

LA ROCHE COLLEGE



Course Catalog

2011-2012

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La Roche Academic Policies & Regulations

Wednesday, December 14, 2011

A Disclaimer

This publication is not to be viewed as an irrevocable contract between the College and the student and is subject to change consistent with policies of the Board of Trustees. The College reserves the right to repeal, change, amend, modify, add, withdraw the contents herein, without notice of obligation.

La Roche Academic Policies & Regulations

Wednesday, December 14, 2011

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 program at La Roche College. All special students are required to register each term through the Graduate and Continuing 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.

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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 be 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 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.

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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 45 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 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). 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.
- **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 (PH 229) in writing that any or all of the information designated should not be released without the student's prior consent.

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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 120-138 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, the Academic and Career Advising Office, the Registrar's Office, and faculty secretaries. The forms must be returned to the Academic and Career Advising Office.

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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 and 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 considered satisfactory completion of any developmental course. 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:

- MATH 0010 Basic Math I
- MATH 00015 Beginning Algebra
- ESLN 0086-0120 English as a Second Language

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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 which establishes the prerequisites.

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 to 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. Juniors and/or seniors who have completed a minimum of 15 credits at La Roche College and 12 credits in their major may coordinate an internship with their academic advisor. Initial inquiries concerning internships should be directed to the Academic and Career Advising Office.

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+ | 3.300 | |
| B | 3.000 | |
| B- | 2.700 | |
| C+ | 2.300 | |
| C | 2.000 | Average |
| C- | 1.700 | |
| D+ | 1.300 | |
| D | 1.000 | |
| D- | 0.700 | 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. Freshmen midterm grade reports will be mailed to faculty advisors during the advising period as determined by the academic calendar. In addition, faculty are required to report any earned "D" or "F" midterm grades for students other than freshmen. Names of students given "D" or "F" midterm grades will be mailed to their respective faculty advisor.

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 from the end of the semester in which the incomplete grade was awarded, the "X" grade will automatically become an "F" grade. Extension beyond six weeks may be granted only by an academic dean and then only in the most compelling circumstances.

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 five areas: writing, English comprehension, reading comprehension, arithmetic and elementary algebra. Transfer students who have not or will not receive transfer credit for ENGL 1011 and/or a math course beyond MATH 1006 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 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.

Repeated Course

A course may be repeated no more than one time. When a course is repeated, the higher grade of the two is used in computing the QPA. In general, students may not take courses failed at La Roche College at other institutions. When a course is repeated, the original course grade remains on the student's transcript but does not factor into the student's QPA.

Semester Credit Maximum

The average number of credits carried by full-time students is 15 hours each semester. 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 at 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 online to the Registrar's Office. A student's written or electronic signature is required to release any transcript. A fee is charged for each transcript copy requested. A student who has not met all financial obligations to the college will not be given a transcript of credits.

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 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 and transcripts will not be issued.

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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. At the time you are completing your application for graduation, you need to obtain a program guide and meet with your advisor to confirm your completion of graduation requirements. Return the completed application with your 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 honors 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.

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Registration

Registration

A student is permitted to attend only those classes for which he or she is officially registered. New students are pre-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 Registrar 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 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 Registrar 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 Academic Tuition & Fees

Tuition

Undergraduate (Full-Time)

| | |
|--------------------------------------------------------------------------------------------|------------|
| Tuition per semester | \$11215.00 |
| RN-BSN, LEAD, Undergraduate Health Science (degree completion) - per credit/fees included. | \$ 575.00 |

Undergraduate (Part-Time)

| | |
|-------------------------|-----------|
| Tuition per credit hour | \$ 575.00 |
|-------------------------|-----------|

Graduate (Full-Time)

| | |
|-----------------------------------------------------------------------|-----------|
| Tuition Deposit - Full-Time Graduate Students - <i>non-refundable</i> | \$ 100.00 |
| Tuition per credit hour | \$ 625.00 |
| Anesthesia Tuition per credit hour | \$ 635.00 |

Residence Fees

| | |
|--------------------------------------------------------------------|-----------|
| Residence Hall key and damage deposit (non-refundable) | \$ 100.00 |
| Bold Food Service Plan per semester | \$1521.00 |
| Kettler Food Service Plan per semester | \$1398.00 |
| Residence Hall charges (board mandatory for all resident students) | \$2906.00 |
| Parking Fee for Resident Students (optional) | \$ 100.00 |

Processing Fees

| | |
|----------------------------------------|-----------|
| Late Application Fee for Graduation | \$ 25.00 |
| Reprint/Replacement Diploma | \$ 40.00 |
| Late Registration Fee (after add/drop) | \$ 100.00 |
| Incomplete Grade Processing Fee | \$ 5.00 |
| International Application Fee | \$ 50.00 |
| Graduation Fee | \$ 80.00 |
| Class Withdrawal Fee | \$ 50.00 |
| Insufficient Funds Returned Check | \$ 25.00 |
| Official Transcript Copy | \$ 7.50 |

Other Fees/Semester

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 |
| Abraham, Basmah | Adjunct |
| Abramovic, A. Mark | |
| Adams, Rita, MS | Visiting Professor |
| Adkins, Lucille A. | Adjunct |
| Agarwal, Neha | Assistant Professor |
| Al-Kamel, Aref Amen | Adjunct |
| Andreykovich, Lara C. | Adjunct |
| Antonucci, Ronald A. | Adjunct |
| Archer, Lynn K., EDD | Professor |
| Archer, Richard E. | |
| Arend, Lori J., LSW | Adjunct |
| Arnold, Jane P., MS | Associate Professor |
| Barnett, James | Adjunct |
| Barron, Maria A. | Assistant Professor |
| Basil, Kelly | |
| Bates, Thomas J., MA | Associate Professor |
| Bayer, Janine, PHD | Assistant Professor |
| Bellin, Joshua D., PHD | Professor |
| Berdanier, Robert D. | Adjunct |
| Bergman, Ronald C. | Adjunct |
| Bisbey, Michele E., CPH | Professor |
| Blum, Jay P. | Adjunct |
| Bobinchock, Edward J, MA | Assistant Professor |
| Boerio, Victor A. | |
| Boone, Jason | |
| Bowers, Anne | |
| Bozym, Rebecca A. | Assistant Professor |
| Brett, Edward T., PHD | Professor |
| Bruen, Ella Jane, CDP | Adjunct |
| Butera, Ralph | Adjunct |
| Butz, Margaret | Adjunct |
| Buxareo, Beverly | Adjunct |
| Byers, Richard L. | Adjunct |
| Calva, Steve | |
| Cararie, Gretchen S. | Adjunct |
| Carse, Debbie | |
| Caruso, Maria | |
| Cercone, Sharon | Adjunct |
| Chapman, Pam, MSN | Assistant Professor |
| Cho, Shinil, PHD | Associate Professor |

| | |
|------------------------------|------------------------------------|
| Christy, Lauren M. | Adjunct / Clinical Instructor |
| Clark, Richard M. | |
| Collette, Nancy | Adjunct |
| Colville, Robert J. | Adjunct |
| Connolly, Patrick Thomas, MA | Assistant Professor |
| Cooper, Robert J. | Adjunct Off-site Coordinator - HSC |
| Corso, Kirstie | |
| Crammond, Joanna | Adjunct |
| Croft, Daniel T., Jr. | |
| Czyzewski, Andrew J., Jr. | |
| Dagnon, John M. | |
| Dawson, Mark, CPA | Associate Professor |
| Day, David | Adjunct |
| Deem, Marie Tobia | |
| Delgado, Miriam | Adjunct |
| DiCianna, Christopher | Adjunct |
| Doko, Genc E. | |
| Farrell, William L. | Adjunct Professor |
| Fero, Paul G. | Adjunct Faculty - INT |
| Fetchko, Michael J., JD | Assistant Professor |
| Forrest, Joshua, PHD | Associate Professor |
| Forti, Jean C., PHD | Associate Professor |
| Fraser, Kenneth | |
| Frund, Zane Neil, PHD | Adjunct |
| Fujito, Don T., PHD | Professor |
| Ganni, Jessica | Adjunct Faculty |
| Gates, Janet, PHD | Professor |
| Germaine, Susan | Adjunct |
| Gilardi, Ronald L. | Adjunct |
| Goss, Rachael D. | Adjunct |
| Grasso, Thomas X., Jr. | |
| Hall, Miranda J. | Assistant Professor |
| Hanley, Scott | Adjunct Professor |
| Harper, Eleanor | |
| Hartman, Phyllis G., SPHR | Adjunct |
| Henne, Terrance R. | |
| Herrington, Barbara E., PHD | Professor |
| Hogle, William | |
| Hores, Helen L. | |
| Horton, William P. | Adjunct |
| Houston, Michael S. | Adjunct |
| Howell, K. Barry | |
| Hutchison, Marc C. | Adjunct |
| Illig, Stephanie L | Assistant Professor |
| Joos, Brian | Adjunct |
| Joos, Irene R., PHD | Associate Professor |
| Jordan Platt, Linda, PHD | Professor |
| Jordan, Constance E. | Adjunct |
| Kaloz, Kimberly | |
| Kamphaus, Lisa A., MSIA | Assistant Professor |
| Kersten, Astrid L., PHD | Professor |
| King, Richard C. | Adjunct |
| Kleeman, Edward William, JR | |
| Knee, Robin | Adjunct |
| Korade, Andrea E. | Adjunct |
| Kreidler, Nicole Bieak, MS | Assistant Professor |
| Krzemien, Louis J., Jr. | Adjunct |
| Kurtz, Ronald J. | Adjunct |
| Kurzweg, Carolyn Z. | Adjunct |
| Kuttesch, Lois | Adjunct |
| Lampe, Lauren P., MFA | Professor |
| Latal, Mladen | Adjunct |
| Lauer, Eugene F. | |
| Laux, Richard F. | Adjunct |
| Lawrey, Claudia | |
| Le Blanc, Paul J., PHD | Professor - History |
| Leight, Robert R. | Adjunct |
| Lesic, Ursula Renee | Adjunct |
| Lewis, Albert R | |
| Liberto, Terri L., MSN | Assistant Professor |
| Liddle, Helena F._G. | |
| Likar, Lawrence, JD | Associate Professor |
| Lodge, Donald R. | |
| MacQuarrie, Allan | |
| Maher, Michelle B., PHD | Professor |
| Maliszewski, Stanley R. | Adjunct |
| Markowitz, Lee J., PHD | Assistant Professor - Psychology |
| Martinelli, Rosemary | Adjunct |
| McBride, Robert K., PHD | Professor |
| McCarthy, Cynthia Simmons | Adjunct |
| McCaughey, Leland M., II | Adjunct |
| Merolillo, Maureen | Adjunct |
| Merolillo, Timothy Michael | Adjunct |

| | |
|-----------------------------|------------------------------------------|
| Miller, Philip L | |
| Mitchell, Robert G., MA | Assistant Professor |
| Moltz, Carol, PHD | Professor |
| Morris, Donna J. | Adjunct |
| Mozisek, Korryn D | |
| Mueller, Sheila K., CPA | Assistant Professor |
| Murray, Susan Marie | Adjunct |
| Nagar, Devvrat J., M.ED | Professor |
| Nellis, Deborah L. | Adjunct |
| Neutrelle, James | Adjunct |
| Nicholls, Mary_Ann | Adjunct |
| Nist, Alisha | |
| O'Connell, William Terry | Adjunct |
| O'Connor, Barbara J., MSRT | |
| O'Grady, Ryan | Assistant Professor |
| Orr, Donald J., PHD | Professor |
| Pittsburgh Filmmakers | |
| Poznik, Krisna | |
| Puglisi, Joseph J., MBA | Assistant Professor |
| Ripepi, Maria C., MFA | Assistant Professor |
| Ritter, Jeffrey, PHD | Professor |
| Robertson, Linda L., PHD | Associate Professor |
| Romzick, Patrice E. | Adjunct |
| Rosenberg, Stanford H., PHD | Professor |
| Ross, Frank S. | Adjunct |
| Roulette, Lisa | |
| Rowe, Gail E., PHD | Professor |
| Rugg, Natalie C. | Assistant Professor |
| Rushmore, William | Adjunct |
| Sankaran, Vedavalli | Adjunct |
| Sauret, Alain M. | Adjunct |
| Sauret, Chiara Veroni | Adjunct |
| Saville, Jacquelyn F. | Adjunct |
| Sayeed, Sameera | Adjunct |
| Schneider, John M. | |
| Schwartz, Eric D. | Adjunct |
| Schwarz, Myrna S. | Adjunct |
| Seelhorst, Wayne | Adjunct |
| Semple, Wesley S. | Adjunct |
| Shimko, Emily | Adjunct Faculty - Biology/Health Science |
| Shirrell, Elizabeth | Assistant Professor |
| Silvis, Kathryn, EDD | Assistant Professor |
| Singleton, Charles A. | |
| Sipper, Mark | Adjunct |
| Smith, Brian Thomas, PHD | Professor |
| Snyder, Paul | Adjunct |
| Spangler, Katherine K. | Adjunct |
| Sproull, Frederick A., PHD | Associate Professor |
| Stahl, Charlotte J. | |
| Stankowski, Edward, MFA | Associate Professor |
| Stearns, Ruth | Adjunct |
| Stover, Charles T. | Adjunct |
| Strickland, Harry B., PHD | Professor |
| Stumpf, Linda R., PHD | Visiting Professor |
| Sullivan, Kathleen A., PHD | Professor |
| Swartz, Steven | |
| Tajuddin, Azlan, PHD | Assistant Professor |
| Timmerman, Kathleen D. | |
| Vincent, Anthony J. | Adjunct |
| Warren, John H. | |
| Wee, John | |
| Wehrheim, Nancy | Adjunct |
| Weimer, Christen | |
| Werbaneth, James P. | Adjunct |
| Wertheimer, Maureen | |
| Wetter, Vicki | |
| Whitacre, Denise | |
| White, Thomas E. | Adjunct |
| White, William L., Jr. | Adjunct |
| Whiteman, Leona, MS | Senior Lecturer |
| Wicks, Samuel James | |
| Winterhalter, Dana Jill | Adjunct |
| Wood, Sally Elizabeth | Adjunct |
| Yeasted, Rita Marie, PHD | Professor |
| Yingling, Gabrielle, M.ED | Visiting Professor |
| Young, Michael W., PHD | Senior Lecturer |

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.

Regular meetings of the Board are held in the months of February, May and October. The following are current Board members:

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| | |
|---------------------------------------|----------------------------------------------------------------------|
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| | |
|--------------------------------------|---------------------------------------------------------------------------------------------------|
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| Robert J. Howard | President, Crown Management Group, Inc. |
| Sister Candace Introcaso, CDP, Ph.D. | President, La Roche College |
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| David C. Peters | Consulting Engineer, Allison Park, PA |
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| Steven E. Pohl, BS '81 | Vice President for Finance and Business Performance, North America Novelis Inc. Atlanta, GA |
| Ambassador Anthony C.E. Quinton | Distinguished Diplomat in Residence American University Washington, DC |
| Susan Long Quinton | Retired International Educator Washington, DC |
| Robin Randall | Sewickley, PA |
| Susan L. Rauscher | Executive Director Catholic Charities of the Diocese of Pittsburgh, Inc. |
| Sister Lydia Steele, CDP | Financial & Facilities Administrator Sacred Heart Elementary School Kingston, MA |
| Karen D. Watson, MBA, CFA, AIF | Senior Investment Consultant Yanni Partners, a Division of GBS Investment Consulting, LLC |
| Karen Yoshino, Ph.D. | Director, Consulting Blackboard, Inc. Washington D.C. |
| Richard A. Zappala (Emeritus) | Chairman (Retired) - First City Company |

La Roche Course Catalogue

Wednesday, December 14, 2011

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.

ENGL1011 - College Writing: Exposition I
ENGL1011L - College Writing: Exposition I Lab
ENGL1012 - College Writing: Exposition II
MATH1010/A - College Algebra (minimum math requirement for credit toward degree)
ISTC1005 - 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) - eighteen (18) 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.

COMM "Community"
GLBL "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.

La Roche Course Catalogue

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Core Curriculum

Community

| | |
|-----------|-------------------------------------------|
| COMM4003 | Making Community in Antebellum America |
| COMM4009 | Media & Democracy |
| COMM4013 | Rule of Law |
| COMM4020 | Social Communities in 20th Century |
| COMM4021 | Land & Community in Native America |
| COMM4021H | Land & Community in Native America-Honors |
| COMM4036 | Virtual Communities & Social Media |
| COMM4038 | The Creative Process |
| COMM4040 | Surviving Economically in the Community |

Global

| | |
|-----------|--------------------------------------------------------------|
| GLBL4005 | Why We Fight: Historical Conflict in Fact, Fiction & Film |
| GLBL4007 | Internet, Communication & Development |
| GLBL4011 | Crime & Terror: A Global Perspective |
| GLBL4011H | Crime, Terror & The Environment: A Global Perspective-Honors |
| GLBL4015 | Early Canadian History & Tales |

| | |
|----------|------------------------------------------------------------------------------------|
| GLBL4017 | Diseases That Changed The World |
| GLBL4025 | Women Across Cultures |
| GLBL4027 | Global Justice & Human Rights Historical, Political & Social-Economic Perspectives |
| GLBL4029 | Global Adornment |
| GLBL4033 | Literacy, Culture and Education |
| GLBL4045 | Moral of the Story |

Select Aesthetics

| | |
|----------|--------------------------------------------------------------------------|
| SLAE1001 | Art in Everyday Life |
| SLAE1002 | Intro to Art |
| SLAE1003 | Digital Fine Arts |
| SLAE1004 | Intro to Dance Literacy |
| SLAE1006 | The Aesthetics of Color |
| SLAE1007 | Music Appreciation I: Classical Music for Those Who Hate Classical Music |
| SLAE1008 | Women's 4-Part a capella Performance |
| SLAE1009 | Music Appreciation II: Jazz Overview - America's First Cool Music |
| SLAE1010 | Creative Dramatics |
| SLAE1011 | History of Rock & Roll: Special Topics |
| SLAE1012 | Fundamentals of Music |
| SLAE1097 | History of Musical Theater |

Select Dual Domain

| | |
|----------|-----------------------------------------------------------|
| SLDD1001 | Coming of Age: Film & Literature |
| SLDD1002 | Fantasy: Film & Literature |
| SLDD1003 | Mystery: Film & Literature |
| SLDD1004 | Writing & Singing the Blues: African-American Lit & Music |
| SLDD1005 | The Bible as Literature |
| SLDD1006 | Jesus in Film & History |

Select History

| | |
|-----------|------------------------------------------|
| SLHS1001 | Major Issues in Modern U.S. History |
| SLHS1002 | Multicultural History of the U.S. |
| SLHS1002H | Multicultural History of the U.S.-Honors |
| SLHS1003 | History of the World |

Select Literature

| | |
|----------|---------------------------------------------|
| SLLT1001 | Sing & Praise: Contemporary Poetry |
| SLLT1002 | World Literature I |
| SLLT1003 | Shakespeare on Film |
| SLLT1005 | This Great Game: Lit & Baseball |
| SLLT1006 | The Fantastical in Literature & Film |
| SLLT1007 | The Fire & the Rose: Religious World Poetry |
| SLLT1008 | Contemporary Literature |
| SLLT1009 | Literature of the Environment |
| SLLT1010 | World Literature II |
| SLLT1011 | Issues in American Literature II |
| SLLT1012 | Special Topics in Literature |
| SLLT1013 | Issues in American Literature I |
| SLLT1014 | Comic Books & Graphic Narrative |
| SLLT1015 | Studies in Literature |

Select Religion

| | |
|----------|---------------------------|
| SLRS1002 | World Views & Identity |
| SLRS1003 | World Religions |
| SLRS1005 | Christology |
| SLRS1006 | Old Testament |
| SLRS1008 | Parables as Literature |
| SLRS1009 | Literature of the Gospels |
| SLRS1011 | New Testament |
| SLRS1012 | Intro to Philosophy |
| SLRS1013 | Ethics |
| SLRS1014 | Women & Religion |

Select Science

| | |
|----------|-----------------------------------------------------------|
| SLSC1001 | Intro to Chemistry: Braving the Elements |
| SLSC1002 | Intro to Biology: Bugs & Brew |
| SLSC1003 | Intro to Human Body: Systems That Move You |
| SLSC1005 | Introduction to Computer Science: Bits, Bytes and Beyond. |
| SLSC1006 | Introduction to Physical Science: Let's Get Physical |
| SLSC1007 | CSI: Chemistry : Chemical Principles in Criminalistics |
| SLSC1008 | Principles of Chemistry I |
| SLSC1009 | Intro to Biology: CSI |
| SLSC1010 | The Natural Sciences |
| SLSC1011 | Life Science |
| SLSC1012 | Introduction to Computer Science |

Select Social / Cultural

| | |
|-------------------|-------------------------------------------------|
| SLSO1002 | International Justice Systems |
| SLSO1004 | Race & Ethnicity |
| SLSO1006 | Race, Class & Gender: Introduction to Sociology |
| SLSO1007 | Global Social Problems |
| SLSO1008 | Human Communication |
| Business Division | |

La Roche Course Catalogue

Wednesday, December 14, 2011

Business Division

Programs of Study

Majors

| | |
|--------------------------------|----|
| Accounting | BS |
| Finance | BS |
| International Affairs | BA |
| International Management | BS |
| Management | BS |
| Management Information Systems | BS |
| Marketing | BS |
| Medical Imaging | 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 |
| Web Design and Development | 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-Accounting | MS |
| Business Division Detail | |

Detail - Business Division

Accounting

[Accounting Department Website](#)

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The major in accounting is designed to give students a comprehensive treatment of current accounting principles and practices. The main goals of the program are to prepare students for professional careers in accounting and to aid them in meeting the education requirements for the Pennsylvania CPA and CMA certifications. The program also provides preparation for graduate study in accounting, business or public administration. Accounting courses give students ample opportunity to achieve a degree of proficiency in accounting skills and analytical techniques. To complete the accounting major successfully, the following course work is required:

- 48 credits in Business Core Requirements

- 21 credits in Accounting Major Requirements
- 6 credits in Accounting Major Electives
- 9 credits in Skills Components
- 34 credits in CORE Curriculum

Accounting Major Requirements: 21 credits

| | |
|----------------------------|----------|
| Taxation I | ACCT3001 |
| Taxation II | ACCT3002 |
| Intermediate Accounting I | ACCT3011 |
| Intermediate Accounting II | ACCT3012 |
| Cost Accounting | ACCT3014 |
| Advanced Accounting | ACCT4001 |
| Auditing | ACCT4002 |

Business Core Requirements: 48 credits

| | |
|-----------------------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Managerial Accounting | ACCT2013 |
| Macroeconomics | ADMG1005 |
| Microeconomics | ADMG1006 |
| Fundamentals of Management | ADMG1018 |
| Business Law I | ADMG2009 |
| Organizational Behavior | ADMG2018 |
| Human Resources Administration | ADMG2025 |
| Operations Management | ADMG4020 |
| Seminar-Business Policy | ADMG4055 |
| Financial Management | FINC3032 |
| Financial Institutions | FINC3036 |
| International Business Management | INMT3039 |
| Practical Computer Applications | ISTC1005 |
| Marketing Management | MRKT2021 |

English Writing Component: 30 credits

| | |
|--------------------------------------|-----------|
| Creative Writing I | ENGL2040 |
| Creative Non-Fiction: Special Topics | ENGL3012D |

Major Electives: 6 credits

| | |
|------------------------------------------|----------|
| Accounting with Computers | ACCT2025 |
| Accounting Internship I | ACCT4051 |
| Accounting Internship II | ACCT4052 |
| Business Law II | ADMG2010 |
| Business Organization & Regulation | ADMG3010 |
| Investments | FINC3031 |
| Commercial Bank Management | FINC3034 |
| Managerial Finance | FINC4033 |
| International Finance | INMT4046 |
| International Legal Environment | INMT4048 |
| Advanced Practical Computer Applications | ISTC1006 |
| Management Of Information Systems | ISTC2021 |
| Data Base Management Systems | ISTC2045 |
| Distributed Data Processing | ISTC2050 |

Skills Component Requirements: 9 credits

| | |
|-----------------------------------------------------------|----------|
| Professional Presentations | ADMG3024 |
| Calculus for Business, Economics, and Managerial Sciences | MATH1030 |
| Probability and Statistics | MATH1040 |

Finance

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The central objectives of the major in finance are to develop students' critical and analytical skills and to enable them to apply these skills effectively in identifying and solving problems in the area of finance. A second program objective is to foster within the student awareness of values and moral issues in modern finance.

