment of clients of varying ages. Evidence-based screening tests for early detection of disease, immunizations and prophylaxis to prevent disease and counseling to modify risk factors that lead to disease will be explored.

NSG 321
Leadership in Nursing
3 credit hours
Fall

This course is designed to provide students an opportunity to enhance their leadership skills. The principles of leadership and management which enable the registered nurse to assume a more advanced leadership role will be examined. Effective leadership for the current less structured yet increasingly complex health care environment will be explored. Personal, professional, legal and ethical values in professional nursing practice will be examined. Nursing research will be related to the leadership role.

NSG 322
Health Teaching
3 credit hours
Fall

In this course, students will be guided in appropriating knowledge foundational to health teaching. They will interrogate the concept of health, theories of teaching-learning and the connection among health beliefs, the nurse-family interrelationship and patterns of health practice. They will be invited to apply foundational knowledge to health teaching within institutional guidelines and changing health care environments. They will explore legal and ethical implications inherent in health teaching. Students will be guided in proposing implications for nursing research and practice in health teaching.

NSG 323
Nursing Research I
3 credit hours
Spring

This course is designed to explore the nature, value, and utility of nursing research. An overview of the process by which research is conceived and conducted is presented, with emphasis on varying approaches and methodologies, conceptual consistency, and ethical considerations. Critical appraisal of published research affords the student the opportunity to become a more discriminating consumer of research and a better-informed participant in the research process. The relationships among research, theory, and practice are presented and linked to the student's arena of practice. Core Course.

NSG 324
Nursing During Acute Illness
3 credit hours
As required

The focus of this course is on the health care needs of acutely ill individuals. Emphasis will be on nursing interventions to assist individuals and families as they respond to acute illness. Nursing care necessary for stabilization, health restoration and rehabilitation will also be examined. Issues of significance to acutely ill individuals and their families will be explored.

NSG 325
Nursing of the Adolescent
3 credit hours
As required

This course will provide the student with knowledge of the physical, emotional, intellectual and social health care dimensions of the adolescent in our society. The focus will be on the adolescent's developing health care needs and the role of the community, school or pediatric nurse who works with and cares for adolescents. Nursing interventions to promote health and prevent illness, including restorative and rehabilitative processes, will be examined.

NSG 327
Mental Health Nursing
3 credit hours
As required

This course is designed to examine the role of the nurse in care of individuals with common mental health disorders in primary care settings. The concepts of mental health and mental illness will be explored from the neurobiological, personal, interpersonal and societal perspective. Current mental health care policies and initiatives and related nursing research will also be explored.

NSG 328
Overview of Gerontological Nursing
3 credit hours
As required

This course is designed to offer students the opportunity to interrogate issues that interface with the expanding specialty of gerontological nursing and selected nursing models. Students will have the opportunity to apply knowledge in the implementation of nursing intervention with older persons in a variety of nursing practice settings.

NSG 410
Foundations of Forensic Nursing
4 credit hours
As required

This course is designed to explore the unique roles and responsibilities of the forensic nurse in the care of victims of violence. The scientific investigation, evidence collection and preservation, and prevention and treatment of trauma will be explored from the perspective of the forensic nurse. It includes 30 hours of clinical examining the role of the forensic nurse in the setting of the student's choosing.

PreRequisites: CRIM 101, CRIM 340, may be taken as a prereq or coreq

NSG 412
Introduction to Nursing Informatics
3 credit hours
As required

This elective nursing course is designed to provide the BSN student with entry-level health care informatics concepts. It is assumed that students will have completed IST105 or have equivalent experience with computer and information literacy. The course introduces the student to the nursing and healthcare informatics field. Included is a brief history and evolution of health care technology, selected concepts, theories and models related to healthcare information systems, current systems and their uses, and trends and future directions of nursing and healthcare system. Knowledge and skill in information processing and data management, professional roles and responsibilities of an informatics nurse as a project team member, and systems design model will also be introduced.

NSG 420
Current Issues in Nursing
3 credit hours
Spring

This course is designed to examine selected issues in nursing and health care with a focus on contemporary situations. Students will be provided the opportunity to identify nursing practice issues and suggest strategies to address them. Principles and techniques of developing a logically constructed argument reflecting a particular viewpoint about a selected issue will be presented.

NSG 421
Community Nursing I
4 credit hours
Fall/Spring

This course is designed to expand the students' knowledge of nursing by acquainting them with concepts and principles of public health and community health nursing. Students will utilize their knowledge and understanding of nursing, humanities, natural and applied sciences with community nursing skills to provide care for individuals and families in a variety of community health care systems. The course focuses on levels of prevention, health promotion and disease prevention, and ethical and legal issues in community health nursing practice and the right of families to make decisions about health care. Students will examine the differences, which may exist in the cultural, social and religious differences between the nurse and client and the impact of this on community health nursing practice.

NSG 423
Nursing Research II
3 credit hours
As required

This course is designed to provide the opportunity for continued investigation into the role of research in nursing practice. Through a variety of research activities students will be invited to apply the concepts of research and the research process that were presented in Nursing Research I to an independent exploration of a selected area of interest in nursing.

NSG 424
Healing in Nursing Practice
3 credit hours
As required

This course is a nursing elective in which students will have an opportunity to focus on the philosophical and theoretical foundations of healing within the context of nursing practice. Students will examine ways of healing in nursing such as: guided imagery, relaxation response, music, biofeedback, and acupuncture. In addition, students have an opportunity to learn the theory and practice of therapeutic touch as a unique healing modality. Students will derive implications for nursing research and evaluate recent research related to healing.

NSG 426
Legal Aspects of Nursing Practice
3 credit hours
As required

This course is designed to examine the relationship among the legal rights, responsibilities, and obligations of the practicing professional nurse in today's complex and changing health care delivery environments and systems. The implications for legal and ethical decision making will be applied to a variety of situations within institutional and community settings.

NSG 427
Health Care for Women
3 credit hours
As required

In this course students will have the opportunity to explore the historical and contemporary health experiences of women with an emphasis on their current health care needs. They will review the changing role of women in society, the women's movement, and feminism as factors which have influenced women's health care and professional nursing practice.

NSG 429
Community Nursing II
3 credit hours
As required

This course is designed to provide the student with the expanded opportunity to apply the principles of community health nursing to the health needs of a community. The health status of a community is assessed and the community health needs and the potential of the community to meet the needs is identified. Political, economic and environmental factors and their influence on health and the delivery of health care are reviewed and analyzed. Focus is on disease prevention and health promotion, education and maintenance.

NSG 430
Child Health & the School Nurse
4 credit hours
Spring

This course is designed to explore the scope and responsibilities of the school nurse in planning, implementing and evaluating school health for children K-12. The focus will be on health promotion and maintenance at all levels of the child's development, and will encompass healthy and challenged children. The unique role of the school nurse in caring for children and in collaborating with parents and members of the school education team will be emphasized.

PreRequisites: This course is available only to students accepted into the School Nurse Certificate Program

NSG 432
Nursing Practice with the Fatally Ill
3 credit hours
As required

This course is designed to offer students the opportunity to interrogate the concepts of fatal illness as they are lived in the practice of professional nursing. Fatal illness will be explored within the context of death as a natural process of living and the odyssey of modern dying structures. Students will be guided in coming to understand the myriad profiles of grief and bereavement as they explore the faces of loss, the changing nature of hope and the work of grief. Ethical and legal issues in the dying process and preparedness for death will be examined. Students will be guided to explore dimensions of professional nursing practice with fatally ill persons and their families.

NSG 436
Family Health Nursing
3 credit hours
As required

This course is designed to assist the nurse in provision of nursing care to patients and their families. The focus is on the knowledge base needed to care for, promote health and prevent illness of families and on the role of the nurse in assisting families as they adapt to changes in health and illness. Students will explore their own attitudes about caring for families. Students will apply the knowledge to various issues encountered in working with and caring for families.

NSG 437
Health Care for Men
3 credit hours
As required

In this course students will have the opportunity to explore the historical and contemporary health experiences of men with an emphasis on their current health care needs in regard to conditions and/or diseases that are unique to men. It will provide information about risk factors for different ages and populations for various health issues and diseases related exclusively to men. Physical, mental, emotional, social and spiritual aspects of men's lives are explored, including family, community, society, institutions and the environment on the health of men.

PA 100-400
Repertoire and Production
1 credit hour each
As required

This course consists of learning, executing and performing the repertoire of the Dance Program.

PA 104-404
Ballet Techniques
1 credit hour each
Fall/Spring

This class is designed to develop the dancer's knowledge of ballet technique through the emphasis of style, musicality, sensitivity, and a love of dance. Placement will be determined by previous training and student potential as demonstrated in the audition. Students must complete a total of 24 credits in this course.

PA 105-405
Modern
6 credit hours
Fall/Spring

Modern

PA 108-408
Pointe
1 credit hour each
Fall/Spring

A study of the basic techniques of dancing on pointe. Correct pointe positions and exercises for strengthening of feet and legs will be emphasized. Execution of movements will lead to performance of variations from classical ballet and various other styles. Females must complete a total of 8 credits in this course.

PreRequisites: Ballet Techniques is a co-requisite

PA 110-410
Pas de Deux
1 credit hour
Fall/Spring

Pas de Deux

PA 112-412
Variations
1 credit hour
Fall/Spring

Students will learn creativity of dance movement involving free form. The techniques learned in Ballet and Pointe will be applied. Students must complete a total of 8 credits in this course.

PreRequisites: Ballet Technique

PA 122
Fundamentals of Music
3 credit hours
As required

A hands-on introduction to the language of music (notation, scales, melody, harmony, etc.) using recorders, percussion and listening examples from various musical genres. This class is built for the non-musician.

PA 210
Dance History I
3 credit hours
As required

An introductory history of the development of dance. Dance will be examined as a form of human expression. Forms of ritual as well as art forms will be analyzed. Ballet, modern and jazz will be emphasized from their beginnings through their evolution to contemporary choreographed styles.

PA 215
Dance History II
3 credits
Fall/Spring

An introductory history of the development of dance. Dance will be examined as a form of human expression. Forms of ritual as well as art forms will be analyzed. Ballet, modern and jazz will be emphasized from their beginnings through their evolution to contemporary choreographed styles.

PA 218
Ethnic-Dunham
1 credit hour
Fall/Spring

Ethnic-Dunham

PA 236
Character
1 credit hour
Fall/Spring

PA 236

PA 315
Dance Pedagogy I
3 credit hours
As required

This course is designed to introduce students to the teaching of dance. The students' teaching goals will depend on the individual level of achievement from previous training, their degree of talent, and their motivation. The course aims to develop teaching effectiveness in all major styles, including ballet, jazz, modern and character dance, to enrich students' knowledge of dance technique, and to offer a wide frame of reference for teaching today's dancer.

PreRequisites: Sophomore status

PA 330
Dance Composition
3 credit hours
As required

This course is designed to introduce students to choreography. As preparation for work as a professional choreographer, students will learn to stage dances for multiple purposes, including concert dance, musical theater, opera, etc. Students will study a variety of composing techniques and create solo and small studies using these techniques.

PA 350
Special Topics in Performing Arts-Pilates
1 credit hour
As required

Pilates emphasizes the balanced development of the body through core strength, flexibility, and awareness in order to support efficient, graceful movement. Pilates is about lengthening and strengthening your muscles, leading to increased strength and improved flexibility. Each exercise movement flows smoothly into the next, encouraging the body to learn and remember new ways of movement and being, a mind-body connection.

PA 430
Dance Composition II
3 credits
As required

This course is designed to introduce students to choreography. As preparation for work as a professional choreographer, students will learn to stage dances for multiple purposes, including concert dance, musical theater, opera, etc. Students will study a variety of composing techniques and create solo and small studies using these techniques.

PA 455
Senior Seminar in Performing Arts/Dance
3 credit hours
Fall/Spring

A course designed to be the capstone experience in the performing arts program. The student will gain career information. Audition and performance projects will be developed and critiqued. Students will be expected to choreograph a 15-minute production as an individual or group project.

PreRequisites: senior status

PH 120
Logic
3 credit hours
Fall

This course is designed to help the student understand the methods and principles necessary for correct reasoning. The correct use of reason is indispensable for written and spoken communication. The course deals with language and its uses, fallacies, propositions, syllogisms, inference, probability and scientific hypothesis.

PH 121
Introduction to Philosophy
3 credit hours
Fall/Spring

This is a survey course that presents the principal philosophical problems, questions, and systems. Consideration is given to representative schools of philosophy, especially the foundational teachings in Plato and Aristotle. The relationship of philosophy to other disciplines, arts and sciences is examined. Cross-listed with SELPHL-012

PH 122
Eastern Philosophy
3 credit hours
As required

An in-depth study of Eastern thought through its major structures in a historic setting, aimed at understanding its characteristic vision. Traditions such as Confucianism, Taoism, Hinduism, and Buddhism are discussed.

PH 222
History of Greek Philosophy
3 credit hours
As required

This course examines the rise and development of philosophy in ancient Greece. This includes the pre-Socratic philosophers in relationship to the birth of the science of nature, the Sophists and philosophy as rhetoric and skepticism, Plato and the ascent toward wisdom, Aristotle and the analysis of being.

PreRequisites: PH 121

PH 226
Ethics
3 credit hours
Fall/Spring

A survey of historical and contemporary responses to significant moral problems encountered in the Christian life. Topics include conscience, racism, peace and war, ecology, population control, economic justice and capital punishment. Cross-listed with SELPHL-013

PH 233
Mystery of God
3 credit hours
Fall

Can the existence of God be demonstrated? An examination is made of basic arguments for God's existence, the ontological, the cosmological, the teleological, the moral and the argument from religious experience. Cross-listed with RS 233

PreRequisites: PH 121 or permission of instructor

PH 327
Biomedical Ethics
3 credit hours
Fall

The course addresses significant ethical issues and controversies that occur in the health professions. Students are not encouraged to adopt any particular ethical position or view but rather gain an ability to review and analyze the reasons that support various norms and opinions in this field.

PreRequisites: PH 121 or PH 226 or permission of the instructor

PHY 110
Physics for Health Sciences
4 credit hours
Spring

This course is designed to provide a broad background in physics for those who will enter the allied health professions. Applications will be made to the biological and physiological sciences, as well as to the various types of equipment. Lecture and laboratory course.

PHY 132
Physics I
4 credit hours
Fall

This is the first of a three-semester introduction to calculus-based physics stressing experimental and problem-solving technique. Concepts covered are mechanics: kinematics, Newton's laws of motion, conservation laws, rotational motion, gravitation, oscillation, and wave/acoustics.

PreRequisites: Coreq: MT132

PHY 132L
Physics I Laboratory
0 credit hours
Fall

Laboratory for PHY 132

PreRequisites: coreq: PHY 132

PHY 133
Physics II
4 credit hours
Spring

This is the second of a three-semester introduction to calculus-based physics stressing experimental and problem-solving technique. Concepts covered are mechanics: kinetics, Newton's laws of motion, conservation laws, rotational motion, gravitation, oscillation, and wave/acoustics.

PreRequisites: PHY 132, Coreq: MT 133

PHY 133L
Physics II Laboratory
0 credit hours
Spring

Laboratory for PHY 133

PreRequisites: coreq: PHY 133

PHY 230
Physics III
4 credit hours
Fall (as required)

The third of a three-semester introduction to calculus-based physics. This course is devoted to the study of the two great theories that underlie almost all of modern physics, quantum theory and relativity theory. There is an emphasis on quantum mechanical description of semiconductor physics, which forms our modern electronics age (computers and electronic communication devices in general). A series of laboratory projects enables the student to retrace experimentally the development of modern physics.

PreRequisites: PHY 133, PHY 133L; Coreq: MT 230; Suggested Coreq: MT315

PHY 230L
Physics III Laboratory
0 credit hours
Fall (as required)

Laboratory for PHY 230

PreRequisites: PHY 132(L), PHY 133(L), coreq: PHY 230

PHY 280
Analog Electronics (Electronics I)
3 credit hours
As required

An introductory course of electronics. Students will learn the fundamental principles of electronics circuits while engaging in various laboratory projects using electronic components such as passive devices and integrated circuit chips. Topics to be studied include basic circuit theory, diode applications, Bipolar and Field Effect transistors, operational amplifiers, and basic TTL gates. This course will provide students with both theoretical and practical knowledge necessary to start understanding of computers and data communication devices.

PreRequisites: PHY133(L)

PHY 280L
Electronics I Laboratory
0 credit hours
As required

Laboratory for PHY 280

PreRequisites:

PHY 375
Computational Physics
3 credit hours
As required

This course will focus on analyzing problems of physics with numerical methods and simulation techniques. Various problems are selected from Classical Mechanics, Electromagnetism, Thermal/Statistical Physics, and Quantum Mechanics. It will provide students with additional computational skill and knowledge necessary for analyzing various models and simulations of physics and other disciplines.