To successfully complete the Finance Degree, a minimum of 120 credits are required, the last 30 of which must be earned at La Roche College. The following coursework is required:

- 48 credits of Business Core Requirements
- 15 credits of Finance Major Requirements
- 12 credits of Finance Major Electives
- 9 credits of Skills Components
- 34 credits of CORE Curriculum courses

Business Core Requirements: 48 credits

| | |
|-----------------------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Managerial Accounting | ACCT2013 |
| Macroeconomics | ADMG1005 |
| Microeconomics | ADMG1006 |
| Fundamentals of Management | ADMG1018 |
| Business Law I | ADMG2009 |
| Organizational Behavior | ADMG2018 |
| Human Resources Administration | ADMG2025 |
| Operations Management | ADMG4020 |
| Seminar-Business Policy | ADMG4055 |
| Financial Management | FINC3032 |
| Financial Institutions | FINC3036 |
| International Business Management | INMT3039 |
| Practical Computer Applications | ISTC1005 |
| Marketing Management | MRKT2021 |

Finance Major Electives: 12 credits

| | |
|------------------------------------|----------|
| Taxation II | ACCT3002 |
| Business Law II | ADMG2010 |
| Business Organization & Regulation | ADMG3010 |
| Risk Management & Insurance | FINC3040 |
| Real Estate Investment | FINC4039 |
| Management Of Information Systems | ISTC2021 |
| Networking | ISTC2030 |
| Systems Analysis and Design | ISTC4042 |
| Probability and Statistics II | MATH3045 |

Finance Major Requirements: 15 credits

| | |
|----------------------------|----------|
| Taxation I | ACCT3001 |
| Investments | FINC3031 |
| Commercial Bank Management | FINC3034 |
| Managerial Finance | FINC4033 |
| International Finance | INMT4046 |

Skills Component Requirements: 9 credits

| | |
|-----------------------------------------------------------|----------|
| Professional Presentations | ADMG3024 |
| Calculus for Business, Economics, and Managerial Sciences | MATH1030 |
| Probability and Statistics | MATH1040 |

International Affairs[International Studies Department Website.](#)

The International Affairs program will offer students the opportunity to develop a global perspective by being exposed to the complexities of world politics and economics. It will instill in students an awareness and appreciation for the mosaic of cultural diversity among nations and peoples. Students will be familiarized with the rapidly developing international organizational structures in government, business and other areas of international activity. Students will have career opportunities in public service in international areas of government and diplomacy, international governmental and non-governmental organizations and international business.

To complete the International Affairs concentration successfully, the following course work is required:

- 36 credits of International Affairs Major Requirements
- 18 credits of International Affairs Major Electives (NOTE: Students may select up to 9 credits in History and/or Geography).
- 12 modern language credits in a language other than the student's native language
- 37 credits Core Curriculum courses
- 17 credits of General Electives selected by the student and the advisor.

120 credits are required for graduation, the last 30 of which must be completed at La Roche College.

International Affairs Major Electives: 18 credits

| | |
|----------------------------------------|----------|
| Any Approved Geography Course | GEOGXXXX |
| Any Approved Geography Course | GEOGXXXX |
| Any Approved Geography Course | GEOGXXXX |
| Any approved History Course | HISTXXXX |
| Any approved History Course | HISTXXXX |
| Any approved History Course | HISTXXXX |
| International Business Management | INMT3039 |
| International Marketing | INMT3049 |
| International Finance | INMT4046 |
| Internship in International Studies I | INST4051 |
| Internship in International Studies II | INST4052 |
| Independent Study | INST4057 |

Eastern Philosophy
Any Approved Political Science Course
World Religions

PHIL1022
POLIXXXX
RELS1003

International Affairs Major Requirements: 36 credits (select INST2011 or INST3010)

| | |
|--------------------------------------------------|---------------|
| Macroeconomics | ADMG1005 |
| American Foreign Policy | INST/POLI3033 |
| Global Politics | INST2001 |
| Intercultural Communication | INST2003 |
| World Geography | INST2011 |
| International Political Economy | INST3003 |
| Cultural Geography & the Human Mosaic | INST3010 |
| Research Methods | INST3011 |
| Comparative Government | INST3021 |
| Development: Political, Social & Economic Issues | INST3025 |
| International Legal Environment | INST4048 |
| Senior Seminar in International Affairs | INST4055 |
| Introduction to American Government | POLI1022 |

International Management

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The major in international management is designed to offer students an opportunity to broaden their perspectives to include the international aspects of management of business enterprise. A central objective is to train students interested in a career in international business by familiarizing them with the international operations of business enterprises and other institutions.

Students become familiar with the international economic and legal environment through a comprehensive review of international trade, foreign investment and the international monetary and legal systems. Students are further encouraged to develop a global perspective in their education by learning a foreign language, studying world geography, world politics and other courses with an international emphasis.

To complete the international management major successfully, the following course work is required:

- 48 credits in Business Core courses
- 9 credits of Skills Component courses
- 12 credits of International Management Major Requirements
- 12 credits of International Management Major Electives
- 6-8 credits in a Foreign Language other than the student's native language
- 34 credits of CORE Curriculum requirements

A minimum of 120 credits is required for graduation, the last 30 of which must be completed at La Roche College.

Business Core Requirements: 48 credits

| | |
|-----------------------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Managerial Accounting | ACCT2013 |
| Macroeconomics | ADMG1005 |
| Microeconomics | ADMG1006 |
| Fundamentals of Management | ADMG1018 |
| Business Law I | ADMG2009 |
| Organizational Behavior | ADMG2018 |
| Human Resources Administration | ADMG2025 |
| Operations Management | ADMG4020 |
| Seminar-Business Policy | ADMG4055 |
| Financial Management | FINC3032 |
| Financial Institutions | FINC3036 |
| International Business Management | INMT3039 |
| Practical Computer Applications | ISTC1005 |
| Marketing Management | MRKT2021 |

International Management Major Electives: 12 credits

| | |
|-------------------------------------------------|-----------------|
| Communication Between Cultures | CMET2003 |
| World Geography | GEOG/INST2011 |
| European Geography | GEOG/INST2012 |
| Cultural Geography and the Human Mosaic | GEOG/INST3010 |
| Geography & World Affairs | GEOG/INST3013 |
| International Management Internship I & II | INMT4051 & 4052 |
| Independent Study in International Management | INMT4057 |
| History & Politics of Africa | INST/POLI3018 |
| American Foreign Policy | INST/POLI3033 |
| Global Politics | INST2001 |
| International Political Economy | INST3003 |
| Eastern Philosophy | PHIL1022 |
| Comparative Government | POLI/INST3021 |
| Development: Political, Social, Economic Issues | POLI/INST3025 |

World Religions RELS1003

International Management Major Requirements: 12 credits

| | |
|---------------------------------|----------|
| International Political Economy | ADMG3003 |
| International Marketing | INMT3049 |
| International Finance | INMT4046 |
| International Legal Environment | INMT4048 |

Skills Component Requirements: 9 credits

| | |
|-----------------------------------------------------------|----------|
| Professional Presentations | ADMG3024 |
| Calculus for Business, Economics, and Managerial Sciences | MATH1030 |
| Probability and Statistics | MATH1040 |

Management

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

This major is designed to give students a solid foundation in the area of management. The main goals of the program are to prepare students for career opportunities in business administration and to prepare them for further study at the graduate level in business or public administration.

To successfully complete the Management Degree a minimum of 120 credits are required, the last 30 of which must be taken at La Roche College. The following coursework is required:

- 48 credits of Business Core Requirements
- 21 credits of Management Major Electives (can be selected from any of the Accounting, Finance, Information Systems, International Management, Administration & Management, Marketing or Real Estate courses, except ACCT1001, ADMG1001 or ADMG1030)
- 9 credits of Skills Components
- 34 credits of CORE Curriculum courses

Business Core Requirements: 48 credits

| | |
|-----------------------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Managerial Accounting | ACCT2013 |
| Macroeconomics | ADMG1005 |
| Microeconomics | ADMG1006 |
| Fundamentals of Management | ADMG1018 |
| Business Law I | ADMG2009 |
| Organizational Behavior | ADMG2018 |
| Human Resources Administration | ADMG2025 |
| Operations Management | ADMG4020 |
| Seminar-Business Policy | ADMG4055 |
| Financial Management | FINC3032 |
| Financial Institutions | FINC3036 |
| International Business Management | INMT3039 |
| Practical Computer Applications | ISTC1005 |
| Marketing Management | MRKT2021 |

Skills Component Requirements: 9 credits

| | |
|-----------------------------------------------------------|----------|
| Professional Presentations | ADMG3024 |
| Calculus for Business, Economics, and Managerial Sciences | MATH1030 |
| Probability and Statistics | MATH1040 |

Management Information Systems

[Information Systems & Technology Department Website](#)

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The major is designed to provide students with the knowledge, abilities and attitudes needed to function effectively as business and organizational programmers and analysts. Further, it provides students with the educational background for lifelong professional, cultural, educational and personal development. The MIS major will receive in-depth education and training in at least three different career-related areas:

- In systems development methodologies, which provide the fundamental problem-solving approaches used in the profession
- In technical computer skills, which provide the tools for implementing those problem solutions
- In business theory, which provides an understanding of the context within which the systems are implemented.

This program is part of our Management and Information Systems Technology (MIST) program in the Business Division.

To complete the Management Information Systems major successfully, the following course work is required.

- 48 Business Core Requirements credits
- 12 Skills Component credits
- 27 MIS major credits

3 MIS major elective credits
34 credits of Core Requirements

A minimum of 120 credits are required for degree, the last 30 of which must be completed at La Roche College.

Business Core Requirements: 48 credits

| | |
|-----------------------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Managerial Accounting | ACCT2013 |
| Macroeconomics | ADMG1005 |
| Microeconomics | ADMG1006 |
| Fundamentals of Management | ADMG1018 |
| Business Law I | ADMG2009 |
| Organizational Behavior | ADMG2018 |
| Human Resources Administration | ADMG2025 |
| Operations Management | ADMG4020 |
| Seminar-Business Policy | ADMG4055 |
| Financial Management | FINC3032 |
| Financial Institutions | FINC3036 |
| International Business Management | INMT3039 |
| Practical Computer Applications | ISTC1005 |
| Marketing Management | MRKT2021 |

MIS Major Electives: 3 credits

| | |
|---------------------------------------------|----------|
| Accounting with Computers | ACCT2025 |
| Auditing | ACCT4002 |
| Networking | ISTC2030 |
| Linux | ISTC3030 |
| Computer Programming in Java | ISTC3034 |
| Advanced Data Base Management Concepts | ISTC3046 |
| Information Systems Technology Internship I | ISTC4051 |

MIS Major Requirements: 27 credits

| | |
|-----------------------------------|----------|
| Problem Solving | ISTC1021 |
| Computer Hardware | ISTC1025 |
| Introduction to Cyberspace | ISTC2008 |
| Management Of Information Systems | ISTC2021 |
| Data Base Management Systems | ISTC2045 |
| Distributed Data Processing | ISTC2050 |
| Computer Programming: COBOL | ISTC3020 |
| Systems Analysis and Design | ISTC4042 |
| Senior Seminar in IST | ISTC4055 |

Skills Component: 12 credits

| | |
|-----------------------------------------------------------|----------|
| Professional Presentations | ADMG3024 |
| Technical Writing | ENGL2030 |
| Calculus for Business, Economics, and Managerial Sciences | MATH1030 |
| Probability and Statistics | MATH1040 |

Marketing

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The field of Marketing includes a variety of related business activities. While individual occupations within these diverse areas may be specialized, decisions in any one of them require a broad understanding of the marketing process and an ability to analyze the factors that influence it. The marketing process begins with the identification and design of products or services, which will satisfy customer needs in both for-profit and non-profit environments. It continues with the packaging, pricing, advertising, distribution, sales promotion and servicing of the firms' offerings, whether in the real space or virtual (internet) environment.

The major in Marketing is designed as a comprehensive study of all these activities, providing both the common background required for any marketing career and an opportunity for specialization based on the student's interests. Students learn through the classroom as well as outside research projects involving real world marketing challenges.

This broadly designed major is appropriate for careers in:

- generalized marketing and brand management
- advertising, PR, and promotional strategy
- personal selling and sales management
- retail merchandising and management, and
- marketing research

In this extremely competitive age of business, marketing provides the tools and skills necessary for differentiating companies, products and individuals. An understanding of product design, advertising, pricing, consumer behavior and distribution management is also essential. This major will actively promote an internship experience for students that can greatly facilitate the job search process.

To complete the Marketing major successfully, the following course work is required:

- 48 Business Core Requirement credits
- 9 Skills Component credits
- 15 Marketing major required credits
- 15 Marketing major recommended electives
- 34 CORE academic program requirements and general electives

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

Business Core Requirements: 48 Credits

| | |
|-----------------------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Managerial Accounting | ACCT2013 |
| Macroeconomics | ADMG1005 |
| Microeconomics | ADMG1006 |
| Fundamentals of Management | ADMG1018 |
| Business Law I | ADMG2009 |
| Organizational Behavior | ADMG2018 |
| Human Resources Administration | ADMG2025 |
| Operations Management | ADMG4020 |
| Seminar-Business Policy | ADMG4055 |
| Financial Management | FINC3032 |
| Financial Institutions | FINC3036 |
| International Business Management | INMT3039 |
| Practical Computer Applications | ISTC1005 |
| Marketing Management | MRKT2021 |

Business Skills Components: 9 credits

| | |
|-----------------------------------------------------------|----------|
| Professional Presentations | ADMG3024 |
| Calculus for Business, Economics, and Managerial Sciences | MATH1030 |
| Probability and Statistics | MATH1040 |

Marketing Major Electives: 15 credits

| | |
|------------------------------------|----------|
| Advertising and Public Relations | MRKT2007 |
| Personal Selling | MRKT3016 |
| Sports Marketing | MRKT3031 |
| Internet Marketing | MRKT3050 |
| Brand Management | MRKT4016 |
| Services Marketing | MRKT4018 |
| Sports Administration & Management | MRKT4019 |
| Retail Marketing & Management | MRKT4035 |
| Sales Management | MRKT4046 |
| Marketing Internship | MRKT4051 |

Marketing Major Requirements: 15 credits

| | |
|---------------------------------------------|----------|
| Buyer Behavior | MRKT3012 |
| Marketing Research | MRKT3033 |
| International Marketing & Export Management | MRKT3049 |
| Marketing Strategy | MRKT4014 |
| Contemporary Topics in Marketing | MRKT4031 |

Medical Imaging

This major is meant to prepare students for a career in Medical Imaging, including, but not limited to, radiography, MRI, nuclear medicine and ultrasound. A student must have already completed an approved hospital program in one of these areas.

To successfully complete the Medical Imaging major, the following coursework is required:

- Current RT or RDMS Certification (60 credits)
- 21 credits of Liberal Arts courses
- 27 credits of CORE curriculum courses
- 12 credits of General Electives

A minimum of 120 credits are required for the degree, the last 30 of which must be earned at La Roche College.

Liberal Arts Component: 21 Credits

| | |
|----------------------------------------|----------|
| Intro to Administration and Management | ADMG1001 |
| Administration and Management Elective | ADMGXXXX |
| Administration and Management Elective | ADMGXXXX |
| Probability and Statistics | MATH1040 |
| Introduction to Psychology | PSYC1021 |

Liberal Arts Component: 21 Credits (Select 1 of the following Courses)

Professional Presentations ADMG3024
Modern Public Speaking SPCH1001

Liberal Arts Component: 21 Credits (Select 1 of the following ENGL Courses)

Business Communications ENGL2029
Technical Writing ENGL2030

Real Estate

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The real estate major is designed to prepare students for successful careers in the real estate industry. Rather than preparing students specifically as broker/salespersons, appraisers, property managers, or real estate developers, the proposed curriculum produces significant exposure to all facets of the profession while stressing common underlying principles of business. Graduates of the program will find opportunities with depository institutions in the mortgage-lending area with mortgage bankers, insurance companies, or pension funds, which finance real estate ventures.

Students successfully completing the 120-credit requirement will not only receive a bachelor of science degree but also will qualify to sit for several of the certification exams available in the real estate profession. After completing the coursework of the Real Estate major, students should be able to demonstrate successful experience of a broad, high-quality education of the varied aspects of business; demonstrate the technical training necessary for success in real estate and related areas; and, utilize the status of a bachelors degree to professionalize their real estate careers.

The following coursework is required to complete the major in Real Estate:

48 Business Core credits
9 Business Skills credits
34 CORE Curriculum credits
10 General Elective credits
3 credits of Real Estate Major Electives
16 credits of Real Estate Requirements

120 credits are required for degree, the last 30 of which must be taken at La Roche College.

Note: A variety of credit options exist for individuals currently working in the real estate industry. For information on earning college credit for your professional experience and skills, contact the La Roche College Office of Graduate Studies and Adult Education.

Find out how your work experience may count for college credit through our Credit for Life Experience Program. To learn more about this option, [CLICK HERE](#).

Business Core Requirements: 48 credits

| | |
|-----------------------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Managerial Accounting | ACCT2013 |
| Macroeconomics | ADMG1005 |
| Microeconomics | ADMG1006 |
| Fundamentals of Management | ADMG1018 |
| Business Law I | ADMG2009 |
| Organizational Behavior | ADMG2018 |
| Human Resources Administration | ADMG2025 |
| Operations Management | ADMG4020 |
| Financial Management | FINC3032 |
| Financial Institutions | FINC3036 |
| International Business Management | INMT3039 |
| Practical Computer Applications | ISTC1005 |
| Marketing Management | MRKT2021 |

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

| | |
|--------------------------------|----------|
| Project Management | ADMG3015 |
| Writing for Advertising | ENGL3034 |
| Study of Great American Houses | IDSN3015 |
| Buyer Behavior | MRKT3012 |
| Personal Selling | MRKT3016 |
| Real Estate Institute Course | REALXXXX |

Major Requirements: Complete all five courses (16 credits)

| | |
|-----------------------------|----------|
| Risk Management & Insurance | FINC3040 |
| Real Estate Investment | FINC4039 |
| Real Estate Fundamentals | REAL1095 |
| Real Estate Law & Ethics | REAL3000 |
| Real Estate Appraisal | REAL3001 |

Accounting Minor

[Accounting Department Website](#)

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Eighteen (18) credits are required for completion of a minor in Accounting. Three (3) academic years are estimated for completion with respect to fall/spring course rotation and prerequisites. Students interested in preparing for the CPA examination should consult with the Accounting Department Chair for assistance. Completion of this minor alone may not necessarily facilitate adequate preparation for the professional credential.

Elective Courses: 9 credits

| | |
|----------------------------|----------|
| Accounting with Computers | ACCT2025 |
| Taxation I | ACCT3001 |
| Taxation II | ACCT3002 |
| Intermediate Accounting I | ACCT3011 |
| Intermediate Accounting II | ACCT3012 |
| Cost Accounting | ACCT3014 |
| Advanced Accounting | ACCT4001 |
| Auditing | ACCT4002 |

Required Courses: 9 credits

| | |
|-----------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Managerial Accounting | ACCT2013 |

Finance Minor

Twenty-one credits (21) are required for completion of a minor in Finance.

NOTE: An Accounting, Management, E-Commerce or International Management major would need only three (3) courses to receive a minor in Finance. Students pursuing any of these majors should consult with their advisor.

Choose one of the following courses (3 credits)

| | |
|-----------------------------|----------|
| Risk Management & Insurance | FINC3040 |
| Real Estate Investment | FINC4039 |
| International Finance | INMT4046 |

Required Courses (18 credits)

| | |
|------------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Taxation I | ACCT3001 |
| Investments | FINC3031 |
| Financial Management | FINC3032 |
| Financial Institutions | FINC3036 |

Information Technology Minor

Requirements: 18 credits

3 academic years are estimated for Information Technology minor completion with respect to fall/spring course rotation and prerequisites.

Required Courses: 6 credits

| | |
|-----------------------------------|----------|
| Problem Solving | ISTC1021 |
| Management Of Information Systems | ISTC2021 |

Select 4 courses from the list below: 12 credits

| | |
|------------------------------------------|----------|
| Computer Crime | CRIM3043 |
| Advanced Database Theory | CSCI4055 |
| Advanced Practical Computer Applications | ISTC1006 |
| Computer Hardware | ISTC1025 |
| IST: A Global Perspective | ISTC2005 |
| Introduction to Cyberspace | ISTC2008 |
| Computer-Based Training & DL | ISTC2025 |
| Networking | ISTC2030 |
| Data Base Management Systems | ISTC2045 |
| Advanced Computer Hardware | ISTC3000 |
| Legal Issues and Info Tech | ISTC3005 |
| Web Page Usability & Programming | ISTC3008 |
| IT Services Administration | ISTC3010 |
| Human Computer Interaction | ISTC3015 |
| Advanced Data Base Management Concepts | ISTC3046 |

Management Information Systems Minor

[Information Systems & Technology Department Website](#)

Requirements: 18 credits

3 academic years are estimated for Computer Information Systems minor completion with respect to fall/spring course rotation and prerequisites.

Minor Electives: 6 credits

| | |
|----------------------------------|----------|
| Database Systems Theory | CSCI2055 |
| Problem Solving | ISTC1021 |
| Introduction to Cyberspace | ISTC2008 |
| Distributed Data Processing | ISTC2050 |
| Web Page Usability & Programming | ISTC3008 |

Required Courses: 12 credits

| | |
|----------------------------------------|----------|
| Management Of Information Systems | ISTC2021 |
| Data Base Management Systems | ISTC2045 |
| Advanced Data Base Management Concepts | ISTC3046 |

Required Courses: Select 1 of the following courses

| | |
|-----------------------------|----------|
| Project Management | ADMG3015 |
| Systems Analysis and Design | ISTC4042 |

Management Minor

Three (3) academic years are estimated for completion of the Management Minor with respect to fall/spring course rotation and prerequisites. Management and Information Systems Technologies (MIST) majors may not declare a management minor.

To complete the Management Minor, 18 credits are required.