PreRequisites: CS 110, PHY 230(L)

PHY 380
Digital Electronics (Electronics II)
3 credit hours
As required

This is an intermediate digital electronics and focuses on the study of computer architecture, and digital signal processing technology. It will provide students with the working knowledge necessary for understanding in computer science and telecommunication technologies. Students will learn practical digital circuits while conducting practical laboratory projects. Typical digital integrated circuits and digital/analog interface chips will be used for designing and constructing a prototype computer, interfaces, and digital signal processing circuits.

PreRequisites: PHY 280(L)

PHY 380L
Electronics II Laboratory
0 credit hours
As required

Laboratory for PHY 380

PreRequisites: coreq: PHY 380

PHY 382
Electronic Communication
3 credit hours
As required

This course will present the fundamental technology of wireless and cable telecommunications. Students will become familiar with modulation/demodulation and noise reduction for high-fidelity electronic and data communications. They will also learn advanced data communication technologies such as digital broadband technology. Transition from electronics (application of electrons) to photonics (application of lights and photons) is also presented. Hands-on laboratory projects will be conducted in connection with the basic hardware of telecommunication not covered in CS323 and CS326 (Electronics and Digital Electronics).

PreRequisites: PHY 280(L)

PHY 382L
Electronic Communication Laboratory
0 credit hours
As required

Laboratory for PHY 328

PreRequisites: coreq: PHY 328

PHY 475
Physics of Information Theory
3 credit hours
As required

This course will offer fundamental concepts of physics that forms information and computation theories. The first part of this course is an overview of information theory. The concept of entropy and negative entropy in Thermodynamics and Information will be discussed. Then, noise in electric communication will be treated as a stochastic process. The second part of this course is an introduction to quantum computation and information. Mathematical background of quantum mechanics will be overviewed for the theoretical background of quantum computation/information. Experimental feasibility will be also discussed with recent development. It will provide students with fundamental knowledge of classical and quantum computation/information.

PreRequisites: PHY 230(L)

PHY 480
Instrumentation Physics
3 credit hours
As required

In this course, students will learn how to design and construct test and measurement instruments. They will design, construct various hands-on apparatuses and conduct measurements with their own instruments in the laboratory session. Students will also learn basic knowledge of design and construction of computer-based data acquisition systems and virtual instruments, emphasizing the application of microelectronics for controlling processes and systems. The integration of microprocessors with sensors/actuators and the use of digital device interface are central to these applications. In addition, typical computer network application of laboratory will be overviewed.

PreRequisites: PHY 280

PHY 480L
Instrumentation Physics Laboratory
0 credit hours
As required

Laboratory for PHY 480

PreRequisites: coreq: PHY 480

PS 122
Introduction to American Government
3 credit hours
Every third year

This course introduces students to the major American political institutions, the way in which the houses of Congress function, and the presidency while also analyzing civil liberties, constitutional rights, the policy-making powers of Congress, economic inequality and social policy issues, the role of political parties, the electoral process, the political role of the media, and foreign policy debates.

PS 201
Global Politics
3 credit hours
Fall

This is an introductory course in the field of international relations, providing an overview of major theories and concepts of international relations and an historical background for contemporary world politics. Major topics include the contemporary international system, economic development, foreign policy behavior, international conflicts and international institutions. Cross-listed with IS 201

PS 205
Constitutional Law
3 credit hours
Spring (every third year)

This course will explore the difficulty in interpreting the meaning of constitutional language. The interpretive role of the U.S. Supreme Court will be studied through an examination of landmark constitutional decisions. The major schools of thought that guide interpretation will also be studied. Cross-listed with CRIM 205

PreRequisites: PS 115, PS 122

PS 245
Islam in the World
3 credit hours
As required

In this course, the basic beliefs of Islam are reviewed, along with a brief history of Islam's overall development and its impact on the world and on various civilizations in different global regions. Islam's internal sects are analyzed, and its political impact on current politics in the world is explored. The role of U.S. foreign policy in dealing with the recent rise of Islam is also analyzed. Cross-listed with HS/SOC 245.

PS 302
History of European Diplomacy
3 credit hours
As required

The internationally accepted style of diplomacy had its origins in Italy in the late 1400's. Emphasis is placed on the mechanisms of diplomacy as well as its use by European powers: classical diplomacy in the 19th century and the impact of that system on other areas of the globe. The decline of European style diplomacy in the World War/Cold War era is described. Cross-listed with HS 302

PS 303
International Political Economics
3 credit hours
As required

An overview of the major theories of international political economy. Topics include the increasingly important role of global factors in the American economy, the international financial environment, international trade relations and economic development. Cross-listed with IS 303

PS 315
History of Political Thought
3 credit hours
As required

In this course we inquire into the origins, evolution and development of political philosophies, focusing on the theories that have shaped Western political thought from ancient times to the present day. We read extensive excerpts from classic texts and analyze them in class, discussing key concepts in Western political thought such as liberty, justice, morality, political rights, and humanism. Students will also be asked to create their own political theories. Students will learn the genesis of political thought over the past 2,000 years, how to critically assess these theories, and how to create their own theories. Cross-listed with HS 315

PS 319
History & Politics of Africa
3 credit hours
As required

This course covers the key episodes in the history of Africa from pre-colonial times, through the colonial and post-colonial periods. We examine ancient kingdoms, pre-colonial economies, stateless societies, the slave trade, inter-cultural exchanges, ethnicity, empire-creation and state-building. British, French, Belgian, Dutch and Portuguese colonial systems in Africa are then analyzed. We proceed to look at the anti-colonial independence movements, attempts at economic development in post-colonial Africa, post-colonial state-building and political changes in present-day Africa.

PS 321
Comparative Government
3 credit hours
As required

This course focuses on the government, policies and politics of different nation-states around the world, and investigates the political science approaches to studying government and politics in different parts of the world. The focus is not only on forms of governments, but also the major political and social factors that affect political change in different world areas, the relationship between states and societies, and the comparative study of democratic and non-democratic nations. Cross-listed with IS 321

PS 322
Comparative Public Policy
3 credit hours
As required

In this course the process of policy-making is examined by comparatively examining different nation-states and the various ways that different countries in the world make policy decisions. We focus on particular policy issues such as governance (bureaucracy-building), environmental policy, water resource management, social policy, health care policy, military policy, elections management, economic policy, on refugee policy, on decentralization policy, and on rural/community leaders. We also investigate the impacts of various nations' policies regarding the lack of corruption, on the environment, on economic inequality, on peace and stability, on the environment, on economic inequality, on peace and stability, on the healthiness of the population, on democratic culture, on refugees, on local government autonomy, and on rural/community politics.

PS 323
Modern U.S. Diplomatic History
3 credit hours
As required

This course presents a study of the major developments in American diplomatic history. Special emphasis is placed on the years from World War II until the present. Major international developments and their effects on American diplomacy are discussed along with the impact of various presidents and the influence of the United Nations. The interrelation between foreign policy and domestic opinion is also examined. Cross-listed with HS/IS 323

PreRequisites: IS 101

PS 325
Development: Political, Social & Economic Issues
3 credit hours
As required

This course presents a study of the political, social, and economic realities of Latin America, Asia, and Africa. Emphasis is placed on ecological, racial, ethnic, and population problems, as well as on the legacy of colonialism, developmentalism, and dependency. Human rights and the special problems of women will also be addressed. Cross-listed with IS 325

PS 333
American Foreign Policy
3 credit hours
As required

The reasons behind the foreign policy decisions of the U.S. government in recent decades are examined; different theories are explored for explaining shifts and continuities in foreign policy decision-making. Contemporary challenges to American foreign policy, from Iraq and security threats to peace-making efforts in the Middle East, are analyzed. Cross-listed with IS 333

PS 336
History of American Political Values, Beliefs & Ideas
3 credit hours
As required

In this course we explore the central values, beliefs and ideas that have helped to both shape and reflect the changing history of the United States. Special attention is paid to how particularly important values and ideas reflected certain time periods in American history, and helped to make this country unique. America's values and beliefs evolved both from social changes and grassroots political movements as well as from its leaders and influential thinkers. Cross-listed with HS 336

PS 337
The American Presidency
3 credit hours
As required

In this course we compare and contrast different U.S. presidents through the history of the country, survey the strengths and weaknesses of different presidents, while analyzing the overall challenges to serving effectively as president. Particular attention is paid to recent presidents. The role of the electoral college is examined with regard to the complexities of campaigning for and successfully competing in U.S. presidential elections.

PS 339
Politics and Society
3 credit hours
As required

This course examines the origin, growth, and dynamics of social movements as forms of social protest and resistance against state and global injustices. Discussions include case studies of various social and political groups, non-government organizations, and liberation and revolutionary movements in the U.S. and throughout the world. Cross-listed with SOC 339

PS 340
Ethnic Conflict
3 credit hours
As required

In this course we examine why ethnic groups sometimes get along very well, but other times engage in conflict. We query: What are the political and social origins of ethnic conflicts in various parts of the world? Do ethnic conflicts differ in different world regions? What national and international policies encourage ethnic conflict? How can we encourage ethnic groups to pursue peaceful accommodations? Cross-listed with SOC 340

PS 341
Terrorism in the Modern Age
3 credit hours
As required

In this course we analyze the rise of "terrorism" as the principal tool of rebel groups in various parts of the world. We also examine terrorism as a tool of government-led attacks on civilian populations. One question is why terrorism has become increasingly common, both for rebels and states, in today's high-tech world. Another question is whether some types of rebels, and some types of states, are particularly prone to adopt the use of terror as a primary part of their strategy or policy. Why do they choose "terror" as their primary mode of operations? Finally, it is important to consider how governments around the world, and particularly the U.S., have responded to global threats from rebels who rely heavily on terror as a methodology of anti-American war-making or rebellion.

PS 345
History & Politics of the Middle East
3 credit hours
As required

This course explores the peoples and history of the Middle East, from ancient times, including a procession of impressive empires, until their eventual domination by the Ottomans and finally, by British Empire. We investigate the accommodation of the British to Middle Eastern kingships and the impact of colonial state-building. We proceed to examine the establishment of the state of Israel and the evolution of Palestinian-Israeli relations over past half a century. Cross-listed with HS 345

PS 351
Development in Southeast Asia
3 credit hours
As required

This course looks at the history of social, political and economic development of Southeast Asia, excluding Indochina, and focusing primarily on Indonesia, Malaysia, and the Philippines. It will discuss the contingent and dependent nature of development of these countries under the larger framework of global capitalism, and how such development affects the national historical experiences of these countries. Cross-listed with HS/SOC 351

PS 352
Experience of Modern War
3 credit hours
As required

In this course, the experience of modern war is analyzed as a contemporary political phenomenon with broad political implications for the understanding the relationship between national and international politics, on the one hand, and the actual experience of war, on the other. Contemporary and modern wars are studied from the perspective of the soldier in the field, as well as from the broader perspective of commander decision-making, generals' war strategies, and the global context of war-making. Also taken into account is the impact of war on the inhabitants of war-affected countries; on military veterans; and on the national political system of the countries involved in a war. Cross-listed with HS 352

PS 382
Social Movements & Resistance
3 credit hours
As required

This course examines the origin, growth, and dynamics of social movements as forms of social protest and resistance against state and global injustices. Discussions include case studies of various social and political groups, non-government organizations, and liberation and revolutionary movements in the U.S. and throughout the world. Cross-listed with SOC 382

PS 3XX
Political Science 300-level
3 credit hours
As required

Any Political Science 300-level

PS 400C
History & Politics of Italy
3 credit hours
As required

This course is set up as a reading and research course for students interested in particular aspects of Italian history, including art history and architectural history, as well as Italian politics. Students are required to write a semester-length research paper. The course is oriented toward, but not limited to, students traveling to Italy on the La Roche College Italy Travel program typically offered once annually. Cross-listed with HS 400C

PS/IS 325
Development: Political, Social, Economic Issues
3 credit hours
Every third year

The course presents a study of the political, social, and economic realities of Latin America, Asia, and Africa. Emphasis is placed on ecological, racial, ethnic, and population problems, as well as on the legacy of colonialism, developmentalism, and dependency. Human rights and the special problems of women will also be addressed.

PSY 121
Introduction to Psychology
3 credit hours
Fall/Spring/Summer

This survey course introduces all the major areas of psychology, from its origins in the fusing of medicine and biology with philosophical questions about the nature of the human mind through the emphasis on psychology as the science of behavior. Included are such diverse topics as: mental health, stress, and coping; consciousness, sleep and dreams; psychopathology and its various treatments, social psychology; emotion and motivation; memory; intelligence; language; hypnosis; types of learning; sensation and perception; and the relationship of the nervous system to thought, feelings and behaviors.

PSY 215
Health Psychology
3 credit hours
Fall (even years)

This course explores psychological applications involved in health and risk behaviors. The emphasis is placed on enhancement of health and the understanding and control of psychological processes that undermine health. Topics include examination of the psychology of stress, pain, illness and treatment, and addictive lifestyle behaviors of eating, drinking, and smoking.

PreRequisites: PSY 121

PSY 218
Human Sexuality
3 credit hours
Fall (odd years)

This course will explore the psychological influences on human sexuality including the psychodynamic, behaviorist, and social cognitive approaches. Developmental changes, adult sexuality, and contemporary issues will also be examined. The student will be exposed to research methodology involved in studying sexual behavior and attitudes.

PreRequisites: PSY 121

PSY 222
Child Development
3 credit hours
Fall/Spring

The psychological principles of human growth and development with emphasis on the relative roles of genetic and environmental factors are the foci of the course. The life span segment covered in this course is infancy to adolescence. Children's physical, cognitive, social and personality development are examined.

PreRequisites: PSY 121

PSY 233
The Exceptional Child
3 credit hours
Fall/Spring

A survey of the psychological development of youngsters with physical, social, cognitive and emotional deviations. Emphasis is placed on procedures leading to social and psychological adjustments.

PreRequisites: PSY 222

PSY 236
Psychology & Humor
3 credit hours
Spring (odd years)

Psychology and Humor introduces students to the content area and measurement and research issues on the topic of humor. Thematic use of material from the study of humor is used to illustrate many of the basic discipline areas of psychology, including understanding of theory, research methods, testing, personality, cognition, and development.

PreRequisites: PSY 121 or permission of the instructor

PSY 238
Psychology of Spirituality
3 credit hours
As required

In progress.

PSY 240
Adolescence Psychology
3 credit hours
Fall

Adolescence is studied from a developmental perspective. The course content begins with historical, cultural, and theoretical perspectives of adolescence and proceeds to cover adolescent development: physical, social, emotional, and personality. Family and peer relationships and the impact of schooling will also be studied. Identity formation and moral development will be discussed, as will psychological problems and disturbances relevant to the adolescent years.

PreRequisites: PSY 121

PSY 250
Special Topics
3 credit hours
As required

In progress.

PSY 261
Educational Psychology
3 credit hours
Fall/Spring

A study of psychology in education, individual differences, learning and teaching processes, evaluations of learning outcomes and educational and personal development of learners.

PreRequisites: PSY 121

PSY 311
Research Methods in Psychology
3 credit hours
Fall/Spring

This course examines the major experimental designs and methods of psychology. The student will be exposed to the nature of psychology as a science, evaluation of research design and conclusions, conducting of research, preparation of research papers and ethics in research in psychology. Required for Psychology majors and minors.

PreRequisites: PSY 121 and MT140

PSY 320
Death & Dying
3 credit hours
Spring

This course is topical overview of some of the diverse areas of inquiry grouped under the general heading "death and dying." The basic purpose of this course is to help students understand grief, loss, dying, and death-both as an objective fact and as it relates to their own personal experiences-and to apply this understanding their common experiences. The social, cultural, spiritual, emotional, and intellectual dimensions of death and dying will be examined from an interdisciplinary, but mostly social psychological and sociological perspective with the goal of enhancing the meaning of life and living.

PreRequisites: PSY 121

PSY 323
Abnormal Psychology
3 credit hours
Fall/Spring

This course begins with definitions of abnormal behavior and proceeds to a review of possible causes. Most of the course focuses upon various DSM-IV classifications of abnormality, such as: mood disorders, anxiety disorders; acute and posttraumatic stress disorders; dissociate disorders; somatoform disorders; stress and physical health; personality disorders; eating disorders; substance use disorders; sexual and gender-identity disorders; and the schizophrenias.

PreRequisites: PSY 121

PSY 325
Industrial and Organizational Psychology
3 credit hours
As required

This course studies the organizational structure and processes in a variety of areas, including personnel, recruitment, selection, placement and counseling; supervision and leadership; motivation and moral; the conditions of work; training, organizational climate; consumer psychology; multinational corporations and diversity in organizations.