Requirements: 18 credits

| | |
|----------------------------------------|----------|
| Accounting Concepts | ACCT1001 |
| Intro to Administration and Management | ADMG1001 |
| Macroeconomics | ADMG1005 |
| Fundamentals of Management | ADMG1018 |
| Human Resources Administration | ADMG2025 |
| Marketing Management | MRKT2021 |

Marketing Minor

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

To complete the Marketing Minor, a total of 15 credits are required.

Minor Electives: Select 9 credits (3 courses)

| | |
|---------------------------------------------|----------|
| Advertising and Public Relations | MRKT2007 |
| Personal Selling | MRKT3016 |
| Sports Marketing | MRKT3031 |
| Marketing Research | MRKT3033 |
| International Marketing & Export Management | MRKT3049 |
| Internet Marketing | MRKT3050 |
| Brand Management | MRKT4016 |
| Services Marketing | MRKT4018 |
| Sports Administration & Management | MRKT4019 |
| Contemporary Topics in Marketing | MRKT4031 |
| Retail Marketing & Management | MRKT4035 |
| Sales Management | MRKT4046 |

Minor Requirements: 6 credits (Select MRKT3012 or MRKT4014)

| | |
|----------------------|----------|
| Marketing Management | MRKT2021 |
| Buyer Behavior | MRKT3012 |
| Marketing Strategy | MRKT4014 |

Mathematics Minor

[Math-Physics Department Website](#)

A minor in Mathematics would be advantageous to a student contemplating graduate study in many sciences, engineering, telecommunications or financial mathematics.

To complete a minor in mathematics, 7 courses (24 credits) must be taken in mathematics in accordance with the following schedule.

Minor courses must be completed within the student's graduation timeline. A minimum GPA of 2.0 must be achieved in the minor coursework.

Please note, with the exception of the three 4-credit Calculus courses, mathematics courses are worth 3 credits. Inasmuch as the required courses are sequential and ordinarily offered yearly, the student may complete the minor in mathematics in - to reckon from the commencement of the semester in which Analytical Geometry and Calculus I is taken (and passed) - as few as two and one-half academic years; it is more likely, however, that the completion of the minor will require at least three full academic years. Owing to the fundamental nature mathematics, several majors at La Roche entail either a minor in mathematics or a significant part thereof.

Required Courses: 24 credits

| | |
|-----------------------------------|----------|
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Analytic Geometry & Calculus III | MATH2030 |
| Ordinary Differential Equations | MATH2031 |
| Discrete Mathematics I | MATH2050 |
| Discrete Mathematics II | MATH2051 |
| Linear Algebra | MATH3015 |

Web Design and Development

The Web Design and Development Minor combines the best of the Graphic and Communication Design, Information Technology and Marketing departments to provide a well-balanced overview of both programming and design.

There are two distinct programs for this minor:

- 1)for students enrolled as Graphic and Communication Design major
- 2)for students enrolled in Information Systems Technology and all other majors on campus

To successfully complete the Web Design and Development Minor students will complete a minimum of 15 credits and maintain GPA of 2.0 in their minor coursework.

Note: Students enrolled in this minor will be required to purchase or have access to their own specific URL and complete access to administering the URL. The student must maintain and keep the URL active during the life of their minor coursework.

Minor Electives (All Majors Except GCD): Select 3 credits

| | |
|----------------------------------------|----------|
| Fundamentals of Electronic Publishing | GCDN1025 |
| Computer-Based Training & DL | ISTC2025 |
| Data Base Management Systems | ISTC2045 |
| Web Page Usability & Programming | ISTC3008 |
| Human Computer Interaction | ISTC3015 |
| Linux | ISTC3030 |
| Computer Programming in Java | ISTC3034 |
| Advanced Data Base Management Concepts | ISTC3046 |
| Internet Marketing | MRKT3050 |

Minor Electives (GCD Majors): Select 12 credits

| | |
|----------------------------------------|----------|
| Computer-Based Training & DL | ISTC2025 |
| Data Base Management Systems | ISTC2045 |
| Web Page Usability & Programming | ISTC3008 |
| Human Computer Interaction | ISTC3015 |
| Linux | ISTC3030 |
| Computer Programming in Java | ISTC3034 |
| Advanced Data Base Management Concepts | ISTC3046 |
| Internet Marketing | MRKT3050 |

Minor for Graphic and Communication Design Majors: Minor Electives-Select 12 credits (ISTC2045 or CSCI2055 AND ISTC3034 or CSCI1010)

| | |
|----------------------------------------|----------|
| Programming I | CSCI1010 |
| Database Systems Theory | CSCI2055 |
| Computer-Based Training & DL | ISTC2025 |
| Data Base Management Systems | ISTC2045 |
| Web Page Usability & Programming | ISTC3008 |
| Human Computer Interaction | ISTC3015 |
| Linux | ISTC3030 |
| Computer Programming in Java | ISTC3034 |
| Advanced Data Base Management Concepts | ISTC3046 |
| Internet Marketing | MRKT3050 |

Minor for Graphic and Communications Majors: Minor Requirements- 3 credits

| | |
|-----------------------|----------|
| Scripting for the Web | ISTC3028 |
|-----------------------|----------|

Minor for Other Majors: Minor Electives-Select 3 credits (ISTC2045 or CSCI2055 AND ISTC3034 or CSCI1010)

| | |
|---------------------------------------|----------|
| Programming I | CSCI1010 |
| Database Systems Theory | CSCI2055 |
| Fundamentals of Electronic Publishing | GCDN1025 |
| Computer-Based Training & DL | ISTC2025 |
| Data Base Management Systems | ISTC2045 |

| | |
|----------------------------------------|----------|
| Web Page Usability & Programming | ISTC3008 |
| Human Computer Interaction | ISTC3015 |
| Linux | ISTC3030 |
| Computer Programming in Java | ISTC3034 |
| Advanced Data Base Management Concepts | ISTC3046 |
| Internet Marketing | MRKT3050 |

Minor for Other Majors: Minor Requirements-12 credits

| | |
|-----------------------|----------|
| Web Graphics I | GCDN1080 |
| Multimedia I | GCDN2029 |
| Web Graphics II | GCDN2080 |
| Scripting for the Web | ISTC3028 |

Required Courses (All Majors Except GCD):12 Credits

| | |
|-----------------------|----------|
| Web Graphics I | GCDN1080 |
| Multimedia I | GCDN2029 |
| Web Graphics II | GCDN2080 |
| Scripting for the Web | ISTC3028 |

Required Courses (GCD Majors): 3 credits

| | |
|-----------------------|----------|
| Scripting for the Web | ISTC3028 |
|-----------------------|----------|

Accounting Certificate

[Accounting Department Website](#)

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Certificate Benefits

You may have your bachelor's degree and are working in a position at your company that requires you to perform accounting- or finance-related job duties. If you like them, and you want to take the next step in building your career, you should learn more about this new program at La Roche. Accounting is a booming job market right now; recruiters are actively seeking La Roche accounting graduates to join their businesses. This certificate also will help you further your goal of becoming a CPA or CMA.

Course of Study

To complete the Accounting Certificate 24 credits are needed: 12 credits of Required Courses and 12 credits of Electives that provide you with an accounting certificate that documents your concentrated study in the field.

Electives: 12 credits (Select 4 courses)

| | |
|----------------------------|----------|
| Taxation I | ACCT3001 |
| Taxation II | ACCT3002 |
| Intermediate Accounting I | ACCT3011 |
| Intermediate Accounting II | ACCT3012 |
| Cost Accounting | ACCT3014 |
| Advanced Accounting | ACCT4001 |
| Auditing | ACCT4002 |

Required Courses: 12 credits; General Rotation (8 weeks each)

| | |
|---------------------------|----------|
| Accounting I | ACCT2003 |
| Accounting II | ACCT2004 |
| Managerial Accounting | ACCT2013 |
| Accounting with Computers | ACCT2025 |

Administration Certificate Program

Twenty-four (24) credits will be required for the certificate. No more than nine credits will be transferred from another institution.

Required Courses: 24 credits

| | |
|--------------------------------|----------|
| Managerial Accounting | ACCT2013 |
| Macroeconomics | ADMG1005 |
| Fundamentals of Management | ADMG1018 |
| Business Law I | ADMG2009 |
| Organizational Behavior | ADMG2018 |
| Human Resources Administration | ADMG2025 |
| Project Management | ADMG3015 |
| Marketing Management | MRKT2021 |

Consulting for Organizational Learning, Development and Change

This certificate provides students with specific knowledge and skills in human resources development, upon which expertise in the practice and analysis of organizational communications is built. Students also gain a solid working knowledge of the ideas and activities involved in designing and

evaluating organizational training and development programs. Theories, concepts, and tools necessary for the initiation and implementation of organizational change are covered in this certificate program.

Required Courses:

| | |
|----------------------------------|----------|
| Computer and Web-based Training | HRMT6001 |
| Training and Development | HRMT6012 |
| Planning and Implementing Change | HRMT6020 |
| Any 6000-level HRM course | HRMT6XXX |

Contemporary Concepts in Human Resources Management

[Human Resources Management Website](#)

This program provides an up-to-date overview of contemporary concepts in the field of human resources management. The student will learn to analyze a variety of organizational structures and select one that is compatible with a company's technological and environmental needs. Ideal for the entering student, this certificate provides a broad-based view of organization management as well as exposure to information systems and other "contemporary" processes and issues.

| | |
|---------------------------|----------|
| Organizational Behavior | HRMT5020 |
| Organizational Theory | HRMT5023 |
| Any 6000-level HRM course | HRMT6XXX |
| Any 6000-level HRM course | HRMT6XXX |

Financial Aspects of Human Resources Management

This certificate introduces students to key financial aspects of the human resources management field. Valuable insight into the basic concepts of finance and budgeting as well as a broadened theory and practical application related to labor economics and compensation management is provided.

Required Courses (Select one of the following):

| | |
|-------------------------------------------|----------|
| Training and Development | HRMT6012 |
| Planning and Implementing Change | HRMT6020 |
| Labor Relations and Collective Bargaining | HRMT6021 |
| Performance Management Systems | HRMT6036 |

Required Courses:

| | |
|----------------------------------|----------|
| Financial Analysis and Budgeting | HRMT5011 |
| Compensation Management | HRMT6013 |
| Employee Benefits Management | HRMT6015 |

HR Professional

A graduate-level track designed for the practicing HR professional who wants to take the PHR or SPHR Certification Examination. Twelve credits are required for completion of this Certificate. HRMT5012, 5020 and 6035 are required courses. Students may select HRMT6013, 6015, 6016 OR 6021 to complete credit requirements.

| | |
|---------------------------|----------|
| Organizational Behavior | HRMT5020 |
| SHRM Learning System | HRMT6035 |
| Any 6000-level HRM course | HRMT6XXX |
| Any 6000-level HRM course | HRMT6XXX |
| Any 6000-level HRM course | HRMT6XXX |
| Any 6000-level HRM course | HRMT6XXX |

Human Resources Generalist

The HR generalist certificate provides instruction in the essential elements of the HR generalist's job-recruitment, benefits, management, and managing human resource information systems. "HR Generalist" is the title used by most organizations to describe the typical HR staff professional. It provides you with specific knowledge and skills in human resources for an entry level position.

| | |
|------------------------------|----------|
| Organizational Behavior | HRMT5020 |
| Employee Benefits Management | HRMT6015 |
| Recruitment and Placement | HRMT6017 |
| Any 6000-level HRM course | HRMT6XXX |

Human Resources Information Systems and Technology

This certificate provides the student with skills in HR database design, development, and management, including the use of the internet for recruitment and other corporate purposes. As human resource information systems are being used by more and more corporations today, the certificate gives the graduate an edge in the hunt for promotions and new jobs.

| | |
|----------------------------------------------------|----------|
| Organizational Behavior | HRMT5020 |
| Human Resources Information Systems | HRMT6000 |
| Computer and Web-based Training | HRMT6001 |
| Managing Information Technology & Change Processes | HRMT6034 |

Legal Aspects of Human Resources Management

This certificate provides a comprehensive introduction to the current legislation that affects human resources management practice. Ideal for an individual interested in human resources administration, this certificate prepares the student for "office work" with HR-benefits, compensation analyst, personnel officer, or HR assistant.

| | |
|---------------------------------------------|----------|
| Legal Aspects of Human Resources Management | HRMT5012 |
| Workplace Diversity | HRMT6002 |
| Advanced Legal Aspects | HRMT6011 |
| Labor Relations and Collective Bargaining | HRMT6021 |

Managing Information Technology and Change

Successful completion of this certificate will provide professionals with the skills to access, understand, develop, implement, and evaluate the new technology as well as develop the management skills of leading and managing the change effort in the organization.

| | |
|----------------------------------------------------|----------|
| Financial Analysis and Budgeting | HRMT5011 |
| Human Resources Information Systems | HRMT6000 |
| Planning and Implementing Change | HRMT6020 |
| Managing Information Technology & Change Processes | HRMT6034 |

Master of Science-Accounting

The Business Division in collaboration with the Accounting Department at La Roche College, have developed a Master of Science in Accounting. The program is tailored to meet the needs of the Accounting professional who is becoming more and more critical in businesses, both small and large. The 30-credit masters level Accounting Program will offer one of the few comprehensive, non-MBA, graduate Accounting programs in Western Pennsylvania.

It is our desire that students enrolled in the graduate program at La Roche will develop advanced accounting skills and techniques that can be put to use immediately to enhance their career and their competitiveness.



[Masters in Accounting Brochure](#)

[Masters of Science in Accounting Application](#)

The graduate program will prepare the accounting student for the challenges and issues within the complex and changing field of accounting. The program will prepare students to succeed by exploring advance topics such as international accounting, updates in SEC reporting and contemporary topics in taxation. Students will also have the opportunity to apply their coursework, accounting principles and techniques to a real organization in the Applied Research in Accounting course.

Upon successful completion of the Master of Science in Accounting, graduates will be prepared for successful careers in the accounting field, as well as provide the necessary preparation for CPA licensure.

OBJECTIVES:

- To provide students with sound theoretical background in the accounting field and develop professional competencies in advanced accounting, taxation, forensic accounting and advanced auditing.
- To provide students with the requisite specialized knowledge of advanced accounting principles and to do so in an ethical and responsible manner.
- To contribute to the profession of Accounting by preparing students for the CPA exam and/or requirements for licensure.

Admission Requirements:

- A baccalaureate degree in business, accounting or finance from an accredited college or university.

- Overall undergraduate grade point average (GPA) of 3.0 or better on a 4.0 scale. Applicants with less than a 3.0, who show extreme promise through other achievements, may be granted provisional admission with permission from the program chair. After six credits of graduate level coursework, these students will be reviewed and may be eligible for full admission after attaining a GPA of 3.0 or better.

- Prerequisite undergraduate courses include:
 1. Intermediate Accounting (LRC equivalent AC311 and AC312)
 2. Taxation I (LRC equivalent of AC301)
 3. Auditing (LRC equivalent of AC402)

A grade of a “C” or better is expected in these undergraduate prerequisites, otherwise the applicant will need to retake the prerequisite course(s) until their grade improves to a “C” or better. Applicants will not receive full acceptance into the program until prerequisite courses have been satisfactorily completed.

- Domestic and International students are required to submit GRE, GMAT or Millers Analogy test scores. Scores are considered official when sent by the testing center directly to our school. La Roche College's code is R2371. Test scores over 5 years old will not be considered.

GRE, GMAT and Millers test score requirements are as follows:

| Test Name | Minimum Scores |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| GRE | Combined Score:1000. Applicants must achieve minimum scores at the 25% percentile in both the verbal and quantitative sections of the GRE. |
| GMAT | 500 |
| Millers | 300 |

- Proficiency in written and oral communications, college level math, and computer usage including word processing, spreadsheets, databases, and the Internet are required.
- Official transcripts from all post secondary institutions attended, submitted in a sealed envelope by the degree-granting institution
- Students whose official transcripts are not in English will be required to submit translated transcripts. If this applies to you, please ask your university to provide two original transcripts. The first set of transcripts must remain in the sealed envelope. The second set of transcripts should be sent to an official translation agency for translation.
- Two letters of recommendation/reference
- Personal essay of Professional and Academic Goals
- Current Resume
- Completed and signed application form
- Payment of a non-refundable \$50 application fee
- Participation in a personal interview once your complete application is received
- If you fail to meet one or more of the above criteria, or feel your earned GPA or standardized test scores are not indicative of your ability to be successful in a graduate degree program, please submit additional documentation to augment your application portfolio. For example the Graduate Admissions Office may consider a professional certification such as the CPA, CMA or other comparable accounting certifications as part of your admissions application.
- Only those applicants who have submitted complete application packets will be considered for admittance into the Master of Science Accounting Program at La Roche College.

Required Courses: 30 credits

Ethics & Professional Responsibilities in Accounting
Modern Accounting Information Systems
The Business of Reading & Writing
Fraud Examination
Advanced Forensic Accounting
Wealth Management
Accounting for Not-for-Profit Entities
Contemporary Issues in Taxation
International Accounting
Applied Research
Design Division

ACCT5020
ACCT5035
ACCT5040
ACCT5050
ACCT6020
ACCT6050
ACCT6060
ACCT6080
ACCT6085
ACCT6099

La Roche Course Catalogue

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Design Division

Programs of Study

Majors

Graphic & Communication Design
Interior Design

BS
BSID

Minors

Visual Communication Minor
Design Division Detail

Other

Detail - Design Division

Graphic & Communication Design

[Graphic & Communication Design Department Website](#)

The Graphic & Communication Design Program prepares students for exciting careers in visual communication: graphic design, advertising, illustration, photography, typography, packaging, publication and multimedia. Grounded in the foundation principals and elements of design, the curriculum prepares students to meet the technological challenges of this fast-paced career through experiences in design software such as: the Adobe Creative Suite 3 (including InDesign, Photoshop and Illustrator), Flash, Dreamweaver, Final Cut and Quicktime Pro. The first two academic years, known as the Foundation Program, culminate with the Mid-Collegiate Review process (see below). The student then moves into the Professional Program, which emphasizes presentation opportunities, internships, team problem solving and professional portfolio development.

Mid-Collegiate Review

Prior to enrolling in upper level design courses, transfer students and students who have reached the mid-point (second semester of the sophomore year) in the Graphic & Communication Design Program, must pass a Mid-Collegiate Review. In an interview with the student, the faculty will assess the student's work from all foundation courses along with the student's motivation and attitude, presentation skills, career goals and academic record. The criteria for the review is fully outlined prior to the meeting, and the student will receive a written evaluation following the interview. As a result of the review process, the faculty will recommend that the student either: (1) continue in the Graphic & Communication Design Program, (2) continue in the program with recommendations (e.g. attend summer classes or complete individualized assignments), (3) continue in the program with requirements (e.g. take specified courses or attend summer classes), or (4) change majors before the next academic term. It will be the professional consensus of the faculty, and not simply individual grades, that will determine whether or not a student will be allowed to continue in the program.

To complete the Graphic & Communication Design Program successfully, the following coursework is required:

- 60 credits of Graphic & Communication Design Major Requirements, which includes a three-credit internship
- 18 credits of Graphic & Communication Design Major ElectivesNote: major elective courses are also available through an agreement with The Pittsburgh Filmmakers.
- 12 credits of Art History Requirements
- 34 credits of CORE Curriculum courses
- successful completion of Mid-Collegiate Review

A minimum of 124 credits is required for graduation, the last 30 of which must be earned at La Roche.

Academic Standards

Students must earn a grade of "C" or above in all Graphic & Communication Design major requirements to fulfill prerequisites and degree requirements. Grades below a "C", including "C-", will affect participation in portfolio reviews and advancement in the curriculum.

Course Rotation

Graphic & Communication Design courses are offered sequentially during the academic year and the summer as enrollment permits. Courses are also offered in the evening. Note: students will be unable to complete the program without taking courses during the day.

Internship Requirement

All students are required to complete a 3-credit internship during their junior or senior year.

Transfer Policy

Transfer students apply through the Office of Adult Education and Graduate Studies. Students applying with 12 or more credits of design-related coursework may be asked to present their work to a designated member of the Graphic & Communication Design faculty for evaluation and placement

in the curriculum. Placement is determined by the content of transferred credits in comparison with courses in the La Roche Graphic & Communication Design Foundation Program. Incoming transfer students need to be aware that additional semesters may be needed in order to meet the requirements of the curriculum. Additionally, all transfer students must sit for and pass the Mid-Collegiate Review before enrolling in upper-level design courses.

Graphic & Communication Design Major Requirements: 60 credits

| | |
|------------------------------------------|----------|
| Drawing I | GCDN1023 |
| Foundation Design I | GCDN1060 |
| Foundation Design II | GCDN1062 |
| Computer Graphics I | GCDN1070 |
| Computer Graphics II | GCDN1071 |
| Digital Publishing | GCDN2008 |
| Graphic Design Methodologies | GCDN2010 |
| Typography I | GCDN2012 |
| Digital Photography | GCDN2016 |
| Graphic Design I | GCDN2021 |
| Writing & Presenting for Designers | GCDN3010 |
| Digital Prepress & Printing | GCDN3026 |
| Graphic Design II | GCDN3031 |
| Graphic Design III | GCDN3041 |
| Multimedia II | GCDN3045 |
| Multimedia III | GCDN3046 |
| Design in Advertising | GCDN4041 |
| Graphic Design Internship I | GCDN4051 |
| Graphic Design IV: Senior Design Seminar | GCDN4055 |
| Portfolio Preparation | GCDN4058 |

Major Electives: 18 credits

| | |
|------------------------------------|----------|
| Digital Fine Arts | GCDN2005 |
| Multimedia I | GCDN2029 |
| Ad Illustration I | GCDN2038 |
| Word and Image | GCDN2040 |
| Photographic Lighting Techniques | GCDN2047 |
| Typography II | GCDN3022 |
| Publication Design | GCDN3051 |
| Environmental and Packaging Design | GCDN4010 |
| Advanced Computer Graphics | GCDN4050 |
| Graphic Design Internship II | GCDN4052 |
| Buyer Behavior | MRKT3012 |
| Marketing Strategy | MRKT4014 |

Requirement Art History: 12 credits

| | |
|------------------------------------------|----------|
| Art History I | ARTH1017 |
| History of Art II: Renaissance to Modern | ARTH1018 |
| History of Graphic Design | ARTH2002 |
| Contemporary Design | ARTH2045 |
| History of Film | ARTH3016 |

Interior Design

[Interior Design Department Website](#)

The La Roche College Interior Design Program believes that a successful interior design education enhances a student's innate creativity and interest in the built environment. An interior design education also effectively teaches the knowledge and skills needed to evolve holistic, thoughtfully conceived design solutions in response to humanity's aesthetic, emotional, and utilitarian design needs. The program's mission is to prepare students to perform as design professionals with a life-long desire to remain current in the profession and be advocates for design excellence, thereby promoting the importance of interior design to society.

This major prepares students for careers in commercial and residential interior design in large and small interior design and architecture firms, as well as industrial, commercial and institutional organizations. It also provides a solid foundation for students who wish to own a design firm or pursue a graduate degree in design. The interior design program fosters the transition to the professional world by requiring all majors to complete an internship experience in the field prior to graduation.

Entering interior design majors are required to purchase a laptop computer with software that is commonly used in the profession. Specific computer requirements for the 2011-2012 academic year can be viewed at <http://intranet.laroche.edu/sci/overview.cfm>. These requirements are updated annually in the summer.