PreRequisites: PSY 121

PSY 327
Learning & Cognition
3 credit hours
Spring

This course examines the principles and mechanism of learning, including those involved in conditioning and theory, research, and controversies in the study of cognition. The course also contains a laboratory experience emphasizing the experimental analysis of major learning paradigms and the conducting and reporting of laboratory studies.

PreRequisites: PSY 121

PSY 328
Theories of Personality
3 credit hours
Spring

This course provides coverage of a broad range of personality theories in terms of each theory's core concepts, developmental considerations and statements about the periphery of human personality. Examples of the theories covered include: Sigmund Freud and Psychoanalysis; C. G. Jung and Analytic Psychology; Alfred Adler and Individual Psychology; Anna Freud and the Post-Freudians; Karen Horney and Humanistic Psychoanalysis; Erik Erikson and the life cycle; Wilhelm Reich and Somatic Psychology; William James and the Psychology of Consciousness; B. F. Skinner and Radical Behaviorism; George Kelly and Cognitive Psychology; Carl Rogers and the Person-Centered Perspective; Abraham Maslow and Transpersonal Psychology; Yoga and the Hindu Tradition; Zen and the Buddhist Tradition; Sufism and the Islamic Tradition.

PreRequisites: PSY 121

PSY 329
Social Psychology
3 credit hours
Fall

Social psychology is the study of human behavior as it is shaped by the psychosocial environment. Topics include person perception, small group interaction, theories and methods of attitude change, interpersonal attraction, conformity, aggression, prejudice, persuasion, altruism and prosocial behavior.

PSY 330
Interpersonal & Group Dynamics
3 credit hours
Fall/Spring

This course reviews current psychological theory and research on small groups and interpersonal relations with an examination of interaction between individual behavior and group phenomena. The course provides a significant experience in the dynamics of a small group.

PreRequisites: PSY 121

PSY 331
Tests & Measurements
3 credit hours
Spring (odd years)

A study of the objectives, principles and procedures of various types of measurement including educational and psychological instruments. Test construction, reliability, validity and basic statistical concepts for test use are presented.

PreRequisites: PSY 121

PSY 332
Psychology of Adulthood and Aging
3 credit hours
Spring

Focusing upon middle and late adulthood, this course explores changes in perception, cognition (including memory and creativity), personality, and psychopathology in aging individuals. Topics include coping with the psychological changes of aging, counseling the elderly, the impact of psychological changes on social functioning.

PreRequisites: PSY 121

PSY 335
Physiological Psychology
3 credit hours
Fall

An examination of the physiological and biological constitution of the human species with emphasis on the physiological and biological correlates of human behavior. An examination of the techniques used by physiologists to assess those correlates is also included.

PreRequisites: PSY 121

PSY 340
Counseling Theories & Methods I
3 credit hours
Fall

This is the first course in a two-course counseling sequence. Taken together, these two courses are designed to: a) familiarize students with the basic concepts in the field of counseling; b) introduce students to the major theoretical approaches to counseling and psychotherapy; and c) enable students to develop a level of counseling skill that will enable them to function effectively in a supervised setting. This first semester is more than 50% abstract (lecture/discussion) learning.

PreRequisites: PSY 323

PSY 341
Counseling Theories & Methods II
3 credit hours
Spring

This is the second course in a two-course counseling sequence. Taken together, these two courses are designed to: a) familiarize students with the basic concepts in the field of counseling; b) introduce students to the major theoretical approaches to counseling and psychotherapy; and c) enable students to develop a level of counseling skill that will enable them to function effectively in a supervised setting. This second semester is more than 50% experiential (role-playing; classroom exercise in the use of specific counseling techniques) learning.

PreRequisites: PSY 340

PSY 345
Evolutionary Psychology
3 credit hours
Spring

An in-depth exploration of the controversial theoretical position that human psychology has evolved following Darwinian principles. This

perspective provides a provocative and compelling explanation for the human animal's

cross-cultural similarities. This course emphasizes cognition and social behavior vis a vis natural selection and evolutionary fitness.

PSY 450
Special Topics in Advanced Psychology
1-6 credits
As required

A collection of courses covering a broad range of topics in advanced psychology, offered according to student need and interest. The precise title is announced during registration period for any given term.

PSY 451
Psychology Internship I
1-6 credit hours
Fall/Spring/Summer

An application of behavioral, developmental, group dynamics, and counseling principles through actual work experience. Internship may be repeated. Further information is available from instructor.

PreRequisites: Junior or senior status

PSY 452
Psychology Internship II
1-6 credit hours
Fall/Spring/Summer

An application of behavioral, developmental, group dynamics, and counseling principles through actual work experience. Internship may be repeated. Further information is available from instructor.

PreRequisites: junior or senior status

PSY 455
Senior Seminar in Psychology
3 credit hours
Spring

This is the capstone course that is required of all psychology majors. It is designed to assist students to complete their undergraduate study of psychology through independent reading and library and database research, writing of an integrated literature review, and class discussion of these seminar papers which are presented orally by the students.

PreRequisites: PSY 311

PSY 456
Directed Research
2-4 credit hours
Fall/Spring/Summer

Individual research supervised by a full-time faculty member.

PreRequisites: PSY 121, 311 and permission of the instructor

PSY 457
Independent Study
1-6 credit hours
Fall/Spring/Summer

This course is limited to those few students who have demonstrated an unusual level of ability and an intense commitment to a particular area.

PreRequisites: PSY 121, permission from the department chair; junior or senior status

PSY/SOC 320
Death & Dying
3 credit hours
Spring

This course is topical overview of some of the diverse areas of inquiry grouped under the general heading "death and dying." The basic purpose of this course is to help students understand grief, loss, dying, and death-both as an objective fact and as it relates to their own personal experiences-and to apply this understanding their common experiences. The social, cultural, spiritual, emotional, and intellectual dimensions of death and dying will be examined from an interdisciplinary, but mostly social psychological and sociological perspective with the goal of enhancing the meaning of life and living.

PreRequisites: PSY 121

PSY/SOC/COM 329
Social Psychology
3 credit hours
Fall

Social psychology is the study of human behavior as it is shaped by the psychosocial environment. Topics include person perception, small group interaction, theories and methods of attitude change, interpersonal attraction, conformity, aggression, prejudice, persuasion, altruism and prosocial behavior.

PreRequisites: PSY 121 or SOC 121

RE 195
Real Estate Fundamentals
4 credit hours
As required

An introduction to the field of real estate sales and services. Explored, in this regard, will be the concepts of: public policies, legal implications, market dynamics, services involved and financial applications. Residential, commercial and industrial situations will be covered.

RE 300
Real Estate Law & Ethics
3 credit hours
As required

This course covers the essentials of law as it pertains to real estate activities. Presented are the unique legal aspects of real estate transactions ranging from landlord-tenant relationships to the regulations of land development. Addressed also are the ethical issues of fraud and deceit and the legislation pertinent to real estate operations. A case study approach is utilized.

PreRequisites: RE 195

RE 301
Real Estate Appraisal
3 credit hours
As required

An overview of the appraisal profession now regulated apart from the real estate business. Appraisals are used for pricing, financing, protecting or leasing property. Concepts discussed include: competitive market analysis, market value versus market price, market value versus cost, various approaches to value and the appraisal process.

PreRequisites: RE 195

RE XXX
Real Estate Institute Course
3 credit hours
As required

In development.

RS 101
Old Testament
3 credit hours
Fall/Spring/Summer

A general overview of the Old Testament in light of present historical, literary, theological, and archeological research. Cross listed: SELPHL-006

RS 102
New Testament
3 credit hours
Fall/Spring

A general introduction to the New Testament and overview of the historical, religious and cultural milieu in which these Scriptures originated. Cross-listed with SELPHL-011

RS 103
World Religions
3 credit hours
Fall/Spring/Summer

An examination of the origin, philosophy and religious beliefs of the major religions of the world, including Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, Shintoism, Judaism Christianity, Islam, and Zoroastrianism, as well as the beginning of religion in human history and the characteristics of tribal and national religions. Cross-listed with SELPHL-003

RS 111
Church History
3 credit hours
As required

An examination of the unfolding and growth of Christian thought in the Western world and analysis of the notion of theological development.

RS 112
Christian Ritual & Worship
3 credit hours
As required

A study of the meaning of ritual and worship in Christianity, major steps in the development of the Eucharist (especially in the Western tradition), the impact of the Reformation on the meaning and form of worship and a brief discussion of common symbols as devotions in Roman Catholic and Protestant Christianity.

RS 115
Moral Theology
3 credit hours
As required

A survey of the principles of moral conduct based upon the writings of the New Testament and the teaching of the Catholic Church and of Contemporary Catholic moral theologians. topics include sin, human action, conscience and decision making.

RS 116
Sacramental Theology
3 credit hours
As required

An examination of the foundational elements of the Church's sacramental life from the perspectives of theology, history and anthropology beginning with a discussion of the lived experience of sacraments and developing various models which have guided sacramental praxis, with emphasis on the contemporary influences of symbol and ritual studies.

RS 118
Survey of Catholic Doctrine
3 credit hours
As required

A general overview of the nature of Revelation and its sources, Faith, and the central doctrinal and moral teaching of the Catholic Church.

RS 214
Christology
3 credit hours
As required

A systematic study of the beliefs of the church in the person of Jesus as reflected in Scripture and the early church councils and a survey of contemporary Christological teaching. Cross-listed with SELPHL-005

RS 220
Women & Religion
3 credit hours
As required

A survey of woman's "place" in society, past and present, as it has been and is affected by religious teachings, laws and customs and examination of the attitudes toward women in the Hebrew and Christian Scriptures, in the writing of the early church fathers, the Protestant Reformers, and in the current religious structures of Catholics, Protestants, and Jews.

RS 233
Mystery of God
3 credit hours
As required

Can the existence of God be demonstrated? An examination is made of basic arguments for God's existence: the ontological, the cosmological, the teleological, the moral and the argument from religious experience. Cross-listed with PH 233

PreRequisites: RS 101 or PH 121

RS 234
The Church: Institution/Community
3 credit hours
As required

A comprehensive examination of the church, which is both an institution and a community of people united in their belief that Jesus is the Savior of the world. The church is examined from a Scriptural, theological perspective and conciliar perspective.

RS 250
Special Topics in Religious Studies
3 credit hours
As required

A collection of courses covering a broad range of topics in religious studies, offered according to student need and interest.

PreRequisites: RS 101 and/or RS 102 depending upon the topic

RS 331
Sociology of Religion
3 credit hours
Fall

An analytical presentation of religion as a social institution emphasizing the function of religion in society and its relationship to the conflict and change that characterize modern American life. Cross-listed with SOC 331

RS 337
Religious Influence on U.S. Development
3 credit hours
Fall

An examination and interpretation of the religious forces that shaped American social structures, mores, law and popular opinion from the time of the first Spanish missionaries to the end of the 20th century with emphasis on religious liberty in American ideal and in religious pluralism. Cross-listed with HS 337

RS 340
Varieties of Early Christianity
3 credit hours
As required

A study of Christianity from its origins through the medieval period with special attention to internal issues and external forces which caused conflict, adjustment, development, and finally "varieties" within the Christian world. Topics include dissident movements, the conversion of Constantine, the Germanic invasions, the rise of Islam, feudalism, papal power and how tensions between the institutional church and popular religious movements influenced society. Cross-listed with HS 340

RS 345
Special Topics in Scripture
3 credit hours
Fall 2008

After the person of Jesus, St. Paul is, perhaps, the most important person in the development of Christianity. At the same time, he is the most controversial figure.

Many people view Paul as the source of all that is wrong with Christianity: sexism, authoritarianism, anti-Semitism, and polarization. As we join the universal Church in celebrating a special Jubilee Year in honor of the Apostle Paul, come join us for research, study, and reflection on this ambiguous man and his role in shaping Christianity.

PreRequisites: RS 101 and/or 102 depending upon the topic or permissions of the Department Chair

RS 451
Religious Studies Internship I
3 credit hours
As required

A field experience in selected professional environments. The student is given the opportunity to integrate theoretical knowledge with practical application under the guidance of professionals at the particular institution to which the student is assigned.

PreRequisites: junior or senior status

RS 452
Religious Studies Internship II
3 credits
As required

A field experience in selected professional environments. The student is given the opportunity to integrate theoretical knowledge with practical application under the guidance of professionals at the particular institution to which the student is assigned.

PreRequisites: junior or senior status

RS 455
Senior Seminar
3 credit hours
As required

This seminar consists of research into two or three themes in religious studies, selected and mutually agreed upon by the director of the seminar and the students registered for it. The research is progressive in depth leading to a final conclusion, presentation or paper by the members of the seminar.

PreRequisites: permission of the instructor

RS 456
Directed Research in Religious Studies
3 credit hours
Fall

Individual research in religious studies supervised by a faculty member. The student defines a problem, constructs and carries out a research program and reports on the findings of the research in a critical and analytical paper.

PreRequisites: permission of the faculty member

SED 351
Advanced Field Experience
3 credit hours
Fall/Spring

This junior year experience will provide the student with further opportunity to interact with cooperating teachers. Students will observe the details of classroom management, parent conferences and extra curricular activities as well as teaching methods. Work with exceptional children will be an integral part of this course. A seminar component will be an integral part of this course. Cross-listed with EED 351

SED 451
Secondary Student Teaching
3 credit hours
Fall/Spring

The student teaching experience is an arranged internship in a local school district. The experience consists of 15 weeks of observation and student teaching. Supervision is provided by faculty in the departments of Science Education or English Education in cooperation with teachers from local schools. In order to receive the college's recommendation for certification the student teacher must earn a grade of at least B in this course. **No course work may be taken during the student teaching semester unless approved by the Director, Center for Teacher Education.** Cross listed with EED 451

SEL
CORE Courses/SELECT
3 credit hours
As required

These courses use effective instructional practices to provide an in-depth study of the fundamental principles of one or two disciplines: History, Science, Literature, Social and Cultural Systems, Religion or Philosophy, and Aesthetics.

NOTE: The numerical code printed at the end of each course number is a computer-generated identifying number for each course and does NOT designate the level of academic difficulty of a course.

SELAES
SELECT AESTHETICS
3 credit hours
As required

A CORE course in which effective instructional practices provide an in-depth study of the fundamental principles of one or two disciplines within the domain of aesthetics.

NOTE: The numerical code shown at the end of each course number (SELECTAES-001)

is a computer-generated identifier for each course and does not reflect the level of

academic difficulty of the course.

SELHS-002
Multicultural History of the US
3 credit hours
As required

In this course we examine the history of different ethnic and racial immigrants in the United States; the process of ethnic assimilation into mainstream American culture; and how different groups and races have been treated by the U.S. government. In addition, we examine the reasons that ethnic and racial groups departed their own countries to emigrate here, and recent immigration experiences and changes in U.S. immigration policy.

SELPHL-002
World Views & Identity
3 credit hours
As required

This course provides an introduction to philosophy and philosophical thinking through an in-depth study of the fundamental philosophical disciplines of metaphysics and ontology. This includes an examination of the relationship between cultural traditions and their views on the nature of reality, or Being. An essential component of these worldviews entails perspectives regarding individual or personal identity and meaning, that is, issues about the nature of "self." This analysis of metaphysics and ontology will be grounded primarily upon the study of critical texts.

SOC 121
Race, Class, Gender: An Introduction to Sociology
3 credit hours
Fall

This course is an introduction to the study of society through the critical analysis of social relations, behavior, and organization. It is designed to facilitate students to develop a broad knowledge of how social structures and human behavior influence each other, as well as to identify the issues that arise from such interactions. In order for students to critically analyze contemporary social issues and problems, such discussions will focus along the dimensions of race, class, and gender. No prior knowledge of sociology is expected. Cross-listed with SELSOC-006

SOC 123
Global Social Problems
3 credit hours
Spring

This course is a study of current social problems that take place across the globe. It emphasizes the application of sociological concepts to the critical analysis of social issues and problems in contemporary societies throughout the world, including the US. Cross-listed with SELSOC-007

SOC 134
Race & Ethnicity
3 credit hours
Spring

A study of the social relationships of racial, ethnic, religious and other minority groups with emphasis on personal, cultural and social development. Cross-listed with SELSOC-004

SOC 222
Sports & Globalization
3 credit hours
As required

Using sociological theories and concepts, this course analyzes how society defines and organizes sports. This course also looks at how sports as a (local and globalized) social activity influences important aspects of our lives such as family, education, politics, the economy, media, and religion. It also examines how sports participation affects our ideas about, among other things, gender, class, ethnicity, conformity, and violence.