The Council for Interior Design Accreditation has granted accreditation to the La Roche College Interior Design Program continuously since 1985. The College also holds National Association of Schools of Art and Design (NASAD) accreditation, which extends to the Interior Design program. Membership in the student chapter of the American Society of Interior Design (ASID) and in the International Interior Design Association (IIDA) is available to all design majors.

Interior Design Portfolio Review

To advance in the curriculum, Interior Design majors are required to present a portfolio of their work to the interior design faculty at two key points in their education:

1. Advisory Review

Students submit work for Advisory Review after completing IDSN1020, IDSN1021, and IDSN1062 with grades of "C" or above. Students may advance to IDSN2038a Interior Design II only after completing the Advisory Review process. Advisory Review results in one of three recommendations:

- to continue in interior design;

- to continue in interior design with stated reservations and recommended action; or
- to change majors before the next academic term

2. Conclusive Review

Students submit work for Conclusive Review after completing IDSN2038b and four of the following five courses with grades of "C" or above: IDSN1023, IDSN2015, IDSN2044, IDSN2045 and IDSN2046.

Exception: Students in the Three-Year Accelerated Curriculum must pass IDSN2038a and IDSN2038b and five of the following six courses with grades of "C" or above: IDSN1023, IDSN2015, IDSN2037, IDSN2044, IDSN2045, and IDSN3040.

Students may advance to IDSN3028a Interior Design III only after successfully completing the Conclusive Review process. Conclusive Review results in one of three decisions:

- student is invited to continue to major in interior design;
- student is required to repeat IDSN2038b Interior Design II the next semester, and submit work for Conclusive Review again (note: this option may only be offered once); or
- student is required to change majors before the beginning of the next term.

Students must earn a grade of "C" or above in all interior design major requirements to fulfill prerequisites and graduation requirements. Grades below a "C" may delay participation in portfolio reviews and advancement in the curriculum.

Interior design courses are offered during summer session as enrollment permits. Courses also are offered in the evening, but students are unable to complete the program without taking courses during the day.

The program is technically a four-and-one-half year curriculum because a student must earn a minimum of 133 credit hours to attain a Bachelor of Science in Interior Design (BSID) degree, with the last 30 credit hours earned at La Roche College. The following course work is required:

- 78 credits of interior design major requirements
- 15 credits of interior design major electives; in addition to the courses shown below, students may select electives from Graphic & Communication Design. Six of the 15 credits are business-related electives; options include accounting, advertising, management, marketing, and finance
- 34 credits of college core requirements
- 3 credits of general electives

To complete the curriculum in four years, students must attend summer school or carry more than 15 hours a semester. (See Semester Credit Maximum for the College policy on overload.)

A Five-Year Extended Curriculum has been created for students who wish to pursue a minor (e.g., psychology, management, visual communications, etc.) or for those who enter with test scores that indicate an extended curriculum would be beneficial. Additionally, a Three-Year Accelerated Curriculum has been developed for mature students who transfer a significant number of credits (generally 30 or more) from another institution. Admittance into the Three-Year Accelerated Curriculum is by invitation only. All curriculum alternatives include the same interior design course work. Information about these various ways of completing the curriculum is available in the Interior Design Department.

Requirements:

In fulfilling the 78 credits of major requirements, students choose either ARTH1018 or another approved ARTH course.

Interior Design Major Requirements: 78 credits

| | |
|----------------------------------------------------------|----------|
| History of Art II: Renaissance to Modern | ARTH1018 |
| Interior Design Graphics I | IDSN1011 |
| Interior Design I | IDSN1020 |
| Interior Design Graphics II | IDSN1021 |
| Drawing I | IDSN1023 |
| Foundation Design I | IDSN1060 |
| Foundation Design II | IDSN1062 |
| Computer Graphics for Interior Design | IDSN2015 |
| History of Interior Design and Architecture I | IDSN2032 |
| Textiles for Interiors | IDSN2037 |
| Interior Design II (A and B) | IDSN2038 |
| History of Interior Design and Architecture II | IDSN2039 |
| Building Technology I: Construction Systems | IDSN2044 |
| Architectural Rendering | IDSN2045 |
| Building Technology II: Finish Materials | IDSN2046 |
| Interior Design III (A and B) | IDSN3028 |
| History of Interior Design and Architecture III | IDSN3032 |
| Building Technology III: Lighting and Electrical Systems | IDSN3040 |
| Building Technology IV: Control Systems | IDSN3041 |
| Business Practices for Interior Design | IDSN4041 |
| Contract Documents | IDSN4042 |
| Interior Design Internship I | IDSN4051 |
| Senior Design Seminar I | IDSN4059 |
| Senior Design Seminar II | IDSN4060 |

Interior Design-Related Electives: 9 credits

| | |
|-------------------------------------------|----------|
| Art History Elective | ARTHXXXX |
| Design Elective | GCDNXXXX |
| Photography for Interiors | IDSN2035 |
| Furniture & Custom Detailing | IDSN2048 |
| Directed Study | IDSN2050 |
| Study of Great American Houses | IDSN3015 |
| Kitchen and Bath Design | IDSN3055 |
| Advanced Ideas Seminar in Interior Design | IDSN3059 |
| Directed Professional Experience | IDSN4000 |

Special Computer Topics in Interior Design
Independent Study
Portfolio Preparation

IDSN4050
IDSN4057
IDSN4058

Visual Communication Minor

A minor in Visual Communication will provide experiences directed toward the development of visual literacy: creative problem-solving and the design process, graphic techniques, visual language systems and the organization of visual elements. Especially useful to those students majoring in Marketing or Professional Writing, the Visual Communication minor will provide a practical mix of experiences complementing both verbal and visual communication.

The minor must be completed within the student's graduation timetable.

The Visual Communication minor is available to all students except those pursuing the Graphic & Communication Design degree.

A minimum of 18 credits, 6 courses, must be chosen from either of the following two sequences of art/design studio courses and MAC-based digital courses.

Sequence A: Design Studio - Choose 9 credits

| | |
|----------------------|----------|
| The Creative Process | COMM4038 |
| Drawing I | GCDN1023 |
| Foundation Design I | GCDN1060 |
| Foundation Design II | GCDN1062 |
| Digital Photography | GCDN2016 |

Sequence B: MAC-based digital courses - 9 credits

| | |
|---------------------------------------|----------|
| Fundamentals of Electronic Publishing | GCDN1025 |
| Computer Graphics I | GCDN1070 |
| Computer Graphics II | GCDN1071 |
| Multimedia I | GCDN2029 |
| Digital Prepress & Printing | GCDN3026 |
| Education & Nursing Division | |

La Roche Course Catalogue

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Education & Nursing Division

Programs of Study

Majors

| | |
|----------------------------------------------------------------------------|-----------|
| Elementary Education | BA |
| Middle Level Education: English/Language Arts and Reading | BA |
| Middle Level Education: Mathematics | BA |
| Middle Level Education: Science | BA |
| Middle Level Education: Social Studies | BA |
| Middle Level Social Studies Education with Dual Major in History | BA |
| Middle Level Social Studies Education with Dual Major in Political Science | BA |
| Nursing - Associate of Science | Associate |
| Nursing - RN / BSN Degree Completion Program | BSN |
| Nursing LPN / ASN | Associate |
| PreK-4 Teacher Education/Special Education | BA |

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
Education & Nursing Division Detail

Detail - Education & Nursing Division

Elementary Education

[Education Department Website](#)

This program prepares the student for a career as an elementary teacher. Students must meet all of the competency standards set by The Pennsylvania Department of Education. They must also pass the Praxis Tests for teachers. Students must maintain the following QPA requirements: For academic year 2001-2002, candidates for admission must have a 3.0 GPA to enter the program and a 3.0 GPA to complete (exit) the program and be recommended for certification.

The following coursework is required for the degree:

- 24 credits of Major Requirements
- 56 credits of Education Component Courses
- 40 credits of CORE Curriculum courses

A minimum of 120 credits are required for the degree, the last 30 of which must be earned at La Roche College.

Disclaimer: The State of Pennsylvania is in the process of changing its education certification programs. Students planning to graduate by August 2013 should follow this program guide for Elementary Education (K-6). Students with graduation dates after August 2013 should speak with a LRC Education Advisor.

Education Component: 56 credits

| | |
|----------------------------------------------------------|-----------|
| Introduction to High Incidence Disabilities | EDSP2010 |
| Program/Classroom Management | EDSP2020 |
| Methods and Practicum | EDSP3010 |
| Foundations of Education & Field Experience | EDUC2010 |
| Methods of Teaching Art | ELED3021A |
| Methods of Teaching Music | ELED3022A |
| Teaching Reading & Language Arts | ELED3040 |
| Teaching Reading and Language Arts Practicum | ELED3041 |
| Methods of Teaching Science and Health | ELED4020 |
| Methods of Teaching Social Studies | ELED4030 |
| Methods of Teaching Social Studies | ELED4030 |
| Methods of Teaching Math | ELED4040 |
| Teaching Math Practicum | ELED4040B |
| Integrating Technology In The Elementary Curriculum | ELED4052 |
| Primary Student Teaching | ELED4054 |
| Intermediate Student Teaching | ELED4055 |
| English Language Learners in the Multicultural Classroom | MLED2000 |
| Child Development | PSYC2022 |
| Educational Psychology | PSYC2061 |

Major Requirements: 24 credits

| | |
|---------------------------------------------|----------|
| American English: Its History & Development | ENGL3033 |
| Probability and Statistics | MATH1040 |
| The Natural Sciences | NSCI1001 |
| Nutrition | NSCI1010 |
| Logic | PHIL1020 |
| Modern Public Speaking | SPCH1001 |

Major Requirements: 24 Credits (Select one GEO course)

| | |
|-----------------------------------------|---------------|
| Cultural Geography and the Human Mosaic | GEOG/INST3010 |
| Geography and World Affairs | GEOG3013 |

Major Requirements: 24 Credits (Select one HS course)

| | |
|-------------------------------------------------------------|----------|
| U.S. History: The Foundation of a Republic (1600-1865) | HIST1010 |
| U.S. History: The Emergence of a Mass Democracy (1865-1945) | HIST1011 |

Middle Level Education: English/Language Arts and Reading

A major in Middle Level English/Language Arts and Reading is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach the English/Language Arts and Reading content area at the 7th-8th grade level. For state certification, students must meet all competency standards set by the Pennsylvania Department of Education.

To successfully complete the Middle Level English/Language Arts and Reading Certification major, the following coursework is required:

- 40 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 127 credits are required for degree, the last 30 of which must be earned at La Roche College. Developmental coursework does not count towards the minimum number of credits required for graduation.

Education Requirements: 47 credits

| | |
|--------------------------------------------|----------|
| ML Teaching Science Methods Lab | EDML2010 |
| ML Teaching Mathematics Methods Lab | EDML2023 |
| Developing Reading Communities | EDML3010 |
| ML Teaching Social Studies Methods Lab | EDML3013 |
| Reading and Writing Across the Disciplines | EDML3050 |
| Advanced Teaching Methods for Middle Level | EDML4010 |

| | |
|--------------------------------------------------------------------------------------|----------|
| ML Student Teaching (Grades 4-6) | EDML4050 |
| ML Student Teaching (Grades 7-8) | EDML4055 |
| Introduction to High Incidence Disabilities, Accommodations and Adaptations | EDSP2015 |
| Learning Environments, Classroom Behavior Management, Accommodations and Adaptations | EDSP2025 |
| Evaluation and Authentic Assessment within a Standards Aligned System | EDSP3040 |
| Development of the IEP and Inclusion in Least Restrictive Environment | EDSP4015 |
| Introduction to Education | EDUC1010 |
| Introduction to Psychology | PSYC1021 |
| Adolescence Psychology | PSYC2040 |
| Educational Psychology | PSYC2061 |

Major Requirements: 40 credits

| | |
|------------------------------------------------------|----------|
| Macroeconomics | ADMG1005 |
| Life Science | BIOL1001 |
| Methods of Teaching Writing: Composition | ENGL1050 |
| Introduction to Literary Study | ENGL2010 |
| World Literature I | ENGL2021 |
| Issues in American Literature I | ENGL2036 |
| Shakespeare on Film | ENGL3021 |
| Geography and World Affairs | GEOG3013 |
| Probability and Statistics | MATH1040 |
| Mathematics for the Liberal Arts | MATH2000 |
| Geometry and Measurement | MATH2023 |
| Geology | NSCI2045 |
| Introduction to American Government | POLI1022 |
| Introduction to Physical Science: Let's Get Physical | SLSC1006 |

Middle Level Education: Mathematics

A major in Middle Level Mathematics is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach mathematics at the 7th-8th grade level.

To successfully complete the Mathematics Certification major, the following coursework must be completed:

- 41 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 128 credits are required for degree, the last 30 of which must be completed at La Roche College. Developmental coursework does not count toward the minimum number of required credits for graduation.

Education Requirements: 47 credits

| | |
|--------------------------------------------------------------------------------------|----------|
| ML Teaching Science Methods Lab | EDML2010 |
| ML Teaching Mathematics Methods Lab | EDML2023 |
| Developing Reading Communities | EDML3010 |
| ML Teaching Social Studies Methods Lab | EDML3013 |
| Reading and Writing Across the Disciplines | EDML3050 |
| Advanced Teaching Methods for Middle Level | EDML4010 |
| ML Student Teaching (Grades 4-6) | EDML4050 |
| ML Student Teaching (Grades 7-8) | EDML4055 |
| Introduction to High Incidence Disabilities, Accommodations and Adaptations | EDSP2015 |
| Learning Environments, Classroom Behavior Management, Accommodations and Adaptations | EDSP2025 |
| Evaluation and Authentic Assessment within a Standards Aligned System | EDSP3040 |
| Development of the IEP and Inclusion in Least Restrictive Environment | EDSP4015 |
| Introduction to Education | EDUC1010 |
| Introduction to Psychology | PSYC1021 |
| Adolescence Psychology | PSYC2040 |
| Educational Psychology | PSYC2061 |

Major Requirements: 41 credits

| | |
|------------------------------------------------------|----------|
| Macroeconomics | ADMG1005 |
| Life Science | BIOL1001 |
| Geography and World Affairs | GEOG3013 |
| Trigonometry | MATH1023 |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Mathematics for the Liberal Arts | MATH2000 |
| Geometry and Measurement | MATH2023 |
| Discrete Mathematics I | MATH2050 |
| Geology | NSCI2045 |
| Introduction to American Government | POLI1022 |
| Introduction to Physical Science: Let's Get Physical | SLSC1006 |

Middle Level Education: Science

A major in Middle Level Science is meant to prepare students for a career as highly qualified teacher education candidates skilled to teach any core subject at the 4th-6th grade level and skilled to teach Science content at the 7th-8th grade level. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education.

To successfully complete the Middle Level Science Certification major, the following coursework is required:

- 45 credits of Major Requirements
- 47 credits of Education Requirements
- 37 CORE credits
- A minimum of 129 credits are required for degree, the last 30 of which must be completed at La Roche College. Developmental coursework does not count towards the minimum number of credits required for graduation.

Education Requirements: 47 credits

| | |
|--------------------------------------------------------------------------------------|----------|
| ML Teaching Science Methods Lab | EDML2010 |
| ML Teaching Mathematics Methods Lab | EDML2023 |
| Developing Reading Communities | EDML3010 |
| ML Teaching Social Studies Methods Lab | EDML3013 |
| Reading and Writing Across the Disciplines | EDML3050 |
| Advanced Teaching Methods for Middle Level | EDML4010 |
| ML Student Teaching (Grades 4-6) | EDML4050 |
| ML Student Teaching (Grades 7-8) | EDML4055 |
| Introduction to High Incidence Disabilities, Accommodations and Adaptations | EDSP2015 |
| Learning Environments, Classroom Behavior Management, Accommodations and Adaptations | EDSP2025 |
| Evaluation and Authentic Assessment within a Standards Aligned System | EDSP3040 |
| Development of the IEP and Inclusion in Least Restrictive Environment | EDSP4015 |
| Introduction to Education | EDUC1010 |
| Introduction to Psychology | PSYC1021 |
| Adolescence Psychology | PSYC2040 |
| Educational Psychology | PSYC2061 |

Major Requirements: 45 credits

| | |
|---------------------------------------|-----------|
| Macroeconomics | ADMG1005 |
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| General Ecology | BIOL3015 |
| General Ecology-Lab | BIOL3015L |
| Principles of Chemistry I | CHEM1007 |
| Principles of Chemistry I Laboratory | CHEM1008 |
| Principles of Chemistry II | CHEM1017 |
| Principles of Chemistry II Laboratory | CHEM1018 |
| Geography and World Affairs | GEOG3013 |
| Probability and Statistics | MATH1040 |
| Mathematics for the Liberal Arts | MATH2000 |
| Geometry and Measurement | MATH2023 |
| Geology | NSCI2045 |
| Physics for Health Sciences | PHYS1010 |
| Physics for Health Science Laboratory | PHYS1010L |
| Introduction to American Government | POLI1022 |

Middle Level Education: Social Studies

A major in Middle Level Social Studies is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach Social Studies at the 7th-8th grade level. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education.

To successfully complete the Middle Level Social Studies Certification major, the following coursework is required:

- 39 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 126 credits are required for a degree, the last 30 of which must be completed at La Roche College. Developmental coursework does not count towards the required number of credits for graduation.

Education Requirements: 47 credits

| | |
|--------------------------------------------------------------------------------------|----------|
| ML Teaching Science Methods Lab | EDML2010 |
| ML Teaching Mathematics Methods Lab | EDML2023 |
| Developing Reading Communities | EDML3010 |
| ML Teaching Social Studies Methods Lab | EDML3013 |
| Reading and Writing Across the Disciplines | EDML3050 |
| Advanced Teaching Methods for Middle Level | EDML4010 |
| ML Student Teaching (Grades 4-6) | EDML4050 |
| ML Student Teaching (Grades 7-8) | EDML4055 |
| Introduction to High Incidence Disabilities, Accommodations and Adaptations | EDSP2015 |
| Learning Environments, Classroom Behavior Management, Accommodations and Adaptations | EDSP2025 |
| Evaluation and Authentic Assessment within a Standards Aligned System | EDSP3040 |
| Development of the IEP and Inclusion in Least Restrictive Environment | EDSP4015 |
| Introduction to Education | EDUC1010 |
| Introduction to Psychology | PSYC1021 |

Adolescence Psychology
Educational Psychology

PSYC2040
PSYC2061

Major Requirements: 39 credits

| | |
|--------------------------------------------------------|------------------|
| Macroeconomics | ADMG1005 |
| Life Science | BIOL1001 |
| Geography and World Affairs | GEOG3013 |
| U.S. History: The Foundation of a Republic (1600-1865) | HIST1010 |
| Non-US History 2000 or 3000 level course | HIST2XXX OR 3XXX |
| Non-US History 2000 or 3000 level course | HIST2XXX OR 3XXX |
| 2000-3000 Level History(HS) Course | HISTXXXX |
| Probability and Statistics | MATH1040 |
| Mathematics for the Liberal Arts | MATH2000 |
| Geometry and Measurement | MATH2023 |
| Geology | NSCI2045 |
| Introduction to American Government | POLI1022 |
| Introduction to Physical Science: Let's Get Physical | SLSC1006 |

Middle Level Social Studies Education with Dual Major in History

A dual major in Middle Level Social Studies and History is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach Social Studies content area in the 7th-8th grade level. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education. In addition to the required courses for the Middle Level Social Studies certification, students can complete nine more credits to receive a dual major with History. Students then elect to pursue secondary teaching certification (7th-12th grade) in History.

To complete a dual major with History and Middle Level Social Studies Certification, the following coursework is required:

- 48 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 135 credits are required for degree, the last 30 of which must be earned at La Roche College

Education Requirements: 47 credits

| | |
|--------------------------------------------------------------------------------------|----------|
| ML Teaching Science Methods Lab | EDML2010 |
| ML Teaching Mathematics Methods Lab | EDML2023 |
| Developing Reading Communities | EDML3010 |
| ML Teaching Social Studies Methods Lab | EDML3013 |
| Reading and Writing Across the Disciplines | EDML3050 |
| Advanced Teaching Methods for Middle Level | EDML4010 |
| ML Student Teaching (Grades 4-6) | EDML4050 |
| ML Student Teaching (Grades 7-8) | EDML4055 |
| Introduction to High Incidence Disabilities, Accommodations and Adaptations | EDSP2015 |
| Learning Environments, Classroom Behavior Management, Accommodations and Adaptations | EDSP2025 |
| Evaluation and Authentic Assessment within a Standards Aligned System | EDSP3040 |
| Development of the IEP and Inclusion in Least Restrictive Environment | EDSP4015 |
| Introduction to Education | EDUC1010 |
| Introduction to Psychology | PSYC1021 |
| Educational Psychology | PSYC2061 |

Major Requirements: 48 credits (Includes 12 credits of 2000 or 3000 level History electives- 6 credits US History and 6 credits Non-US History)

| | |
|--------------------------------------------------------|----------|
| Macroeconomics | ADMG1005 |
| Life Science | BIOL1001 |
| Geography and World Affairs | GEOG3013 |
| U.S. History: The Foundation of a Republic (1600-1865) | HIST1010 |
| Western Civilization I | HIST1013 |
| History Seminar | HIST4055 |
| Probability and Statistics | MATH1040 |
| Mathematics for the Liberal Arts | MATH2000 |
| Geometry and Measurement | MATH2023 |
| Geology | NSCI2045 |
| Introduction to American Government | POLI1022 |
| Introduction to Physical Science: Let's Get Physical | SLSC1006 |

Middle Level Social Studies Education with Dual Major in Political Science

A dual major in Middle Level Social Studies and Political Science is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach Social Studies content area in the 7th-8th grade level. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education. In addition to the required courses for Middle Level Social Studies certifications, students can complete nine more credits to receive a dual major with Political Science. Students may elect to pursue secondary teaching certification (7th-12th grade) in Social Studies content areas.

To successfully complete a dual major with Political Science and Middle Level Social Studies Certification, the following coursework is required:

- 48 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 135 credits are required for degree, the last 30 of which must be earned at La Roche College.


Education Requirements: 47 credits

| | |
|--------------------------------------------------------------------------------------|----------|
| ML Teaching Science Methods Lab | EDML2010 |
| ML Teaching Mathematics Methods Lab | EDML2023 |
| Developing Reading Communities | EDML3010 |
| ML Teaching Social Studies Methods Lab | EDML3013 |
| Reading and Writing Across the Disciplines | EDML3050 |
| Advanced Teaching Methods for Middle Level | EDML4010 |
| ML Student Teaching (Grades 4-6) | EDML4050 |
| ML Student Teaching (Grades 7-8) | EDML4055 |
| Introduction to High Incidence Disabilities, Accommodations and Adaptations | EDSP2015 |
| Learning Environments, Classroom Behavior Management, Accommodations and Adaptations | EDSP2025 |
| Evaluation and Authentic Assessment within a Standards Aligned System | EDSP3040 |
| Development of the IEP and Inclusion in Least Restrictive Environment | EDSP4015 |
| Introduction to Education | EDUC1010 |
| Introduction to Psychology | PSYC1021 |
| Educational Psychology | PSYC2061 |

Major Requirements: 48 credits (Includes 1 HIST or POLI course from the "American" section and 2 HIST or POLI courses from the "Comparative" section of the Political Science Major Program Guide)

| | |
|--------------------------------------------------------|---------------|
| Macroeconomics | ADMG1005 |
| Life Science | BIOL1001 |
| Geography and World Affairs | GEOG3013 |
| U.S. History: The Foundation of a Republic (1600-1865) | HIST1010 |
| Probability and Statistics | MATH1040 |
| Mathematics for the Liberal Arts | MATH2000 |
| Geometry and Measurement | MATH2023 |
| Geology | NSCI2045 |
| Comparative Government | POLI/INST3021 |
| Introduction to American Government | POLI1022 |
| History of Political Thought | POLI3015 |
| Any Approved Political Science Course | POLIXXXX |
| Introduction to Physical Science: Let's Get Physical | SLSC1006 |

Nursing - Associate of Science[Nursing Department Website](#)

The Associate of Science in Nursing (ASN) Program at La Roche College provides a pathway for students who want to become registered nurses. The Department of Nursing faculty have developed a curriculum that will give students the theoretical and practical knowledge they will need to work in a variety of health care settings, including hospitals, clinics, community health care sites and other facilities. Faculty believe that the curriculum of this nursing program will prepare graduates to serve as entry level staff nurses within the health care community.  [ASN Student Handbook - Fall 2011-12](#)

PURPOSE

The purpose and philosophy of the ASN program are consistent with the mission of the college and philosophy and goals of the nursing division.

Nursing is a profession in evolution concerned with the health care of persons and their families within the larger context of community and society. Currently, nursing care needs are addressed by nurses at a variety of levels of educational preparation.

The purpose of this ASN program is to prepare graduates to sit for the NLCEX-RN and to perform as entry level nurse generalists in a variety of settings. Graduates are provided the knowledge base for continued professional growth.

Retention of Nursing Students

In order to continue in the Nursing program, students must maintain a minimum cumulative GPA of 2.0.

A grade of "C" or better is required in all nursing courses (at least 73%).

A grade of "C" or better is required in the following support courses: BIOL1023 & 1024 (Anatomy and Physiology I & II), BIOL1015 (Microbiology for Health Sciences), NSCI1010 (Normal & Clinical Nutrition)

Requirements for Admission to the Nursing Program

The applicant interested in entering the Nursing program must meet the following requirements and submit all the requested materials at one time to the appropriate admissions office by May 1.

1. ASN admission requirements for any student without prior college credits. Applicants would need to apply directly to Freshman Admissions.

Applicants must meet the following eligibility criteria:

a. An official high school transcript or proof of General Equivalency Diploma (GED) high school equivalency.

b. successful completion of a minimum of 16 Units including

4 units of English

1 Unit in Biology with related laboratory

3 Units in Social Science

- 1 Unit in Chemistry with related laboratory
- 2 Units in Mathematics
- 5 Units in academic electives
- 1 Unit must be in Algebra

c. Applicants from high school must have a minimum 3.25 grade point average (on a 4.0 scale)

d. Students who have graduated from high school within five years of application date must have an SAT minimum composite score of 1000 (a minimum SAT verbal of 500 preferred) or an ACT score of 23. A student who has graduated from high school over five years from the date of his/her La Roche College application will not be required to take the SAT or ACT.

e. Completion of the TEAS exam (Test of Essential Academic Skills) with required score. Each applicant is permitted to take this exam only one time in order to be considered for admission. For an explanation of the TEAS exam and registration, [CLICK HERE](#)

f. Mathematics and English classes will depend on placement testing scores and high school GPAs. Placement exams will be waived if the applicant has a bachelor's degree or associate's degree with a minimum GPA of 3.0

g. Completion of chemistry is required prior to acceptance to the Nursing Program. Acceptable chemistry courses include one unit of high school chemistry with a grade of "B" or better or a grade of "C" or better in a four hour college chemistry course (CHEM1001/CHEM1003 or equivalent). Any chemistry course must have been taken within ten years of application date to La Roche College. If it has been more than ten years, a chemistry course must be taken prior to admission to the program. The prerequisite of chemistry may be waived for the applicant with a degree in science or health related fields, as determined by the Nursing Department.

2. ASN admission requirements for transfer and adult students. Applicants would need to apply directly to The Graduate Studies and Adult Education Office. Applicants must meet the following eligibility criteria:

a. Transfer or adult students must have a minimum cumulative GPA of 3.0 from a transfer institution.

b. Applicants must have achieved a passing grade of a "C" or better in all related science courses.

c. Applicants must have achieved a grade of a "B" or better in a high school chemistry course or a grade of a "C" or better in a college chemistry course (within the last 10 years) or completion of ABC Chemistry with a grade of at least a "B".

d. Transfer credits taken in the sciences BIOL1023 and BIOL1024 (Anatomy and Physiology I and II), BIOL1015 (Microbiology for Health Sciences), and NSCI1025 (Normal and Clinical Nutrition) must be taken within the last five years at the time of application to meet the requirements for the Associate of Science in Nursing degree.

e. Completion of the TEAS (Test of Essential Academic Skills) with required score. Each applicant is permitted to take this exam only one time in order to be considered for admission. For an explanation of the TEAS exam and registration, [CLICK HERE](#)

****Nursing Courses from other programs will not be accepted as transfer credits.**

3. Advanced Standing for the Licensed Practical Nurse: Applicants would need to apply directly to the Graduate Studies and Adult Education Office. Applicants must meet the following eligibility criteria:

a. Candidates must have graduated from an NLNAC approved practical nursing program with a minimum of a "C" or better in all courses

b. Have a minimum of one year clinical LPN experience in acute or long term care within the last five years (requires verification from employer) prior to application admission.

c. Completion of the following prerequisites with a grade of "C" or better: Anatomy and Physiology I and II, Microbiology for Health Sciences, and Clinical Nutrition.

d. Completion of chemistry prior to acceptance to the Nursing Program. Acceptable chemistry courses include one unit of high school chemistry with a grade of "B" or better or a grade of "C" or better in a four hour college chemistry course (CHEM1001/CHEM1003 or equivalent). Any chemistry course must have been taken within ten years of application date to La Roche College. If it has been more than ten years, a chemistry course must be taken prior to admission into the program. The prerequisite of chemistry may be waived for the applicant with a degree in science or health related fields, as determined by the Nursing Department.

e. A copy of the applicant's current license in good standing to practice in Pennsylvania and an official transcript from the practical nursing program must be submitted.

f. Licensed Practical Nurses must successfully complete NURU2005: LPN to RN Transition course.

g. Completion of the TEAS (Test of Essential Academic Skills) with required score. Each applicant is permitted to take this exam only one time in order to be considered for admission. For an explanation of the TEAS exam and registration, [CLICK HERE](#)

4. International Students: Applicants would need to apply directly to the Graduate Studies and Adult Education Office. Applicants must meet the following criteria:

a. Students are admitted as "Undeclared Major"

b. Completed college placement and ESL (confirmation in writing from ESL faculty that student has completed all ESL requirements).

c. Applicants must have achieved a grade of "B" or better in a high school chemistry course or a grade of "C" or better in a college chemistry course (within the last ten years) or completion of ABC Chemistry with a grade of at least a "B".

d. Completion of the TEAS exam (Test of Essential Academic Skills) with required score. Each applicant is permitted to take this exam only one time in order to be considered for admission. For an explanation of the TEAS exam and registration, [CLICK HERE](#)

Admissions Processes (For All Students)

Initial admission to the nursing program is in the **Fall Semester** only. All applications for the Nursing program must be received by May 1. Applications received after the deadline may be considered on an individual basis with exceptional circumstances.

The applicant must meet all admission requirements as stated and the following materials must be submitted for review:

Completed La Roche College Application

Application Fee
 High School/College/Nursing program transcripts (as applicable)
 Results of TEAS exam
 Two letters of reference
 Personal Essay: "Why I want to be a nurse?"
 CPR Certification (LPN advanced standing student)

Once accepted into the Associate of Science in nursing program, students must meet the health requirements before enrolling in any nursing courses. The health requirement forms will be sent to prospective students with their acceptance letter.

The health requirements include:

1. A physical examination is required. For patient safety, clinical facilities utilized by the Department of Nursing require proof of a satisfactory physical exam and current proof of immunizations. For assurance of patient safety, an initial drug screen is required and a random drug screen may be required at any point during the program.
2. An FBI and criminal background check are both required*
3. Child Abuse clearance is required*
4. Serum Drug Screening is required*
5. The applicant must submit documentation of the following:

Annual TB skin test (an initial two step skin test), if positive then a chest x-ray is required
 Hepatitis B vaccine and immune status or evidence of initiation of series
 Hepatitis C immune status
 Documented history of Varicella or Varicella titer
 MMR immunization/Rubella Titer
 Tdap (Tetanus, Diphtheria, and Pertussis)Vaccine
 Any other diagnostic tests or examinations, which are deemed for the promotion of good health by a health care provider.
 Students are encouraged to obtain the influenza immunization

****[Click here for link to background check instructions](#)**

Once all documentation is obtained, all forms should be returned to nursing department staff/faculty.

Students who fail to provide written documentation of the mandatory health requirements will not be permitted in any clinical area.

Faculty reserve the right to recommend a student's withdrawal from the program for reasons of health.

Each student is responsible for:

Personal health insurance coverage
 Maintenance of good health practices and utilizing preventative care in common illnesses
 Reporting any health concern to the Department of Nursing (including pregnancy) that could affect personal or client health safety.

Year I - Fall Semester

| | |
|----------------------------------|----------|
| Microbiology for Health Sciences | BIOL1015 |
| Anatomy & Physiology I | BIOL1023 |
| Practical Computer Applications | ISTC1005 |
| Introduction to Nursing | NURU1000 |
| Foundations of Clinical Nursing | NURU1005 |

Year I - Spring Semester

| | |
|---------------------------------------|----------|
| Anatomy & Physiology II | BIOL1024 |
| Normal and Clinical Nutrition | NSCI1025 |
| Medical-Surgical Nursing of the Adult | NURU2000 |
| Principles of Pharmacology | NURU2020 |

Year I - Summer Semester

| | |
|----------------------------|----------|
| College Writing I | ENGL1011 |
| Mental Health Nursing | NURU2010 |
| Introduction to Psychology | PSYC1021 |

Year II - Fall Semester

| | |
|-----------------------------------------|----------|
| College Writing II | ENGL1012 |
| Childbearing and Women's Health Nursing | NURU2012 |
| Nursing of Children | NURU2015 |
| Medical-Surgical Nursing of Adult II | NURUXXXX |

Year II - Spring Semester

| | |
|-------------------------------------------------------|----------|
| High Acuity Nursing | NURU2025 |
| A Cognitive Approach to Clinical Reasoning in Nursing | NURU2027 |
| Nursing Leadership | NURU2030 |
| Introduction to Philosophy | PHIL1021 |

Nursing - RN / BSN Degree Completion Program

[Nursing Department Website](#)

The baccalaureate program is designed to offer registered nurse students (graduates from diploma and associate degree programs) the opportunity to complete a professional degree that focuses on the scholarly approach to the discipline of nursing. This is an 18-month **online** program. The baccalaureate program provides a foundation for graduate education in nursing. The bachelor of science degree program for registered nurses is accredited by the National League of Nursing Accrediting Commission (NLNAC), 3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326, 404-975-5000, (www.nlnac.org).

The objectives of this program are to insure that graduates will be able to:

1. Incorporate knowledge from the liberal arts, sciences, and nursing as the basis for nursing practice in developing and providing care that is culturally competent, fiscally responsible and socially relevant.
2. Integrate nursing research and evidence-based practice into professional nursing
3. Promote competent nursing care at all levels of prevention across the health care continuum
4. Examine the role of the professional nurse in providing leadership for nursing practices as a member of the healthcare community
5. Utilize information technology to manage knowledge, communicate information and facilitate decision making in nursing practice
6. Integrate legal, ethical and professional values within the role of the BSN-prepared nurse
7. Analyze the role of nurse as advocate in working with clients, families and the profession through involvement in political process, and health care/client care policies and practices

Philosophy of the Nursing DepartmentThe philosophy of the Department of Nursing is derived from and is consistent with the mission, objectives and values of the College. The Department philosophy focuses on faculty beliefs about the person, environment, health, nursing, and education. The faculty supports the American Nurses Association (ANA) definition of nursing. "Nursing is the protection, promotion, and optimization of health and abilities, prevention of illness and injury, alleviation of suffering through the diagnosis and treatment of human response, and advocacy in the care of individuals, families, communities, and populations."

Each person is a unique integration of physiological, psychological, social-cultural, developmental, and spiritual dimensions in continuous interaction with the environment. Each person has the right to respect, dignity, and self-determination. The person, as an individual, and as a member of a family, group, local or global community, is the central focus of nursing.

The environment includes socio-cultural, political, technological, and economical factors that are constantly changing forming a complex context for the nursing practice. Nursing has the responsibility to assist individuals to adapt to the changing environment just as nursing as a profession must adapt and grow within this complex context for nursing practice. Nursing includes promoting health, preventing illness, restoring health, and caring for the dying. Nurses provide ethical care utilizing critical thinking through application of the nursing process to provide comprehensive, individualized care. Nurses enact multiple roles of caregiver, teacher, advocate, leader, researcher, and manager. Nurses integrate evidence and research findings into practice appropriate to the level of education and position.

Education is an active process in which students are encouraged in developing patterns of critical thinking and the ability to make discriminatory judgments. This intellectual framework fosters a teaching-learning process where knowledge, skills and attitudes are shared in an environment of inquiry and positive growth. This framework posits teacher as leader in the educational enterprise by planning opportunities for learning in light of identified goals. Students, in concert with teachers, bear responsibility for their own learning.

Associate Degree Program

Education at the Associate Degree level focuses on the development of science-based nursing knowledge and professional skills required to make safe evidenced based judgments for care, advocate for patients and families, develop the professional image and self, question underlying assumptions in care and offer new insights into improvement of care across the lifespan and in various health care settings. Upon graduation from the program, students are prepared to sit for the NCLEX examination. The Associate degree education is an entry level into the profession of nursing. ASN graduates are generalists in nursing.

RN-BSN Degree Program

Education at the Baccalaureate Degree level focuses on the incorporation of science-based nursing knowledge and professional skill required to assist patient, families, and communities to progress toward fulfillment of human potential. Baccalaureate prepared nurses utilize evidenced based practice to provide quality care, promotion of health, demonstrate professional identity and leadership, and act as an evolving scholar. Baccalaureate education is based in liberal education and integrates nursing with the humanities as well as the behavioral and the social sciences.

The purpose of the RN-BSN program is to expand the knowledge base and scope of practice of the ASN/Diploma prepared RN. The RN-BSN completion program expands the practice and knowledge base rooted in nursing science and liberal arts. The program is committed to and places emphasis on scholarship, evidence-based practice and leadership in a rapidly changing, complex environment. The RN-BSN completion program prepares graduates to practice professional nursing in partnership with individuals, families, communities and populations to promote and restore health and prevent illness, locally and globally. Graduates of the program are generalists with the foundation for graduate education and continuing professional development.

Master's Degree Program

Education at the Master's Degree level fosters critical thinking and promotes understanding of the broad scope of health care within sociopolitical contexts and ethical-legal implications of health care delivery. Graduate education is rooted in a strong tradition of research and scholarly endeavor which includes systematic inquiry, leadership and creative conceptualization. Graduate prepared nurses are leaders and change agents in their area of practice. Masters degree prepared nurses identify gaps in knowledge, formulate research questions, promote advancement of professional nursing in self and others, and systematically evaluate the quality of evidenced-based practice.

The faculty upholds the belief that continuing education is an ethical, moral, and legal responsibility of all nurses at every level of education. Education is a life-long process with the emphasis on maintaining, improving, and promoting competency in the nursing practice.

International students with English as a second language may apply for admission to the La Roch College RN-BSN Program after completing one-two years of clinical work experience in a U.S. healthcare agency prior to or concurrent with the educational program.

Prospective students must have one-two years experience in a U.S. health care agency.

1. Complete the appropriate admission application in English at least three months before the projected enrollment date.
2. Be licensed to practice nursing in a state or country and provide copy of license.
3. Complete the Commission on Graduates of Foreign Nursing Schools (CGFNS) process.[CGFNS, 3600 Market Street, Fourth Floor, Philadelphia, PA 19104-2651]
4. Complete the Test of English as a Foreign Language Exam (TOEFL). A score of 600 must be achieved. This score should be submitted as part of the

- admission process. Students will be referred to English as a Second Language [ESL] as part of the procedure.
5. Outline sources of funding to support completion of the academic program and its requirements.
 6. Submit a reference letter from a person who can address the applicant's nursing ability, ability to achieve in an academic program, ability to communicate in English, and ability to adapt to life in a foreign country.
 7. Those applicants who are accepted for admission must complete all necessary forms through the La Roche College Department of International Student Services three months prior to arrival in the U.S.
 8. Applicant will be notified of acceptance into the program by the Office of Graduate and Continuing Education Admissions.

Many graduates of the La Roche B.S.N. program elect to pursue graduate work at the College. Specific entrance requirements, admission procedures, course descriptions, etc., for graduate study are available from the La Roche College Office of Admissions for Graduate and Continuing Education. International students are required to come to campus to take exams through the program.

Students Admitted to the Current/Revised Curriculum

The program is open only to registered nurses and requires 120 credits for graduation. To complete the nursing major successfully, the following course work is required:

- 24 prerequisite credits which must include 12 science credits
- 36 credits Nursing Mobility Profile II (NCLEX)
- 30 liberal arts credits
- 30 nursing component credits (18 credits of which are required; 12 credits of nursing electives)

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College. Students must achieve a minimum of a "C" grade in each nursing course.

RN-MSN Program

The RN-MSN option provides an opportunity for associate degree and diploma prepared nurses to obtain the MSN. The program is entirely **online** and allows nurses interested in advance roles to move more directly into such positions as nurse administrator or nurse educator.

The advantage to enrolling in the RN-MSN is the credits required in the BSN are decreased and the transition to MSN is quicker. The BSN degree curriculum is reduced by two elective courses and the student is able to take two graduate courses at the undergraduate tuition rate. Students may take graduate courses as they complete the BSN requirements.

The Bachelor of Science in Nursing is awarded upon the successful completion of 6 credits of graduate level courses.

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

| | |
|---------------------------------------------------|-----------|
| Microbiology for Health Sciences | BIOL1015 |
| Anatomy & Physiology I | BIOL1023 |
| Human Anatomy and Physiology Lab I | BIOL1023L |
| Anatomy & Physiology II | BIOL1024 |
| Human Anatomy & Physiology II Laboratory | BIOL1024L |
| Principles of Chemistry I | CHEM1007 |
| College Writing I | ENGL1011 |
| College Writing II | ENGL1012 |
| Introduction to Psychology | PSYC1021 |
| Race, Class, Gender: An Introduction to Sociology | SOCL1021 |

Liberal Arts Component – Lower Division Courses: 15 credits

| | |
|---------------------------------|----------|
| Fundamentals of Management | ADMG1018 |
| Practical Computer Applications | ISTC1005 |
| Probability and Statistics | MATH1040 |
| Introduction to Philosophy | PHIL1021 |
| Select Aesthetics | SLAE |

Liberal Arts Component – Upper Division Courses: 15 credits

| | |
|-------------------------|-----------|
| Literature Elective | ENGL3XXX |
| General Elective | GE XXX |
| Global/Community Course | GLBL/COMM |
| History Elective | HIST3XXX |
| Biomedical Ethics | PHIL3027 |

Nursing Component Required Courses: 18 credits required

| | |
|---------------------------------------|----------|
| Health Assessment in Nursing Practice | NURU3020 |
| Leadership in Nursing | NURU3021 |
| Health Teaching | NURU3022 |
| Nursing Research I | NURU3023 |
| Current Issues in Nursing | NURU4020 |
| Community Nursing I | NURU4021 |

Nursing Component: Select 12 credits from the following electives

| | |
|-------------------------------------|----------|
| Nursing During Acute Illness | NURU3024 |
| Nursing of the Adolescent | NURU3025 |
| Introduction to Nursing Informatics | NURU4012 |
| Nursing Research II | NURU4023 |
| Healing in Nursing Practice | NURU4024 |
| Legal Aspects of Nursing Practice | NURU4026 |
| Health Care for Women | NURU4027 |
| Child Health & the School Nurse | NURU4030 |

| | |
|---------------------------------------|----------|
| Nursing Practice with the Fatally Ill | NURU4032 |
| Family Health Nursing | NURU4036 |
| Health Care for Men | NURU4037 |
| Foundations of Forensic Nursing | NURU4040 |

Nursing LPN / ASN

The ASN program prepares graduates to sit for the NLCEX-RN and to perform as entry level nurse generalists in a variety of settings. Graduates are provided the knowledge base for continued professional growth.

To successfully complete the LPN Associate degree, the following coursework is required:

- 51 credits of Major Requirements (54 credits if required to take NURU2027)
- 9 credits of LPN Advanced Standing
- 9 credits CORE Curriculum courses
- Note: No nursing courses can be accepted as transfer

CORE Curriculum: 9 credits

| | |
|---------------------------------|----------|
| College Writing I | ENGL1011 |
| College Writing II | ENGL1012 |
| Practical Computer Applications | ISTC1005 |

LPN License-Advanced Standing: 9 credits (earned after completion of NURU2005)

| | |
|---------------------------------------|----------|
| Introduction to Nursing | NURU1000 |
| Foundations of Clinical Nursing | NURU1005 |
| Medical-Surgical Nursing of the Adult | NURU2000 |

Major Requirement: 3 credits (only required based on RN Predictor Score)

| | |
|-------------------------------------------------------|----------|
| A Cognitive Approach to Clinical Reasoning in Nursing | NURU2027 |
|-------------------------------------------------------|----------|

Major Requirements: 51 credits

| | |
|------------------------------------------|-----------|
| Microbiology for Health Sciences | BIOL1015 |
| Microbiology for Health Sciences Lab | BIOL1015L |
| Anatomy & Physiology I | BIOL1023 |
| Human Anatomy and Physiology Lab I | BIOL1023L |
| Anatomy & Physiology II | BIOL1024 |
| Human Anatomy & Physiology II Laboratory | BIOL1024L |
| Normal and Clinical Nutrition | NSCI1025 |
| LPN to RN Transition Course | NURU2005 |
| Mental Health Nursing | NURU2010 |
| Childbearing and Women's Health Nursing | NURU2012 |
| Nursing of Children | NURU2015 |
| Principles of Pharmacology | NURU2020 |
| High Acuity Nursing | NURU2025 |
| Nursing Leadership | NURU2030 |
| Medical-Surgical Nursing of Adult II | NURUXXXX |
| Philosophy Elective | PHILXXXX |
| Introduction to Psychology | PSYC1021 |

PreK-4 Teacher Education/Special Education

A major in PreK-4th/Dual Certification is meant to prepare students for a career as a highly qualified PreK-4 Elementary Education teacher with dual certification in Special Education. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education.

To successfully complete the PreK-4/Dual Certification major, the following coursework is required:

- 15 credits of Major Requirements
- 83 credits of Education requirements
- 40 CORE credits
- A minimum of 138 credits are required for the degree, the last 30 of which must be completed at La Roche College. Developmental coursework does not count towards the minimum number of credits required for graduation.