SOC 230
Juvenile Delinquency
3 credit hours
As required

This course will offer an analysis of Juvenile Delinquency and the juvenile justice system. It will examine the theories of the causes of juvenile crime and the processes of the juvenile justice system. Cross-listed with CRIM 230

PreRequisites: CRIM 101 or SOC 121

SOC 238
Wealth, Power & Prestige
3 credit hours
Spring

The course presents a study of the causes and consequences of political, economic and social inequality. The systematic ranking of individuals and aggregates is analyzed. Institutional and non-institutional determinants of inequality are examined so as to understand the distribution of wealth, status and prestige in society.

SOC 240
Foundations of Social Thought
3 credit hours
Fall

The course examines sociological theories, with emphasis on the works of Durkheim, Marx, Weber, and G.H. Mead and other major contributions to sociological thought.

SOC 245
Islam in the World
3 credit hours
As required

In this course, the basic beliefs of Islam are reviewed, along with a brief history of Islam's overall development and its impact on the world and on various civilizations in different global regions. Islam's internal sects are analyzed, and its political impact on current politics in the world is explored. The role of U.S. foreign policy in dealing with the recent rise of Islam is also analyzed. Cross-listed with HS/PS 245

SOC 261
Social Gerontology
3 credit hours
Fall

A general introduction to social gerontology with emphasis upon the normal aspects of aging. Review of current hypotheses and findings concerning the aging processes are addressed.

SOC 262
Human Services in Modern Society
3 credit hours
Spring

A study of the role of social services in contemporary society. This course is designed to assist students in exploring theories, practices and careers in the helping professions.

SOC 270
Culture & Human Societies
3 credit hours
Fall/Spring

Sociological study of what we mean by culture is taken and critically applied to the discussion of global-historical transformations in human social development, from the period of simple societies to the present age of complex, industrial, and globalized societies.

SOC 308
Sociology of Work & Occupations
3 credit hours
Fall

Work and occupations are examined in historical and contemporary contexts. Emphasis will be placed on the characteristics of professions and the attempts of occupations to professionalize. Focus will be on the macro level (the effects of advancements in technology, bureaucratization and unionization on the division of labor), the microlevel (job satisfaction and alienation), and on the interface between macro and micro levels (do individuals of equal ability have equal access to prestige careers regardless of race, ethnicity, gender, age, or other attributes).

SOC 311
Research Methods
3 credit hours
Spring

This course examines major research methods. The student will be exposed to the development and evaluation of research design and conclusions, conducting of research, preparation of research papers and ethics in research. The emphasis will be on survey methods, participant observation and ethnographic research.

SOC 320
Death & Dying
3 credit hours
Spring

This course is a topical overview of some of the diverse areas of inquiry grouped under the general heading "death and dying." The basic purpose of this course is to help students understand grief, loss, dying, and death-both as an objective fact and as it relates to their own personal experiences-and to apply this understanding to their common experiences. The social, cultural, spiritual, emotional, and intellectual dimensions of death and dying will be examined from an interdisciplinary, but mostly social psychological and sociological perspective with the goal of enhancing the meaning of life and living.

SOC 325
Social Change & Development
3 credit hours
Spring

The exploratory study of social change and its impact on the social institutions of contemporary society. The course examines various theories, processes and areas of social change and presents an overview of the social effects of modernization on non-industrialized societies.

SOC 326
Women in American Society
3 credit hours
Fall

This course is an introduction to the field of women's studies that focuses on the significance of gender in shaping the culture, society, and influence of the United States. Drawing upon a diverse set of theories, methods, and approaches from the social sciences, this course focuses primarily on the interrelated dynamics of gender at both the individual and societal levels in the United States, although we will view this country from both a comparative and an international perspective, showing how gender-related social and cultural phenomena vary across countries. Among the topics covered are cultural norms and values, socialization, interpersonal behavior, strategies of power and influence, gender-based violence, sexuality and reproduction, and social institutions such as the family, workplaces, government, education, religion and the media.

SOC 327
Family Relations
3 credit hours
Fall

A sociological analysis of the family with emphasis on historical trends and contemporary family life in the United States. The study includes family relationships and functions, family disorganization and change, with an overview of the family as a major social institution.

SOC 329
Social Psychology
3 credit hours
Fall

Social psychology is the study of human behavior as it is shaped by the psychosocial environment. Topics include person perception, small group interaction, theories and methods of attitude change, interpersonal attraction, conformity, aggression, prejudice, persuasion, altruism and prosocial behavior.

SOC 330
Theories of Criminal Deviance
3 credit hours
Fall

An examination of the etiology and theories of criminality with special reference to the environmental and psychosocial factors of deviance. This course will examine deviance among criminal and offender populations with particular emphasis on defining variance and the causes of deviant behavior. The responses of the criminal justice system to deviant behavior from detection and apprehension, to adjudication, to correctional treatment methods are explored and discussed. Cross-listed with CRIM 330

SOC 331
Sociology of Religion
3 credit hours
Spring

An analytical presentation of religion and society. This study of religion as a social institution emphasizes its function in society and its relatedness to the conflict and change that characterize modern American life. Cross-listed with RS 331

SOC 337
Victims of Abuse and Neglect
3 credit hours
Fall

This course addresses the social and psychological conditions, which give rise to the physical abuse of children and adults. The principal focus is an examination of child abuse and neglect, battered spouses, victims of rape and assault and victims in institutions. The effects on the individual and possible societal responses are also explored.

SOC 339
Politics and Society
3 credit hours
Fall

The course is designed to familiarize the student with the social bases of political power. Politics is viewed as a process in relation to the social and economic structures, which influence its direction. A consideration of the effects which politics has on these structures is also offered. A detailed analysis of the primacy of politics in the 20th century is included. Cross-listed with PS 339

SOC 340
Ethnic Conflict
3 credit hours
As required

In this course we examine why ethnic groups sometimes get along very well, but other times engage in conflict. We query: What are the political and social origins of ethnic conflicts in various parts of the world? Do ethnic conflicts differ in different world regions? What national and international policies encourage ethnic conflict? How can we encourage ethnic groups to pursue peaceful accommodations? Cross-listed with PS 340

SOC 341
Cities & Globalization
3 credit hours
As required

This course examines the social dynamics of urbanization, urban social structure, and urban development. It analyzes, through various theories of urban sociology, the city as a form of social organization and as centers of economic and political processes. It also looks at how globalization has impacted various cities around the world in terms of their growths and declines.

SOC 343
Sociology of Mental Health
3 credit hours
Spring

An introduction to the field of sociological practice. Provides an understanding of micro and macro sociological theory and how it is used to assess, analyze, and diagnose human problems. Introduces students to casework and problem solving with small groups, organizations, and families. Acquaints students with the broad range of professional opportunities for the sociological practitioner.

SOC 350
Education & Society
3 credit hours
As required

This course is a critical analysis of education as a social institution. It looks at the interactive relations between education and the social dimensions of class, race, ethnicity, and gender, both in the US and in selected countries around the world.

SOC 351
Development in Southeast Asia
3 credit hours
As required

This course looks at the history of social, political and economic development of Southeast Asia, excluding Indochina, and focusing primarily on Indonesia, Malaysia, and the Philippines. It will discuss the contingent and dependent nature of development of these countries under the larger framework of global capitalism, and how such development affects the national historical experiences of these countries. Cross-listed with HS/PS 351

SOC 381
Environment & Society
3 credit hours
As required

This course is designed to provide an approach to study and analyze the interactions between society and the environment, and the political economic impacts of environmental problems. Focus will be on both the social causes of and social responses to various environmental problems, at the local, national, and global levels.

SOC 382
Social Movements & Resistance
3 credit hours
As required

This course examines the origin, growth, and dynamics of social movements as forms of social protest and resistance against state and global injustices. Discussions include case studies of various social and political groups, non-government organizations, and liberation and revolutionary movements in the US and throughout the world. Cross-listed with PS 382

SOC 455
Senior Seminar in Sociology
3 credit hours
Fall

A course designed to assist students in culminating and synthesizing their study of sociology on the undergraduate level through independent readings, research and class discussion. Required for sociology majors.

PreRequisites: SOC 240 & SOC 311 & senior status

SOC 4XX
Special Topics in Feminist Theory
3 credit hours
As required

In development.

SP 101
Elementary Spanish I
3 credit hours
Fall

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in beginning Spanish.

The goal of the course is the acquisitions of a useful, communicative command of the language at the "Novice-Mid" to "Novice-High" level on the national scale, as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target language input (oral and visual), active oral and written practice of real-life language tasks or "functions" (conversing with an exchange student, completing forms, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

SP 201
Intermediate Spanish I
3 credit hours
Fall

As a continuation of SP 102, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in intermediate Spanish.