Education Requirements: 83 credits

| | |
|------------------------------------------------------------------------------------------|----------|
| Orientation to PreK-4 Education | EDEL2000 |
| Observation I (PreK) | EDEL2010 |
| Observation II (Kdg-4) | EDEL2020 |
| Methods of Teaching Health and Physical Education PreK-4th Grade | EDEL2030 |
| Creative Thinking: Methods of Integrating Art and Music Throughout the PreK-4 Curriculum | EDEL3015 |
| Methods of Teaching Writing PreK-4th Grade | EDEL3025 |
| Methods of Teaching Reading PreK-4th Grade | EDEL3035 |
| Teaching Reading and Language Arts Practicum PreK-4th Grade | EDEL3045 |
| Methods of Teaching Social Studies PreK-4th Grade | EDEL3055 |
| Methods of Teaching Science PreK-4th Grade | EDEL4035 |
| Methods of Teaching Math PreK-4th Grade | EDEL4040 |

| | |
|--------------------------------------------------------------------------------------|----------|
| Teaching Math Practicum PreK-4th Grade | EDEL4045 |
| Integrating Curriculum and Instruction | EDEL4060 |
| Student Teaching and Seminar (PreK-1) | EDEL4064 |
| Student Teaching and Seminar (2-4) | EDEL4065 |
| Introduction to High Incidence Disabilities, Accommodations and Adaptations | EDSP2015 |
| Learning Environments, Classroom Behavior Management, Accommodations and Adaptations | EDSP2025 |
| Introduction to Low Incidence Disabilities, Methods and Practicum | EDSP3015 |
| Effective Instructional Strategies for Students with Disabilities | EDSP3025 |
| Specialized Instructional Planning, Accommodations, Adaptations and Field Experience | EDSP3035 |
| Evaluation and Authentic Assessment within a Standards Aligned System | EDSP3040 |
| Development of the IEP and Inclusion in Least Restrictive Environment | EDSP4015 |
| Special Education Student Teaching and Seminar | EDSP4065 |
| Introduction to Education | EDUC1010 |
| Introduction to Psychology | PSYC1021 |
| Child Development | PSYC2022 |
| Educational Psychology | PSYC2061 |

Major Requirements: 15 credits

| | |
|--------------------------------------------------------|----------|
| Life Science | BIOL1001 |
| Geography and World Affairs | GEOG3013 |
| U.S. History: The Foundation of a Republic (1600-1865) | HIST1010 |
| Mathematics for the Liberal Arts | MATH2000 |
| Family Relations | SOCL3027 |

Elementary Education Certification

[Education Department Website](#)

The Elementary Education Certification is a Post-Baccalaureate Program and requires 74 credits for completion.

Required Courses: 74 credits

| | |
|-------------------------------------------------------------|-----------|
| Accounting Concepts | ACCT1001 |
| Life Science | BIOL1001 |
| Introduction to High Incidence Disabilities | EDSP2010 |
| Foundations of Education & Field Experience | EDUC2010 |
| Intermediate Student Teaching | EDUC4055 |
| Methods of Teaching Art | ELED3021A |
| Methods of Teaching Music | ELED3022A |
| Teaching Reading & Language Arts | ELED3040 |
| Teaching Reading and Language Arts Practicum | ELED3041 |
| Methods of Teaching Science and Health | ELED4020 |
| Methods of Teaching Social Studies | ELED4030 |
| Methods of Teaching Math | ELED4040 |
| Teaching Math Practicum | ELED4040B |
| Integrating Technology In The Elementary Curriculum | ELED4052 |
| Primary Student Teaching | ELED4054 |
| Children's Literature | ENGL3013 |
| American English: Its History & Development | ENGL3033 |
| U.S. History: The Foundation of a Republic (1600-1865) | HIST1010 |
| U.S. History: The Emergence of a Mass Democracy (1865-1945) | HIST1011 |
| Practical Computer Applications | ISTC1005 |
| Probability and Statistics | MATH1040 |
| The Natural Sciences | NSCI1001 |
| Nutrition | NSCI1010 |
| Child Development | PSYC2022 |
| Educational Psychology | PSYC2061 |

Nursing - Forensic Nursing Certificate Program

[Nursing Department Website](#)

The Forensic Nursing Certificate is open to registered nurses and is offered in conjunction with the Criminal Justice program. Forensic nursing is the application of nursing science combined with the bio-psycho-social education of the registered nurse in the scientific investigation and treatment of trauma and/or death of victims and perpetrators of abuse, violence, criminal activity and traumatic accidents. Forensic nurses practice in a variety of settings including but not limited to hospitals, clinics, legal affiliations, law enforcement agencies, and correctional facilities. This certificate will prepare the registered nurse to assume a novice role as a forensic nurse.

Certification

Each student must complete the admissions requirements for forensic nurse certification. The courses for this program must be taken in sequence, though the last two may be taken concurrently.

The following courses comprise the certificate program:

Required Courses: 10 credits

| | |
|---------------------------------------------|----------|
| Introduction to the Criminal Justice System | CRIM1001 |
| Crime Scene & Forensics Laboratory | CRIM3040 |

Nursing - School Nurse Certificate Program**Certificate Program:**

The School Nurse Certification program has been revised in accordance with the new Act 49 guidelines and has been submitted to the Pennsylvania Department of Education. We are currently awaiting approval of the program.

[Nursing Department Website](#)

The School Nurse Certificate Program is open to registered nurses who have earned a BSN degree and to students who are currently enrolled in La Roche College's BSN Degree Completion Program.

This program is offered by the Department of Nursing in conjunction with the Teacher Education Department at La Roche College. This program is designed for the professional nurse who desires to focus on the health care needs of children in the school setting. The school nurse may practice in school-based, school-linked or collaborative school health programs. This program is approved by the Pennsylvania Department of Education.

Certification as a School Nurse

Each student must complete the requirements for school nurse certification. The school nurse certificate will then be issued by the Pennsylvania Department of Education. The program can be completed as part of the BSN degree program with the addition of the four-credit EDUC2010 theory and practicum (total of 124 credits). The program can also be completed by the student who already holds a BSN or MSN degree. The applicant's transcript will be evaluated and analyzed for congruence with the program objectives and standards set forth by the Pennsylvania Department of Education. If all prerequisites are met, the applicant may then be granted full admission to the program. The program may be completed in eight credits (two courses and two practicum experiences). If additional course work is required, the applicant will be granted provisional status until prerequisites are met.

Program Requirements

The courses for the certificate program are to be taken in sequence or concurrently. Both courses in the School Nurse Certificate Program must be taken at La Roche College.

EDUC2010 Foundations of Education and Field Experience (four credits)
NURU4030 Child Health and the School Nurse (four credits)

The State of Pennsylvania requires a 100-hour practicum with a certified school nurse. This practicum will be arranged during the NURU4030 Child Health and the School Nurse course. Practicum experiences are contracted with the school and preceptor by the Teacher Education Division. This experience enables the student to meet the standards set for the School Nurse Certificate Program by the Pennsylvania Department of Education.

PA Department of Education Requirements:

All candidates for school nurse certification must also complete the following requirements prior to applying for certification:

3 credits college level English Composition
3 credits college level English Literature
6 credits college level Math

Admission Requirements**Post BSN or Post MSN Students:**

Applicants who have an earned BSN or MSN degree and seek admission to the School Nurse Certificate Program must:

Submit completed application along with the \$35 application fee
Provide official transcripts from all colleges and universities attended
Provide course descriptions for nursing courses or college catalogue (to verify course content) for each undergraduate and graduate school attended, other than La Roche, during years of attendance
Have a cumulative QPA of at least 3.0
Obtain Criminal Background and Child Abuse Clearances (Act 33 and 34 clearance). Visit the La Roche College Cx background clearances website by [CLICKING HERE](#).
Submit a personal essay that addresses the reasons for seeking school nurse certification and a statement of future professional goals
Have a minimum of one or two years nursing experience: pediatrics, maternal-child or trauma/ER nursing preferred
Submit copies of current Pennsylvania RN license, CPR certification, professional liability insurance and completed health form (including verification of Hepatitis B immunization)

Currently Enrolled BSN Students:

Students who are currently enrolled in the BSN Completion Program at La Roche College and who apply to the Certificate Program must:

Submit completed application (\$35 application fee waived)
Have a cumulative QPA of at least 3.0.
Obtain Criminal Background and Child Abuse Clearances (Act 33 and 34 clearance). Visit the La Roche College Cx background clearances website by [CLICKING HERE](#).
Submit a personal essay that addresses the reasons for seeking school nurse certification and a statement of future professional goals
Have a minimum of one or two years nursing experience: pediatric, maternal-child, or trauma/ER nursing preferred
Complete all program prerequisites, liberal arts courses and all required nursing courses
Submit copies of current Pennsylvania RN license, CPR certification, professional liability insurance and completed health form (including verification of Hepatitis B immunization)

Entrance Criteria:

Current PA RN License
BSN transcript with cumulative QPA of 3.0

Professional experience (1-2 years)
Act 33 and 34 clearances (apply for)

After acceptance, before beginning coursework:

Current Act 33 and 34 clearances
Current CPR certification

For NURU4030 -- physical exam, current immunization status including Hepatitis B, RN student professional liability insurance.

Exit Criteria

Successful completion of EDUC2010 and 15 hour practicum (minimum C grade)
Successful completion of NURU4030 and the 100 hour practicum (minimum C grade)
Student portfolio review which includes: 1) assignments which document attainment of state mandated competence, 2) exam with a passing score of C or above
Satisfactory attainment of practicum objectives
Successful achievement of school nurse end-of-program objectives.

End of Program Objectives School Nurse Certificate Program

Upon completion of the School Nurse Certificate Program, the student will be able to:

Utilize the knowledge base for critical thinking and decision making in nursing practice.
Utilize a systematic approach to problem-solving in nursing practice.
Assess, plan and provide appropriate nursing care for children and evaluate the identified outcomes of care.
Utilize effective written, verbal, and nonverbal communication skills.
Demonstrate the knowledge and skills necessary to establish and maintain a comprehensive school health program.
Collaborate with other school professionals, parents and caregivers to meet the health, developmental and educational needs of clients.
Collaborate with members of the community in the delivery of health and social services, and utilize knowledge of community health systems and resources to function as a school-community liaison.
Assist students, families and the school community to achieve optimal levels of wellness through appropriately designed and delivered health education.
Contribute to nursing and school health through innovations in practice and participation in research or research-related activities.
Identify, delineate and clarify the nursing role, promote quality of care, pursue continued professional enhancement and demonstrate professional conduct.

Required Courses: 8 credits

| | |
|---------------------------------------------|----------|
| Foundations of Education & Field Experience | EDUC2010 |
| Child Health & the School Nurse | NURU4030 |

Special Education Certification Program

[Education Department Website](#)

The Special Education Program provides K-12 teacher education candidates with the opportunity to seek "add-on" certification in Special Education. Students must meet all of the competency standards set by the Pennsylvania Department of Education and they must also pass the PRAXIS in special education. A 3.0 QPA is one of the requirements for the certification.

In order to meet the requirements for Special Education Certification undergraduate students should work closely with their Elementary or Secondary Advisors and the Chair of the Special Education Program to determine what courses should be taken in what term. Special Education candidates must complete a six-week student teaching experience above and beyond the student teaching experience in their primary area of certification.

Course Requirements: 18-21 credits (Select SPED320 or SPED330)

| | |
|---------------------------------------------|----------|
| Introduction to High Incidence Disabilities | EDSP2010 |
| Program/Classroom Management | EDSP2020 |
| Methods and Practicum | EDSP3010 |
| Inter/Intra Group Communication | EDSP3020 |
| Mentoring/Practicum | EDSP3030 |
| Advanced Seminar | EDSP4010 |
| Student Teaching-Special Education | EDSP4051 |

Master of Science in Nursing - Nursing Administration

[Nursing Department Website](#)

To successfully complete the Nursing Administration degree 36 credits are required in the following coursework:

Fall Semester Year One:

| | |
|----------------------------------------------------------------|----------|
| Nursing Theory & Research | NURG5002 |
| Role Development of the Nurse Administrator & Nurse Educator | NURG5013 |
| Nursing Informatics for Nurse Administrators & Nurse Educators | NURG5033 |

Fall Semester Year Two:

| | |
|---------------------------|----------|
| Health Care Finance | NADM5000 |
| Nursing Administration II | NADM5020 |

Nursing Administration II: Seminar & Practicum NADM5025

Spring Semester Year One:

Nursing Administration I: Theory, Concepts & Principles NADM5017
Health Policy NURG5020
Human Diversity & Social Issues in Nursing Administration & Nursing Education NURG5035

Spring Semester Year Two:

Nursing Administration III NADM6000
Nursing Administration III: Seminar & Practicum NADM6025
Capstone Research Experience NURG6000

Master of Science of Nursing - Nursing Education

[Nursing Department Website](#)

To successfully complete the Nursing Education degree 34 credits are required in the following coursework:

Fall Semester Year One:

Nursing Theory & Research NURG5002
Role Development of the Nurse Administrator & Nurse Educator NURG5013
Nursing Informatics for Nurse Administrators & Nurse Educators NURG5033

Fall Semester Year Two:

Teaching & Learning: Strategies for the Classroom and Clinical Nursing Education NEDG5002
Curriculum Design I: Development of Curriculum NEDG5004
Curriculum Design II: Evaluation & Revision of Curriculum NEDG5006

Spring Semester Year One:

Health Policy NURG5020
Human Diversity & Social Issues in Nursing Administration & Nursing Education NURG5035

Spring Semester Year Two:

Assessment, Measurement & Evaluation of Learners NEDG5000
Nursing Education Teaching Practicum NEDG5008
Capstone Research Experience NURG6000
Humanities Division

La Roche Course Catalogue

Wednesday, December 14, 2011

Humanities Division

Programs of Study

Majors

Communication, Media & Technology BS
English Education - Language & Literature BA
English Studies - Journalism and Professional Writing BA
English Studies - Language & Literature BA
English Studies - Professional Writing - Creative Non-fiction BA
Film, Video and Media BA
History BA
Information Technology BS
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 |
| Women's / Gender Studies Minor | Other |

Certificate Programs

| | |
|------------------------------------------|-------------|
| Applied Ethics Certificate | Certificate |
| English as a Second Language | Certificate |
| ESL Specialist Program | Certificate |
| Modern Language Certificate Program | Certificate |
| Parish Program Manager Certificate | Certificate |
| Professional Writing Certificate Program | Certificate |
| Humanities Division Detail | |

Detail - Humanities Division

Communication, Media & Technology

[Communication, Media & Technology Department Website](#)

The Communication, Media and Technology Department prepares students for positions with video, television, radio, internet and other media organizations. With a strong background in communication, technology, computers, writing and message design, students who want to be writers, directors and producers of mass media can get their start in the department of Communication, Media and Technology. The program also offers significant background and experience in understanding the structure of computer-mediated communication and the ways that people communicate through the internet. For those from developing countries, Communication, Media and Technology is especially relevant in preparing students to help organize, plan and provide programming for media such as radio, television, internet and cable.

To complete the Communication, Media and Technology major successfully, the following course work is required:

- 51 credits of Major Requirements
- 37 credits required in the core curriculum
- 32 credits of general electives

Basic Skills and Fundamental Knowledge Area: Select 9 credits

| | |
|---------------------------------------------------|----------|
| Marketing Management | ADMG2021 |
| The Creative Process | COMM4038 |
| Fundamentals of Electronic Publishing | GCDN1025 |
| Computer Graphics II | GCDN1071 |
| Multimedia I | GCDN2029 |
| Introduction to Cyberspace | ISTC2008 |
| Advertising and Public Relations | MRKT2007 |
| Race, Class, Gender: An Introduction to Sociology | SOCL1021 |
| Culture & Human Societies | SOCL2070 |

Capstone Requirements: 6 credits

| | |
|----------------------------|----------|
| Senior Capstone | CMET4050 |
| Communication Internship I | CMET4051 |

Communicating Effectively: Select 9 credits

| | |
|-----------------------------------------------|----------|
| Creative Writing I | ENGL2040 |
| Writing for Non-Profits | ENGL3042 |
| Writing for Advertising and Media | ENGL3043 |
| Modern Public Speaking | SPCH1001 |
| Creative Dramatics | SPCH1022 |
| Contemporary Communication Through Discussion | SPCH2002 |

Communication, Media and Technology Electives: Select 6 credits

| | |
|--------------------------------|----------|
| Communication in Organizations | CMET2001 |
| Message Design and Media | CMET3005 |
| Special Topics | CMET3040 |

Required Coursework: 21 credits

| | |
|-------------------------------------------------|----------|
| Human Communication | CMET1001 |
| Mass Media and Digital Communication | CMET1002 |
| Communication Between Cultures | CMET2003 |
| Communication Theory, Research and Criticism | CMET2005 |
| New Media and Digital Communication Theory | CMET3002 |
| Legal Issues of Media and Digital Communication | CMET4001 |
| Broadcasting, Cable and New Media | CMET4002 |

English Education - Language & Literature

[Education Department Website](#)

This program prepares the student for a career as a teacher of English at the secondary level. A student will seek PA Department of Education Secondary Certification. Students must meet all of the competency standards set by the PA Department of Education, and they must pass the PRAXIS Test 1 and 2. Students must also maintain the following QPA requirement of 3.0 QPA for entrance and exit.

To successfully complete the English secondary education major, the following coursework is required:

- 39 English credits as listed under major requirements
- 40 Education credits as listed under Education Requirements
- 12 credits of required coursework in Psychology and Mathematics
- 34-37 CORE/General Elective credits.

A minimum of 125 credits is required for degree, the last 30 of which must be taken at La Roche.

Education Requirements: 40 credits

| | |
|----------------------------------------------------------|----------|
| Introduction to High Incidence Disabilities | EDSP2010 |
| Program/Classroom Management | EDSP2020 |
| Methods and Practicum | EDSP3010 |
| Foundations of Education & Field Experience | EDUC2010 |
| Methods of Teaching and Evaluating English | ENED3010 |
| Methods of Teaching Writing: Composition | ENGL1050 |
| Methods of Teaching Writing: Writers' Center | ENGL2050 |
| Methods of Teaching Literature I | ENGL3040 |
| Methods of Teaching Literature II | ENGL3041 |
| Methods of Teaching Writing: Genres | ENGL3050 |
| Methods of Teaching Writing: Sequencing and Assessment | ENGL4050 |
| English Language Learners in the Multicultural Classroom | MLED2000 |
| Advanced Field Experience | SCED3051 |
| Secondary Student Teaching | SCED4051 |

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

| | |
|---------------------|----------|
| Literature Elective | ENGL3XXX |
|---------------------|----------|

Major Requirements: 33 credits (includes one Writing Course beyond ENGL1012)

| | |
|--------------------|----------|
| World Literature I | ENGL2021 |
|--------------------|----------|

Major Requirements: 39 credits (EN221 or EN314 & EN323 or EN321)

| | |
|---------------------------------------------|----------|
| Adolescent Literature | ENED3030 |
| Grammar & Usage Essentials | ENGL0010 |
| Introduction to Literary Study | ENGL2010 |
| World Literature I | ENGL2021 |
| World Literature II | ENGL2022 |
| Issues in American Literature I | ENGL2036 |
| Issues in American Literature II | ENGL2039 |
| World Mythology | ENGL3014 |
| Shakespeare on Film | ENGL3021 |
| Shakespeare | ENGL3023 |
| Introduction to Literary Theory & Criticism | ENGL3029 |
| American English: Its History & Development | ENGL3033 |
| Senior Seminar | ENGL4055 |

Required Mathematics: 3 credits

| | |
|----------------------------|----------|
| Probability and Statistics | MATH1040 |
|----------------------------|----------|

Required Psychology Courses: 9 credits

| | |
|----------------------------|----------|
| Introduction to Psychology | PSYC1021 |
| Adolescence Psychology | PSYC2040 |
| Educational Psychology | PSYC2061 |

Select one drama or film course: 3 credits

| | |
|----------------------------------------|----------|
| Film Analysis: Form, History, Ideology | ENGL2043 |
| Dramatic Literature | ENGL3018 |
| Modern American Drama | ENGL3019 |
| Shakespeare on Film | ENGL3021 |
| Creative Dramatics | SPCH1022 |

Select one of the following sequences:

| | |
|------------------------|----------|
| Elementary French I | MLFR1001 |
| Intermediate French I | MLFR2001 |
| Elementary Spanish I | MLSP1001 |
| Intermediate Spanish I | MLSP2001 |

Select one writing course: 3 credits

| | |
|-------------------------------|----------|
| Business Communications | ENGL2029 |
| Technical Writing | ENGL2030 |
| Creative Writing I | ENGL2040 |
| Special Topics in Composition | ENGL3012 |
| Journalism I | ENGL3031 |
| Advanced Exposition | ENGL3037 |

English Studies - Journalism and Professional Writing[English Department Website.](#)

The writing curriculum is designed to prepare students for careers in public relations, business communications and publications, advertising, writing, journalism and technical writing. To complete the professional writing major successfully, the following course work is required:

- 30 credits of English Writing Component courses
- 12 credits of Literature Component courses
- 15 credits of Professional Companion courses
- 15 Credits of Professional Focus credits selected in a discipline
- 37 credits of CORE Curriculum courses
- 12 credits of General Electives

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

Professional Focus: 15 Credits

Consists of five courses chosen from the student's area of academic interest.

English Writing Component: 30 credits

| | |
|---------------------------------------------|-----------|
| Business Communications | ENGL2029 |
| Technical Writing | ENGL2030 |
| Creative Non-Fiction: Special Topics | ENGL3012D |
| Journalism I | ENGL3031 |
| Journalism II | ENGL3032 |
| American English: Its History & Development | ENGL3033 |
| Advanced Exposition | ENGL3037 |
| Writing for Non-Profits | ENGL3042 |
| Writing for Advertising and Media | ENGL3043 |
| English Writing Internship | ENGL4051 |
| Senior Seminar | ENGL4055 |

Literature Component: 12 credits

| | |
|--------------------------------|----------|
| Introduction to Literary Study | ENGL2010 |
| Literature Elective | ENGL2XXX |
| Literature Elective | ENGL3XXX |
| Literature Elective | ENGL3XXX |

Professional Companion: 15 credits

| | |
|--------------------------------------------|----------|
| New Media and Digital Communication Theory | CMET3002 |
| Publication Design | ENGL3051 |
| Fundamentals of Electronic Publishing | GCDN1025 |
| Digital Photography | GCDN2016 |
| Marketing Management | MRKT2021 |

English Studies - Language & Literature[English Department Website.](#)

The English language and literature curriculum is designed to develop language skills and to teach analytical skills and research methods necessary in approaching English studies as a discipline. The program encourages an appreciation of cultural heritage through literary works and stimulates the imagination. This major prepares students for graduate school in English or library science, and for positions in government services and public relations.

To complete the Language & Literature major successfully, the following course work is required:

- 33 credits of Major Requirements
- 3 credits of Writing Skills Component
- 18-20 credits in either Literature, Language and Literature, or Literacy and Learning Focus Areas
- 34-37 credits of CORE Curriculum courses
- 32-35 credits of General Electives

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

Major Requirements: 33 credits (includes one Writing Course beyond ENGL1012)

| | |
|---------------------------------------------|----------|
| Introduction to Literary Study | ENGL2010 |
| Issues in American Literature I | ENGL2036 |
| Issues in American Literature II | ENGL2039 |
| Shakespeare | ENGL3023 |
| Introduction to Literary Theory & Criticism | ENGL3029 |
| American English: Its History & Development | ENGL3033 |
| Senior Seminar | ENGL4055 |
| Literature Elective | ENGLXXXX |

English Studies - Professional Writing - Creative Non-fiction

[English Department Website.](#)

This major is meant to prepare students for a public life. The major prepares students for careers in public relations, advertising, writing, journalism, technical writing and business communication, non-profit organizations and human service agencies.

To successfully complete the English Studies: Professional Writing/Creative Non-Fiction major, the following coursework is required:

- 45 credits of Major Requirements
- 12 credits of Management and Design Component courses
- 37 credits CORE Curriculum courses
- 26 credits of General Electives

A minimum of 120 credits are required for degree, the last 30 of which must be earned at La Roche College.

English Major Requirements: 45 credits (Select EN 334 or 312b AND EN 338 or 335 AND EN 337 or 312d)

| | |
|---------------------------------------------|----------|
| Introduction to Literary Study | ENGL2010 |
| Technical Writing | ENGL2030 |
| Creative Writing I | ENGL2040 |
| Literature Elective | ENGL2XXX |
| Readings in Contemporary Non-Fiction | ENGL3011 |
| Special Topics in Composition | ENGL3012 |
| Journalism I | ENGL3031 |
| Journalism II | ENGL3032 |
| American English: Its History & Development | ENGL3033 |
| Writing for Advertising | ENGL3034 |
| Writing for Television & Radio | ENGL3035 |
| Advanced Exposition | ENGL3037 |
| Public Relations Writing | ENGL3038 |
| Literature Elective | ENGL3XXX |
| Literature Elective | ENGL3XXX |
| English Writing Internship | ENGL4051 |
| Senior Seminar | ENGL4055 |

Management and Design Component: 12 credits

| | |
|---------------------------------------|----------|
| Fundamentals of Electronic Publishing | GCDN1025 |
| Digital Photography | GCDN2016 |
| Publication Design | GCDN3051 |
| Design Elective | GCDNXXXX |

Film, Video and Media

[Communication, Media & Technology Department Website](#)

This cooperative program with Pittsburgh Filmmakers is meant to provide majors with the necessary background to pursue a career in any aspect of the film, video and media industries in activities ranging from writing and directing to editing, producing and animation.

To successfully complete the Film, Video and Media major, the following are required:

- 30 credits of Major Requirements
- 24 credits of Pittsburgh Filmmakers Required courses
- 18 credits of Pittsburgh Filmmakers Electives (to be chosen in consultation with academic advisor)
- 34 credits of CORE Curriculum courses
- 14 credits of General Electives

A minimum of 120 credits is required for degree, the last 30 of which must be completed at La Roche College.

Major Requirements: 30 credits

| | |
|----------------------------------------|----------|
| Human Communication | CMET1001 |
| Mass Media and Digital Communication | CMET1002 |
| Message Design and Media | CMET3005 |
| Creative Writing I | ENGL2040 |
| Film Analysis: Form, History, Ideology | ENGL2043 |
| Writing for Television & Radio | ENGL3035 |
| Fundamentals of Electronic Publishing | GCDN1025 |

| | |
|---------------------------------|----------|
| Practical Computer Applications | ISTC1005 |
| Introduction to Cyberspace | ISTC2008 |
| Marketing Management | MRKT2021 |

Pittsburgh Film Makers Requirements: 24 credits

| | |
|----------------------------------|----------|
| Photographic and Motion Pictures | FVMA1001 |
| International Film History | FVMA1004 |
| Film Production I | FVMA1006 |
| Elements of Film | FVMA1007 |
| Intro to Film Theory & Criticism | FVMA1010 |
| Technical Directing | FVMA2025 |
| Intro to Screenwriting | FVMA2028 |
| Producing for Film and Video | FVMA3034 |

History

[History Department Website](#)

The primary objective of the history program is to lead students to a global awareness as well as an understanding of their many heritages. The program also seeks to develop skills that will enable students to enter a variety of professions such as law, teaching, business and government, as well as to prepare them for graduate school.

To complete the history major successfully, the following course work is required:

- 36 required history credits. History Core Requirements include six (6) additional History credits.
- 12 major elective credits. Within Major Electives, students may select either GEOG/INST3010 OR GEOG 3013; either POLI1005 OR POLI1022; and either ADMG1005 OR SOCL1021. In addition, when selecting Major Electives, 3 credits only should be selected from the list of Religious Studies/Philosophy courses shown below.
- 38 general elective credits
- 34 Core Curriculum credits

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

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

| | |
|---------------------------------------------------|---------------|
| Macroeconomics | ADMG1005 |
| Cultural Geography and the Human Mosaic | GEOG/INST3010 |
| Geography and World Affairs | GEOG3013 |
| Introduction to Philosophy | PHIL1021 |
| Introduction to American Government | POLI1022 |
| World Religions | RELS1003 |
| Women & Religion | RELS2020 |
| Religious Influence on U.S. Development | RELS3037 |
| Varieties of Early Christianity | RELS3040 |
| Race, Class, Gender: An Introduction to Sociology | SOCL1021 |

Required Courses: 15 credits-any 2000-3000 level History(HIST) course or any (POLI) course listed below-6 credits must be in U.S. history & 6 credits in non-U.S. history

| | |
|---------------------------------------|----------|
| 2000-3000 Level History(HS) Course | HISTXXXX |
| 2000-3000 Level History(HS) Course | HISTXXXX |
| 2000-3000 Level History(HS) Course | HISTXXXX |
| 2000-3000 Level History(HS) Course | HISTXXXX |
| 2000-3000 Level History(HS) Course | HISTXXXX |
| History & Politics of Africa | POLI3019 |
| History & Politics of the Middle East | POLI3045 |

Required Courses: Select 9 credits (At least one course must be in Western Civilization)

| | |
|-------------------------------------------------------------|----------|
| U.S. History: The Foundation of a Republic (1600-1865) | HIST1010 |
| U.S. History: The Emergence of a Mass Democracy (1865-1945) | HIST1011 |
| Western Civilization I | HIST1013 |
| Western Civilization II | HIST1014 |
| Multicultural History of the U.S. | SLHS1002 |

Required History Fundamental Courses: 12 credits

| | |
|--------------------------|----------|
| History Seminar | HIST4055 |
| Any level History Course | HISTXXXX |
| Any level History Course | HISTXXXX |
| Any level History Course | HISTXXXX |

Information Technology

[Information Systems & Technology \(IST\) Department Website](#)

This major prepares students for employment in a wide range of technical computer-based occupations ranging from networking to database administration, help desk solutions, and web administration.

To successfully complete the Information Technology Major, the following coursework is required:

- 54 credits of IT Major Requirements
- 18-21 credits to secure a minor
Note that all IT majors are required to take a minor. MIS (Management Information Systems) is not available as a minor for these purposes.
- 45-48 credits of CORE Curriculum courses and General Electives as required to reach 120.

A minimum of 120 credits is required for completion of degree, the last 30 of which must be completed at La Roche College.

Note: The IT program is not structured to be a part of La Roche College's undergraduate business programs and therefore is not included in its ACBSP accreditation.

IT Elective: Select 1

| | |
|----------------------------------|----------|
| Distributed Data Processing | ISTC2050 |
| Web Page Usability & Programming | ISTC3008 |
| Computer Programming: COBOL | ISTC3020 |
| Scripting for the Web | ISTC3028 |
| Advanced Networking & Telecom | ISTC3031 |

IT Major Requirements: 54 credits

| | |
|----------------------------------------|----------|
| Technical Writing | ENGL2030 |
| Problem Solving | ISTC1021 |
| Computer Hardware | ISTC1025 |
| IST: A Global Perspective | ISTC2005 |
| Introduction to Cyberspace | ISTC2008 |
| Management Of Information Systems | ISTC2021 |
| Computer-Based Training & DL | ISTC2025 |
| Networking | ISTC2030 |
| Data Base Management Systems | ISTC2045 |
| Advanced Computer Hardware | ISTC3000 |
| Legal Issues and Info Tech | ISTC3005 |
| Human Computer Interaction | ISTC3015 |
| Linux | ISTC3030 |
| Computer Programming in Java | ISTC3034 |
| Advanced Data Base Management Concepts | ISTC3046 |
| Systems Analysis and Design | ISTC4042 |
| Senior Seminar in IST | ISTC4055 |

Performing Arts - Dance Studio

La Roche College Dance Department Mission and Vision

MISSION STATEMENT

The mission of the La Roche College Dance Department is to prepare a competent, educated, and mature professional who is viable in the current creative work force. We are committed to nurturing our students through extensive technical training, a deep historical and kinesthetic knowledge of the art form, and an enriched artistic awareness that is developed through performance and practicum.

The La Roche College Dance Department is a ballet-based program offering a Bachelor of Arts Degree in professional performance and pedagogy. The concentration of the dance department is rooted in classical ballet; however the artists are to reach proficiency in multiple genres including: contemporary ballet, modern technique, jazz, Pilate's technique, and dance composition.



VISION

The La Roche College Dance Department strives to educate and coach our students in a nurturing and compassionate way, developing each of their individual talents through a comprehensive and cohesive academic and creative environment.

DEPARTMENTAL GOALS

The La Roche College Dance Department is committed to the development and enhancement of our artist's abilities in an effort to articulate our pristine accelerated programmatic goals on a national level.

- Students study and train primarily with the Director of Dance for the duration of four years while receiving enrichment from company artists and esteemed guests of Bodiography Contemporary Ballet.
- Students are required to reach equal proficiency in both classical ballet technique and contemporary technique upon graduation.
- Students are required to demonstrate their competency and knowledge of all techniques through the production of a student guided senior thesis, which identifies their technical balance while highlighting their individual artistic strengths.

Dance Requirements: 66 credits

| | |
|-----------------------|---------------|
| Performance | PART1000-4000 |
| Ballet Techniques | PART1004-4004 |
| Contemporary/Modern | PART1005-4005 |
| Pointe/Pas de Deux | PART1009-4009 |
| Variations/Repertoire | PART1012-4012 |

Performing Arts Academics - 30 credits

| | |
|-------------------------------------------------------|----------|
| Introduction to the Human Body: Systems That Move You | BIOL1002 |
| Nutrition | NSCI1010 |
| Kinesiology | NSCI2005 |
| Fundamentals of Music | PART1022 |
| Dance History I | PART2010 |
| Dance History II | PART2015 |
| Dance Pedagogy I | PART3015 |
| Dance Composition | PART3030 |
| Dance Composition II | PART4030 |
| Senior Seminar in Performing Arts/Dance | PART4055 |

Political Science

[Political Science Website](#)

A major in Political Science helps to prepare students for careers in politics, government, global service, legal studies, graduate studies, journalism, and diplomacy. To successfully complete the Political Science major, the following coursework is required:

- 9 credits of Political Science Requirements
- 24 credits of Political Science Major Electives:
- 34 credits of CORE Curriculum courses
- 53 credits of General Electives

A minimum of 120 credits is required for degree, the last 30 of which must be taken at La Roche College.

Political Science Major - 9 credits required

| | |
|-------------------------------------|---------------|
| Comparative Government | POLI/INST3021 |
| Introduction to American Government | POL11022 |
| History of Political Thought | POLI3015 |

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

| | |
|-------------------------------------------------------------|----------|
| Media & Democracy | COMM4009 |
| U.S. History: The Emergence of a Mass Democracy (1865-1945) | HIST1011 |
| History & Culture of the American Indian | HIST3000 |
| History of Black Americans | HIST3038 |
| Constitutional Law | POLI2005 |
| History of European Diplomacy | POLI3002 |
| Modern U.S. Diplomatic History | POLI3023 |
| American Foreign Policy | POLI3033 |
| History of American Political Values, Beliefs & Ideas | POLI3036 |
| The American Presidency | POLI3037 |
| Politics and Society | POLI3039 |
| Multicultural History of the U.S. | SLHS1002 |
| Race & Ethnicity | SOCL1034 |
| Wealth, Power & Prestige | SOCL2038 |

**Political Science Major Electives
Comparative Politics (no more than 15 credits from this sub-field)**

| | |
|--------------------------------------------------|---------------|
| Terrorism | CRIM3036 |
| Geography & World Affairs | GEOG/INST3013 |
| Britain and Its Empire | HIST2000 |
| Contemporary Central America | HIST3005 |
| Russia and the Soviet World | HIST3020 |
| History of Modern Germany | HIST3026 |
| History of Modern Europe | HIST3027 |
| East Asian History | HIST3028 |
| Global Politics | POLI2001 |
| Islam in the World | POLI2045 |
| History of European Diplomacy | POLI3002 |
| International Political Economics | POLI3003 |
| History & Politics of Africa | POLI3019 |
| Comparative Public Policy | POLI3022 |
| Development: Political, Social & Economic Issues | POLI3025 |
| Ethnic Conflict | POLI3040 |
| Terrorism in the Modern Age | POLI3041 |
| History & Politics of the Middle East | POLI3045 |
| History & Politics of the Middle East | POLI3045 |
| History & Politics of the Middle East | POLI3045 |
| Development in Southeast Asia | POLI3051 |
| Experience of Modern War | POLI3052 |
| Social Movements & Resistance | POLI3082 |
| History & Politics of Italy | POLI4000C |
| Multicultural History of the U.S. | SLHS1002 |
| Global Social Problems | SOCL1023 |

Psychology

[Psychology Department Website](#)

The psychology program integrates an applied emphasis with a foundation grounded in the sciences. The program presents a balanced treatment of the major approaches to contemporary psychology and fosters in the student an appreciation of the problems and promise of the discipline of psychology.

To complete the psychology major successfully, a minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

The following course work is required:

- 30 credits in psychology: 9 required credits and an additional 21 credits completed from courses listed below;
- 37 credits of core requirements;
- 53 credits of general electives selected by the student with the approval of the academic advisor.

Major Requirements: 9 credits

| | |
|--------------------------------|----------|
| Introduction to Psychology | PSYC1021 |
| Research Methods in Psychology | PSYC3011 |
| Senior Seminar in Psychology | PSYC4055 |

Psychology Electives: 21 credits

| | |
|---------------------------------------|---------------|
| Criminal Behavior: Law and Psychology | PSYC/CRIM3063 |
| Death & Dying | PSYC/SOCL3020 |
| Social Psychology | PSYC/SOCL3029 |
| Health Psychology | PSYC2015 |
| Human Sexuality | PSYC2018 |
| Child Development | PSYC2022 |
| The Exceptional Child | PSYC2033 |
| Psychology & Humor | PSYC2036 |

| | |
|------------------------------------------|----------|
| Psychology of Spirituality | PSYC2038 |
| Adolescence Psychology | PSYC2040 |
| Special Topics | PSYC2050 |
| Educational Psychology | PSYC2061 |
| Abnormal Psychology | PSYC3023 |
| Industrial and Organizational Psychology | PSYC3025 |
| Learning & Cognition | PSYC3027 |
| Theories of Personality | PSYC3028 |
| Interpersonal & Group Dynamics | PSYC3030 |
| Tests & Measurements | PSYC3031 |
| Psychology of Adulthood and Aging | PSYC3032 |
| Physiological Psychology | PSYC3035 |
| Counseling Theories & Methods I | PSYC3040 |
| Counseling Theories & Methods II | PSYC3041 |
| Evolutionary Psychology | PSYC3045 |
| Forensic Psychology | PSYC3065 |
| Special Topics in Advanced Psychology | PSYC4050 |
| Psychology Internship I | PSYC4051 |
| Psychology Internship II | PSYC4052 |
| Directed Research | PSYC4056 |
| Independent Study | PSYC4057 |

Religious Studies

[Religious-Studies Department Website](#)

The academic and scientific study of religion has always held a prominent position in institutions of higher learning. The religious studies department at La Roche College continues in this tradition. The major in religious studies is concerned with the academic study of religion in its historical and cultural context. The courses introduce students to the variety of areas of academic pursuit in religious studies, demonstrate the interface of religious studies and theology with the social sciences and enable students to understand, analyze, apply and evaluate theological methodologies and theories as they relate to human experience and existence.

The Religious Studies major is meant to prepare students in the academic study of religion for careers in Pastoral Ministry or social services or for graduate study.

To successfully complete the Religious Studies major, the following coursework is required:

- 30 credits of Religious Studies Major Requirements
- 15 credits of Religious Studies Major Electives
- 34 credits of CORE Curriculum courses
- 41 credits of General Electives

Major Requirements: 30 credits - Select either RELS4055 or RELS4056

| | |
|----------------------------------------|----------|
| Ethics | PHIL2026 |
| Old Testament | RELS1001 |
| New Testament | RELS1002 |
| World Religions | RELS1003 |
| Church History | RELS1011 |
| Moral Theology | RELS1015 |
| Sacramental Theology | RELS1016 |
| Christology | RELS2014 |
| The Church: Institution/Community | RELS2034 |
| Senior Seminar | RELS4055 |
| Directed Research in Religious Studies | RELS4056 |

Major Electives: 15 credits

| | |
|-----------------------------------------|----------|
| Christian Ritual & Worship | RELS1012 |
| Survey of Catholic Doctrine | RELS1018 |
| Women & Religion | RELS2020 |
| Mystery of God | RELS2033 |
| Special Topics in Religious Studies | RELS2050 |
| Sociology of Religion | RELS3031 |
| Religious Influence on U.S. Development | RELS3037 |
| Varieties of Early Christianity | RELS3040 |
| Special Topics in Scripture | RELS3045 |
| Religious Studies Internship I | RELS4051 |
| Religious Studies Internship II | RELS4052 |

Sociology

[Sociology Department Website](#)

Social justice and equality are the key elements to a peaceful and stable society. But our world is often plagued by the persistence of centuries-old problems such as racism, poverty, war, oppression, enslavement, political economic underdevelopment, crime, human exploitation, and environmental degradation. Sociology is a field of study that analyzes these social problems and phenomena, and how they continue to affect groups and societies. It also examines how social issues arise and how they have been addressed. Sociology allows us to discuss realistic solutions to these problems and issues, and why or how these options have failed or succeeded. Through the understanding of the dynamic relationships between social structure and human behavior, scholars of sociology have provided theories and approaches to explain social issues, social change, and social problems.

What can you do with a BA in Sociology? Employers look for people with the skills that an undergraduate education in sociology provides:

As a broad discipline, sociology cuts across many areas of the social sciences. Thus a degree in sociology prepares students for a wide range of career opportunities in public administration, politics, social and health services, criminal justice, business, education, counseling, social research journalism, public relations, and various other needs, especially those that require analytical skills and working with people from all social backgrounds; Knowledge and skills in sociological theories and research methods provide sociology students with the preparation for wide option of post-graduate work. A BA in Sociology is an extremely useful major for the preparation of graduate studies in sociology and other social science disciplines, as well as for law school;

Globalization has impacted nearly every aspect of people's lives around the world. The growth of both business and non-profit organizations at the national and international levels requires the recruitment of personnel who understand world affairs and appreciate diversity. A BA in sociology that focuses on global affairs would prepare sociology students with the capabilities needed in such organizations.

At La Roche College, a minimum of 120 credits is required for degree, the last 30 of which must be earned at the College. To graduate with a Sociology major, the following course work is required:

33 required sociology credits selected from each of the categories below.

15 Sociology elective credits selected from categories C, D and/or E as shown below. Sociology electives can also be taken in the form of individualized courses for juniors and seniors from the following: SOCL4051 and 4052, Sociology Internship I and II; SOCL4056, Directed Research; and/or SOCL4057, Independent Study.

MATH1040, Probability and Statistics, is a prerequisite for the SOCL3011 Research Methods course. (3 credits).

32 General Elective credits, at least 11 credits of which must be taken outside of sociology.

40 College Core Curriculum credits (see <http://www.laroche.edu/academics/core.asp> to find out more).

A. Required Introductory Courses – Select 6 credits

| | |
|---------------------------------------------------|----------|
| Race, Class, Gender: An Introduction to Sociology | SOCL1021 |
| Global Social Problems | SOCL1023 |
| Race & Ethnicity | SOCL1034 |

B. Required: Core Sociology – 9 credits

| | |
|-------------------------------|----------|
| Foundations of Social Thought | SOCL2040 |
| Research Methods | SOCL3011 |
| Senior Seminar in Sociology | SOCL4055 |

C. Required Courses: Social Organization – select 6 credits

| | |
|---------------------------|----------|
| Wealth, Power & Prestige | SOCL2038 |
| Women in American Society | SOCL3026 |
| Family Relations | SOCL3027 |
| Sociology of Religion | SOCL3031 |
| Politics and Society | SOCL3039 |
| Ethnic Conflict | SOCL3040 |
| Education & Society | SOCL3050 |

D. Required: Global Sociology – select 6 credits

| | |
|-------------------------------|----------|
| Sports & Globalization | SOCL2022 |
| Islam in the World | SOCL2045 |
| Culture & Human Societies | SOCL2070 |
| Social Change & Development | SOCL3025 |
| Cities & Globalization | SOCL3041 |
| Development in Southeast Asia | SOCL3051 |
| Environment & Society | SOCL3081 |
| Social Movements & Resistance | SOCL3082 |

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

| | |
|----------------------------------|----------|
| Juvenile Delinquency | SOCL2030 |
| Social Gerontology | SOCL2061 |
| Human Services in Modern Society | SOCL2062 |
| Sociology of Work & Occupations | SOCL3008 |
| Death & Dying | SOCL3020 |
| Social Psychology | SOCL3029 |
| Theories of Criminal Deviance | SOCL3030 |
| Victims of Abuse and Neglect | SOCL3037 |

Spanish

[Modern Languages Department Website](#)

The Spanish major is meant to enable students to achieve a level of proficiency in Spanish communication skills and in the understanding of Hispanic cultures sufficient to allow them to function effectively in graduate school programs and/or careers in other disciplines such as teaching, business, the media, etc.

To successfully complete the Spanish major the following coursework is required:

- 30 credits of Spanish Major Requirements
- 9 credits of Spanish Major Electives
- 34 credits of CORE Curriculum courses
- 47 credits of General Electives

A minimum of 120 credits are required for degree, the last 30 of which must be earned at La Roche College.

Major Requirements: 30 credits

| | |
|----------------------------------------|----------|
| Hispanic Literature and Culture | MLSP2030 |
| Advanced Spanish Language & Culture I | MLSP3001 |
| Advanced Spanish Language & Culture II | MLSP3002 |
| Advanced Spanish Grammar & Composition | MLSP3005 |
| Advanced Conversation | MLSP3010 |
| Applied Hispanic Linguistics | MLSP3015 |
| Latin American Culture | MLSP3025 |
| Survey of Spanish Literature | MLSP3030 |
| Survey of Latin American Literature | MLSP3040 |
| Senior Seminar: Special Topics | MLSP4040 |

Major Requirements-Electives: Select 9 credits

| | |
|------------------------------|----------|
| History of Latin America | HIST2035 |
| Contemporary Central America | HIST3005 |
| History of Spain | HIST3012 |
| Spanish Culture | MLSP3020 |

Ballet Performance Minor

Minors must be completed within the student's graduation timeline. A minimum GPA of 2.0 must be achieved in the following courses to qualify for the minor.

To complete the Ballet Performance Minor, a total of 29 credits must be completed.

Required Courses:

| | |
|---------------------|---------------|
| Performance | PART1000-4000 |
| Ballet Techniques | PART1004-4004 |
| Contemporary/Modern | PART1005-4005 |

Communication, Media & Technology Minor

[Communication, Media & Technology Department Website](#)

To fulfill the Communication, Media and Technology Minor, 18 credits are required.