The goal of the course is the acquisition of a useful, communicative command of the language at the "Novice High" to "Intermediate Low" level on the national scale as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target-language tasks of "functions" (e.g., ordering a meal, making travel arrangements, visiting a doctor's office, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: SP 102 or equivalent

SP 202
Intermediate Spanish II
3 credit hours
Fall

As a continuation of SP 201, this course is part of a proficiency-bases language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading, and writing skills in intermediate Spanish.

The goal of the course is the acquisition of a useful, communicative command of the language at an "Intermediate Low" to "Intermediate Mid" level on the national scale, as established by the American Council on the Teaching of Foreign Languages and the Education Testing Service. This goal will be realized through maximum exposure to authentic target-language input (oral and visual), active oral and written practice of real-life language tasks or "functions" (e.g., conversing with an exchange student, going to the bank, using the telephone, going to the doctor's office, etc.), and exploration of cultural subtleties conveyed by language, thought, and customs.

SP 230
Hispanic Literature and Culture
3 credit hours
As required

SP 301
Advanced Spanish Language & Culture I
3 credit hours
Fall

As a continuation of Spanish 202, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in Spanish.

The goal of the course is the acquisition of a useful, communicative command of the language at the "Intermediate-Low" to "Intermediate-Mid" level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language input (oral and visual), active oral and written practice of real life language tasks or "functions" (e.g. ordering a meal, making travel arrangements, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: SP 202 or equivalent

SP 302
Advanced Spanish Language & Culture II
3 credit hours
As required

As a continuation of SP 301, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in Spanish.

The goal of the course is the acquisition of a useful communicative command of the language at the "Intermediate-Mid to Intermediate High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language input (oral and visual), active oral and written practice of real life language tasks fo "functions" (e.g. giving suggestions, making plans for the future, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: SP 301 or equivalent

SP 305
Advanced Spanish Grammar & Compostion
3 credit hours
Spring

This course is structured to enhance the knowledge of grammar and the reading and writing skills of students who have already achieved an intermediate level or oral, written and reading proficiency in Spanish as measured on the ACTFL/ETS scale. Students will learn correct grammatical construction through literary readings and discussion, intensive vocabulary study, intensive study of grammar points, and composition practice.

PreRequisites: SP 302

SP 310
Advanced Conversation
3 credits
Fall

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire speaking and listening comprehension skills in English as a Second Language at the "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized by the following means: Practice on stress, intonation and difficult pronunciation as needed; Presentation, discussions, and other activities in small groups and as a class; Speeches and debates prepared in advance; Listening comprehension activities and note-taking practice.

This course will be conducted in Spanish to assist students in maintaining their proficiency goals.

PreRequisites: SP 305

SP 315
Applied Hispanic Linguistics
3 credit hours
Fall

This course introduces the student to general linguistic theory and its application to the problems which teachers face in the foreign language classroom. Students will discover practical resolutions to problems encountered in the presentation of linguistic material. A study of the sound system of Spanish and training in native-like Spanish pronunciation will also be incorporated into the course.

SP 320
Spanish Culture
3 credit hours
As required

This course will introduce the student to the study of culture including the relationships between the perspectives, products, and practices of the culture of Spain (as stated in the National Standards for Foreign Language Teaching). Students will study the early cultures which contributed to Spanish culture as it exists today. Also included is the study of the history, geography, economics, religions(s), political systems, art, literature, dance, music, architecture, traditions, customs and other cultural symbols of Spain.

This course will be conducted in Spanish to assist students in maintaining their proficiency goals.

SP 325
Latin American Culture
3 credit hours
As required

This course will introduce the student to the study of culture including the relationships between the perspectives, products, and practices of the cultures of Latin American (as stated in the National Standards for Foreign Language Teaching). Students will study the early cultures which contributed to Latin American culture as it exists today. Also included is the study of the history, geography, economics, religions(s), political systems, art, literature, dance, music, architecture, traditions, customs and other cultural symbols of Latin America, Latin society in the U.S. and in Equatorial Guinea.

This course will be conducted in Spanish to assist students in maintaining their proficiency goals.

SP 330
Survey of Spanish Literature
3 credit hours
Spring (even years)

Using texts written by contemporary Spanish and Hispanic authors, students will increase their knowledge of vocabulary including idiomatic expressions. Complex grammatical structures will be reviewed and practiced in written form. Stylistics will also be addressed. This course will be conducted in Spanish to assist students in maintaining their proficiency goals.

SP 340
Survey of Latin American Literature
3 credit hours
Fall

A study of the major literary periods, trends and genres in Spanish American literature from pre-Columbian times through the 20th century from an historical perspective. Literary texts to be read and discussed include representative selections of key historic texts and literary figures from each major literary period.

PreRequisites: SPAE 310

SP 440
Senior Seminar: Special Topics
3 credit hours
Fall

A collection of courses designed to present topics of special interest to foreign language students. Topics could include, but are not limited to, literature of particular authors or art/culture.

SP 457
Research in Spanish Studies
1-6 credit hours
Fall

Independent study course for students who have demonstrated an intense commitment to investigate a particular area of Spanish studies. The student will design an independent study in conjunction with the appropriate language faculty member.

SPED 210
Assessment/Diagnosis of Special Needs Students
3 credit hours
Fall/Spring

This course provides opportunities for students to acquire the knowledge skills and attitudes needed to identify special needs students and to provide the appropriate academic and social experiences for them. The legal foundations and the services available for special needs students will be discussed.

SPED 220
Program/Classroom Management
3 credit hours
Fall/Spring

The belief that all children can learn includes the understanding that different rates of learning and different methods of teaching are concepts integral in that belief. Adapting the regular curriculum for the special needs student and managing classroom procedures in a way which include that students are essential skills for the teacher. These skills require knowledge of brain development, understanding of the impact of disabilities on academic and social behavior and the ability to design curriculum. This course addresses these specific skill requirements.

SPED 310
Methods and Practicum
3 credit hours
Fall

The application of theory to practice is an essential component of this certificate program. Methods appropriate for working with the range of special needs students now included in our schools will be the focus of this course. Observing the methods as they are practiced by master teachers in the classroom is an essential component. The transition of special needs students from grade to grade and to the world beyond graduation will be discussed. Theory and practice will be integrated into this course.

SPED 320
Inter/Intra Group Communication
3 credit hours
Spring

This course helps all professionals who work with children identify, understand, and help those students who have language and communication difficulties. The student will have the opportunity to understand the language and communication skills relating to special needs students as well as language disorders in the regular classroom.

SPED 330
Mentoring/Practicum
3 credit hours
Spring

The focus of this field experience course is to prepare the student for an authentic overview of teaching special education prior to student teaching. The student will participate in a special education classroom for eight five-hour sessions, create a weekly journal, develop meaningful lesson plans, prepare an observational case study, and be responsible for the various forms used in the special education setting. The major emphasis of the class will concentrate on providing the student with a realistic experiential and comprehensive view of special education in the school setting.

SPED 410
Advanced Seminar
3 credit hours
Spring/Summer

In this culminating experience, which precedes student teaching the student will participate in discussions, contribute to panel presentations and debate current issues on the questions of professionalism and ethical practices in the field of special education. Experienced professionals in the field will share their experiences and provide guidance for the students as they prepare to enter the challenging, rewarding career of special education teacher.

PreRequisites: SPED210 & SPED220

SPED 451
Student Teaching and/or Project
3 - 6 credit hours
Fall/Spring

The student teaching and/or Project experience is a supervised experience in an appropriate educational setting. This multi-week experience includes observation and teaching by the student and guidance and mentoring by both the teacher in the setting and the college supervisor. No course work may be taken during the student teaching experience unless approved by the Director of the Center for Teacher Education.

SPH 101
Modern Public Speaking
3 credit hours
Fall/Spring/Summer

Intended to develop an understanding of and facility in the preparation, organization, delivery and criticism of speeches.

SPH 122
Creative Dramatics
3 credit hours
Spring

A course in improvisational drama with emphasis on educational and motivational skills, games and the performing arts. Workshop participation is expected.

SPH 202
Contemporary Communication Through Discussion
3 credit hours
Fall/Spring

Intended to acquaint the student with basic concepts essential for effective communication in small groups, to increase the student's ability to examine and evaluate small group interactions and to develop communication skills through participation in small group discussions.