Minor must be completed within the student's graduation timeline. Two academic years are estimated for minor completion due to course rotation and prerequisites.

Required Courses (A):

| | |
|----------------------------------------------|----------|
| Human Communication | CMET1001 |
| Mass Media and Digital Communication | CMET1002 |
| Communication Theory, Research and Criticism | CMET2005 |
| New Media and Digital Communication Theory | CMET3002 |

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

| | |
|-------------------------------------------------|----------|
| Communication in Organizations | CMET2001 |
| Communication Between Cultures | CMET2003 |
| Critical Evaluation of Mass Media | CMET3001 |
| Legal Issues of Media and Digital Communication | CMET4001 |

English Studies: Professional Writing Minor

[English Department Website.](#)

To complete the English Studies Professional Writing Minor, 15 credits are required.

Minor must be completed within the student's graduation timeline. Two academic years are estimated to complete the minor due to course rotation and prerequisites.

Required Courses -- choose five courses from the following:

| | |
|-----------------------------------|----------|
| Business Communications | ENGL2029 |
| Technical Writing | ENGL2030 |
| Creative Writing I | ENGL2040 |
| Special Topics in Composition | ENGL3012 |
| Journalism I | ENGL3031 |
| Journalism II | ENGL3032 |
| Advanced Exposition | ENGL3037 |
| Writing for Non-Profits | ENGL3042 |
| Writing for Advertising and Media | ENGL3043 |

French Minor

Approximately 2 1/2 academic years are estimated for French Minor completion with respect to fall/spring course rotation and prerequisites.

Students interested in being tested for certification of oral proficiency should consult with the modern language Department Chair.

Requirements: 18 credits.

Required Courses:

| | |
|---------------------------------------|----------|
| Intermediate French I | MLFR2001 |
| Intermediate French II | MLFR2002 |
| Advanced French Language & Culture I | MLFR3001 |
| Advanced French Language & Culture II | MLFR3002 |
| French Civilization and Culture I | MLFR3005 |
| Research in French Studies | MLFR4057 |

History Minor

Three academic years are estimated for history minor completion with respect to Fall/Spring course rotation and prerequisites.

Requirements: 15 credits

Required Courses: 3 Credits from the following

| | |
|-------------------------------------------------------------|----------|
| U.S. History: The Foundation of a Republic (1600-1865) | HIST1010 |
| U.S. History: The Emergence of a Mass Democracy (1865-1945) | HIST1011 |
| Western Civilization I | HIST1013 |
| Western Civilization II | HIST1014 |
| Multicultural History of the U.S. | SLHS1002 |

Required Electives: 12 Credits-Any History (HIST) 2000 or 3000 level course or any of the Political Science (POLI) courses listed below(6 credits must be in U.S. History & 6 credits in non-U.S. History)

| | |
|---------------------------------------|----------|
| History Elective | HISTXXXX |
| History Elective | HISTXXXX |
| History & Politics of Africa | POLI3019 |
| History & Politics of the Middle East | POLI3045 |

Humanities Minor

Requirements: 21 credits

3 academic years are estimated for humanities minor completion with respect to fall/spring course rotation and prerequisites. The following course work is required:

Humanities Minor Required Courses: 15 credits-ENGL2021 or 2022 & ENGL2036 or 2039; Select any 2000 or 3000 level ENGL (Literature) and PHIL courses

| | |
|----------------------------------|----------|
| World Literature I | ENGL2021 |
| World Literature II | ENGL2022 |
| Issues in American Literature I | ENGL2036 |
| Issues in American Literature II | ENGL2039 |
| Literature Elective | ENGL2XXX |
| Literature Elective | ENGL3XXX |
| Introduction to Philosophy | PHIL1021 |
| Philosophy Elective | PHIL2XXX |
| Philosophy Elective | PHIL3XXX |

Must take at least 3 credits of the following:

| | |
|-----------------|----------|
| Old Testament | RELS1001 |
| New Testament | RELS1002 |
| World Religions | RELS1003 |

Select at least 3 credits of the following:

| | |
|------------------|----------|
| Ethics | PHIL2026 |
| Christology | RELS2014 |
| Women & Religion | RELS2020 |

International Affairs Minor

This is an opportunity for students to supplement their career or personal interests and/or to facilitate in-depth study in the field of International Studies. Eighteen credits are required for a minor in International Affairs, with 12 required credits and 6 credits of electives.

Minor must be completed within the student's graduation timeline. It is estimated that two academic years will be needed to complete the required coursework due to course rotation and prerequisites.

International Affairs Minor Required Courses - 12 credits

| | |
|---------------------------------|---------------|
| American Foreign Policy | INST/POLI3033 |
| Global Politics | INST2001 |
| International Legal Environment | INST4048 |

Select two courses from the following - 6 credits

| | |
|--------------------------------------------------|----------|
| Geography Elective | GEOGXXXX |
| International Business Management | INMT3039 |
| Intercultural Communication | INST2003 |
| Comparative Government | INST3021 |
| Development: Political, Social & Economic Issues | INST3025 |

Literature Minor[English Department Website.](#)**Requirements: 15 credits**

Required coursework is available day and evening. Two academic years are estimated for minor completion because of the course rotation.

In addition to the following required course, students must take four (4) literature electives, at least two of which must be upper division courses.

Literature Minor Requirements: 15 credits (Select ENGL3021 or ENGL3023)

| | |
|---------------------|----------|
| Shakespeare on Film | ENGL3021 |
| Shakespeare | ENGL3023 |
| Literature Elective | ENGL3XXX |
| Literature Elective | ENGL3XXX |
| Literature Elective | ENGL3XXX |
| Literature Elective | ENGL3XXX |

Philosophy Minor[Religious-Studies Department Website](#)

Three academic years are estimated for philosophy minor completion with respect to fall/spring course rotation and prerequisites. All coursework must be completed within the student's graduation timeline.

Requirements: 15 credits**Required Courses:**

| | |
|----------------------------|----------|
| Introduction to Philosophy | PHIL1021 |
| Ethics | PHIL2026 |
| Mystery of God | PHIL2033 |
| Moral Theology | RELS1015 |
| World Views & Identity | SLRS1002 |

Psychology Minor[Psychology Department Website](#)

To complete a minor in psychology, a student must take a minimum of 15 credits. Two academic years are estimated for psychology minor completion with respect to fall/spring course rotation and prerequisites. All coursework must be completed within the student's graduation timeline. NOTE: This minor is not available to students majoring in human service.

In addition to the two required courses shown below, students must select three psychology electives, at least one of which must be upper division (3000 level or above). Successful completion of MATH1040, Probability and Statistics, is a prerequisite for students completing this minor.

| | |
|--------------------------------|----------|
| Introduction to Psychology | PSYC1021 |
| Research Methods in Psychology | PSYC3011 |

Religious Studies Minor[Religious-Studies Department Website](#)

3 academic years are estimated for religious studies minor completion with respect to fall/spring course rotation and prerequisites. 18 credits are required for completion.

Required Courses: 9 credits

| | |
|---------------|----------|
| Old Testament | RELS1001 |
| New Testament | RELS1002 |

World Religions

RELS1003

Select 9 credits from the following:

Ethics
Church History
Moral Theology
Sacramental Theology
Survey of Catholic Doctrine
Christology
Women & Religion
The Church: Institution/Community
Special Topics in Religious Studies

PHIL2026
RELS1011
RELS1015
RELS1016
RELS1018
RELS2014
RELS2020
RELS2034
RELS2050

Sociology Minor

[Sociology Department Website](#)

Two academic years are estimated for sociology minor completion with respect to fall/spring course rotation and prerequisites. This minor is not available to students majoring in human services.

Fifteen (15) credits are required. In addition to the required courses shown below, students must select three sociology electives, at least one of which must be upper division (3000 level or higher).

Required courses:

Race, Class, Gender: An Introduction to Sociology
Research Methods

SOCL1021
SOCL3011

Spanish Minor

[Modern Languages Department Website](#) Students may choose a topic related to their major and Spanish culture issues relating to topic. 2-2 1/2 academic years are estimated for Spanish minor completion with respect to fall/spring course rotation and prerequisites. Students interested in being tested for certification of oral proficiency should consult with the Modern Language Department Chair.

Requirements: 18 credits

Intermediate Spanish I
Intermediate Spanish II
Advanced Spanish Language & Culture I
Advanced Spanish Language & Culture II
Research in Spanish Studies

MLSP2001
MLSP2002
MLSP3001
MLSP3002
MLSP4057

Select one of the following courses in history:

History of Latin America
Contemporary Central America
History of Political Thought

HIST2035
HIST3005
HIST3015

Women's / Gender Studies Minor

[Religious-Studies Department Website](#)

Women are the majority sex in the nation and comprise the majority of all students in higher education. The number of women in the paid work force exceeds that of men. As more women work, business and corporations find the need for more sensitivity to issues such as health care, sexual harassment, parental leave, pay equity and equal employment. There is a growing demand in the professions of law, medicine, social work, teaching, counseling, government services and international affairs for expertise in gender issues. Women are recognized and courted as powerful consumers. Women are an influential force in American society as they continue to question and restructure traditional norms, sex roles and cultural expectations.

The minor in Women's / Gender Studies is designed to examine gender from a multidisciplinary perspective and prepare students for the challenges of our gendered world. Students will explore women's roles and experiences in social, political and economic life; women's history; women's spirituality; feminist theory; women's literature; women and the arts; the intersection of gender with other categories of difference such as race, ethnicity, class, sexuality, religion, physical and developmental ability, and age; the impact of globalization on women's lives; and the ways in which gender stereotypes influence women's and men's ideas of themselves and each other.

Course work will provide key conceptual tools that women and men can use in educating themselves and others while in college and can later employ in achieving a personally and professionally successful life. Students will learn to recognize and challenge gender inequity and other types of oppression and will broaden their awareness of current societal expectations for both women and men, thereby increasing their effectiveness and sensitivity in a variety of interpersonal and professional settings. In almost any career a woman or man chooses, s/he will encounter multiple challenges that reflect our gendered world. The Minor would be appropriate and of significant future benefit to students pursuing majors in Management, Marketing, Literary Studies, Criminal Justice, Sociology, History, Psychology, Communications, International Studies, Education, Health Care and students interested in careers promoting peace and social justice. Students would be better prepared to work with advocacy groups, human rights organizations, environmental and consumer groups, health care, youth, elderly and social services, policy and lobbying organizations, trade and international associations and labor.



The Minor in Women's / Gender Studies requires 15 credits, Students select four courses (12 credits) from the following and complete the capstone seminar, Special Topics in Feminist Theory, for an additional three credits
 Minor must be completed within the student's graduation timeline. Three academic years are estimated for completion due to course rotation and prerequisites.

Required Course: 3 credits

Special Topics in Feminist Theory SOCL4XXX

Select four courses (12 credits) from the following:

| | |
|---------------------------|-----------|
| Women in Literature | ENGL3015E |
| Women Across Cultures | GLBL4025 |
| Women in U.S. History | HIST3030 |
| Women & Religion | RELS2020 |
| Women in American Society | SOCL3026 |

Applied Ethics Certificate

A Certificate in Applied Ethics is offered under the auspices of the Religious Studies/Philosophy department of the College. This certificate will be awarded to those who have demonstrated academic interest and achievement in areas of ethics.

Requirements for completion of a Certificate in Applied Ethics are as follows:

Six (6) credits of coursework dealing directly with ethics and morality on a foundational, theoretical level. The candidate must have a minimum grade of C in each course.

Six (6) credits from three upper level applied ethics courses. Three (3) of these credits can come from another course that contains an applied ethics component, preferably in the candidate's major, and that has been approved by the Religious Studies/Philosophy department. The candidate must have a minimum grade of C in each course.

Applied ethics courses: 6 credits

Biomedical Ethics PHIL3027

Foundational courses: 6 credits

| | |
|----------------|----------|
| Ethics | PHIL2026 |
| Moral Theology | RELS1015 |

English as a Second Language

[ESL Department Website](#)

La Roche College offers a comprehensive proficiency oriented program in English As A Second Language (ESL) for non-native speakers who have a basic command of English. The goal of the program is to prepare students to be successful in the academic courses they must take in their chosen majors.

All non-native speakers of English who enter La Roche College are required to take placement tests to assess their level of English proficiency before their first semester begins. The recommendation of the Director of the ESL Program will form the basis of the semester course schedule for each student.

Students may test out of ESL courses or be placed into the program at one of the following levels:

- High Beginner
- Low Intermediate
- High Intermediate
- Advanced

Each level is made up of five four-credit courses: Reading, Writing, Speaking, Grammar and Listening. Students may move into mainstream classes with the recommendation of the Director of the ESL Program.

English as a Second Language

| | |
|---------------------------|----------|
| Low Beginning Reading | ESLN0086 |
| Low Beginning Writing | ESLN0087 |
| Low Beginning Speaking | ESLN0088 |
| Low Beginning Grammar | ESLN0089 |
| High Beginner Reading | ESLN0090 |
| High Beginner Writing | ESLN0091 |
| High Beginner Speaking | ESLN0092 |
| High Beginner Grammar | ESLN0093 |
| High Beginner Listening | ESLN0094 |
| Low Intermediate Reading | ESLN0100 |
| Low Intermediate Writing | ESLN0101 |
| Low Intermediate Speaking | ESLN0102 |
| Low Intermediate Grammar | ESLN0103 |

| | |
|---------------------------------------------------|----------|
| Low Intermediate Listening | ESLN0104 |
| High Intermediate Reading | ESLN0105 |
| High Intermediate Writing | ESLN0106 |
| High Intermediate Speaking | ESLN0107 |
| High Intermediate Grammar | ESLN0108 |
| Intensive Writing | ESLN0114 |
| High Intermediate Listening | ESLN0120 |
| Advanced Reading | ESLN1009 |
| Advanced Writing | ESLN1010 |
| Advanced Speaking | ESLN1011 |
| Advanced Structures of Academic English | ESLN1012 |
| Intensive Reading | ESLN1013 |
| Intensive Speaking | ESLN1015 |
| Advanced Listening | ESLN1030 |
| Independent Study in English as a Second Language | ESLN4057 |

ESL Specialist Program

[ESL Department Website](#)

The English as a Second Language Specialist Certificate Program prepares students to teach English Language Learners in the American school system, grades K-12. This is an additional certification for La Roche College Education majors pursuing a teaching certificate in another content area, and for currently practicing teachers who already possess a Pennsylvania teaching certificate.

Successful completion of the program qualifies students for the Pennsylvania English as a Second Language (ESL) Specialist Certification. ESL Specialists provide language and content instruction to English Language Learners, collaborate with and train school personnel to support these learners, and work with parents and community members to meet the challenges of linguistically and culturally diverse classrooms.

Students must fulfill the requirements of the program while maintaining a 3.0 QPA. There are six required courses, totaling 18 credits:

Required Courses: 18 Credits

| | |
|----------------------------------------------------------|----------|
| English Language Learners in the Multicultural Classroom | MLED2000 |
| Structures of English | MLED2005 |
| Language Learning and Instruction | MLED2010 |
| Methods of Teaching and Evaluating ESL | MLED3002 |
| Curriculum and Materials Development for TESOL | MLED3005 |
| Field Experience and Seminar in TESOL | MLED3015 |

Modern Language Certificate Program

[Modern Languages Department Website](#) La Roche College offers a modern language certificate program in French and Spanish. It is designed to develop a working-level speaking ability in a foreign language as well as competency in the other language skills.

The program also provides intensive learning experiences in foreign cultures and customs. Through state-of-the-art methodologies, including computer assisted instruction, various technological aides and other support programs, students are provided with opportunities for individual pacing and reinforcement of language skills.

The department encourages interested students to participate in immersion programs, i.e. language programs in native speaking environments, in order to experience a full exposure to the target language and culture.

The program consists of a sequence of six courses aimed at developing the oral proficiency skills of the student as measured on the ACTFL/ETS national scale. Final testing to qualify for the certificate will take place after a student has completed the Language and Culture II course of the language cycle. Only an "Intermediate-Mid" or above level as measured on the ACTFL/ETS scale will appear on the student's transcript.

Requirements:

Completion of one of the following language cycles with a grade point of "B" or higher:

- French cycle:
MLFR 1001, 1002, 2001, 2002, 3001, 3002
- Spanish cycle:
MLSP1001, 1002, 2001, 2002, 3001, 3002
- Demonstration of oral proficiency at an intermediate or advanced level
- Successful completion of written examination following the fulfillment of the language cycle requirement

NOTE: The Modern Language Certificate Program is not a major. Students may elect to earn a certificate in addition to their major, core, and elective requirements.

French Cycle:

| | |
|---------------------------------------|----------|
| Elementary French I | MLFR1001 |
| Elementary French II | MLFR1002 |
| Intermediate French I | MLFR2001 |
| Intermediate French II | MLFR2002 |
| Advanced French Language & Culture I | MLFR3001 |
| Advanced French Language & Culture II | MLFR3002 |

Spanish Cycle:

| | |
|----------------------------------------|----------|
| Elementary Spanish I | MLSP1001 |
| Elementary Spanish II | MLSP1002 |
| Intermediate Spanish I | MLSP2001 |
| Intermediate Spanish II | MLSP2002 |
| Advanced Spanish Language & Culture I | MLSP3001 |
| Advanced Spanish Language & Culture II | MLSP3002 |

Parish Program Manager Certificate

[Religious-Studies Department Website](#)

This Certificate Program is designed to provide Parish Program Managers with basic courses in religious studies. As a Catholic college, La Roche College believes that all parish personnel committed to ministry should be prepared to engage the teachings of Christ and the tradition of the Church.

30 credits are required for completion of this certificate program.

Required Courses: 30 credits

| | |
|-----------------------------------|----------|
| Ethics | PHIL2026 |
| Old Testament | RELS1001 |
| New Testament | RELS1002 |
| World Religions | RELS1003 |
| Church History | RELS1011 |
| Sacramental Theology | RELS1016 |
| Christology | RELS2014 |
| Women & Religion | RELS2020 |
| The Church: Institution/Community | RELS2034 |
| Religious Studies Internship I | RELS4051 |

Professional Writing Certificate Program

[English Department Website.](#)

Requirements: 24 credits

Students who wish to obtain the Certificate in Professional Writing must complete the equivalent of EN 111 and EN 112 as prerequisites to acceptance into the program. Twenty-four (24) credits will be required for the Certificate. No more than 9 credits may be transferred from another institution.

Choose 15 credits from the following:

| | |
|-----------------------------------|----------|
| Business Communications | ENGL2029 |
| Creative Writing I | ENGL2040 |
| Special Topics in Composition | ENGL3012 |
| Journalism I | ENGL3031 |
| Journalism II | ENGL3032 |
| Advanced Exposition | ENGL3037 |
| Writing for Non-Profits | ENGL3042 |
| Writing for Advertising and Media | ENGL3043 |

Required Courses: 9 credits (Select GCDN1025 or ENGL3051)

| | |
|----------------------------------------|----------|
| Technical Writing | ENGL2030 |
| Publication Design | ENGL3051 |
| Fundamentals of Electronic Publishing | GCDN1025 |
| Introduction to Cyberspace | ISTC2008 |
| Natural & Behavioral Sciences Division | |

La Roche Course Catalogue

Wednesday, December 14, 2011

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 |
| Child and Family Studies | BA |
| Computer Science | BS |
| Criminal Justice | BA |
| Criminal Justice - Accelerated Program for Criminal Justice Professionals (APCJP) | BA |
| Health Science - Option 1 | BA |
| Health Science - Option 2 or 3 | 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 |
| Computer Security & Forensics Minor | Other |
| Criminal Justice Minor | Other |
| Medical Technology Minor | Other |
| Political Science Minor | Other |
| Pre-law Minor | Other |

Certificate Programs

| | |
|----------------------------|-------------|
| Criminalistics Certificate | Certificate |
| Forensic Psychology | Certificate |

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 Studies | Other |
| Speech-Language Pathology | Other |
| Natural & Behavioral Sciences Division Detail | |

Detail - Natural & Behavioral Sciences Division

Biology (B.A.)

The bachelor of arts program in biology is designed to be merged with studies in a non-science area. The resulting program will retain the elements of biology necessary for the successful application of this science in another discipline. Students will be advised to choose a minor; some possibilities include management, pre-law, professional writing and computer information systems. Other combinations may be arranged to fit the needs of students.

To complete the biology (B.A.) major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College.

The following course work is required for completion of degree:

- 33 credits in Major Requirements
- 22 credits in biology electives level 200 or above
- 34 credits to satisfy remaining Core Curriculum requirements not covered above.
- 31 credits of general electives selected with the approval of the academic advisor

Major Requirements Requirements: 33 credits (includes 22 credits of biology electives)

| | |
|---------------------------------------|-----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| College Algebra | MATH1010 |
| Trigonometry | MATH1023 |
| Probability and Statistics | MATH1040 |
| Physics for Health Sciences | PHYS1010 |
| Physics for Health Science Laboratory | PHYS1010L |

Biology (B.S.)

The bachelor of science program in biology is planned to provide scientific training as part of a liberal education and to give the student a basic comprehension of the main areas of biology. The program is designed to prepare the student for graduate work, for admission to medical/dental/veterinary school, for a biologically oriented career, or for research in the biological sciences.

To complete the biology (B.S.) major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required course work consists of:

- 36 credits in biology (includes 8 credits of biology electives 200 level or above)
- 35 credits in other science and mathematics courses
- 34 credits to satisfy remaining Core Curriculum requirements not satisfied above.
- 15 credits of general electives selected with the approval of the academic advisor.

Note: Those students choosing this major as preparation for medical, dental or veterinary school are advised to take the courses listed below under that category as either biology or general electives.

Biology Requirements: 36 credits (includes 8 credits of Biology electives)

| | |
|-------------------------------|-----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| Microbiology | BIOL2025 |
| Microbiology Laboratory | BIOL2025L |
| Genetics | BIOL3013 |
| Genetics Laboratory | BIOL3014 |
| Cell Biology | BIOL3026 |
| Biochemistry I | BIOL3036 |
| Biochemistry Laboratory | BIOL3037 |
| Biochemistry II | BIOL3038 |
| Seminar in Biology | BIOL4059 |

Medical/Dental/Veterinary School Preparation Courses:

| | |
|------------------------------------------------|----------|
| Comparative Vertebrate Anatomy & Physiology I | BIOL2021 |
| Comparative Vertebrate Anatomy & Physiology II | BIOL2022 |
| Immunology | BIOL4019 |
| Immunology Laboratory | BIOL4020 |

Other Science & Mathematics Courses: 35 credits

| | |
|-----------------------------------|-----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II | CHEM2016 |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |

Biology with Forensics

This major prepares students for employment or graduate studies in biological sciences with forensic applications, including such professions as a crime lab scientist or a member of a criminal investigations team.

To successfully complete the biology major, the following course work is required:

- 36 credits in biology (2 of which must be in seminar)
- 43 credits in chemistry, mathematics and physics
- 13 credits in criminal justice
- 31 CORE curriculum credits.

A minimum of 123 credits is required for graduation, the last 30 of which must be completed at La Roche College.

Biology Component: 36 credits

| | |
|-------------------------------|-----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| Microbiology | BIOL2025 |
| Microbiology Laboratory | BIOL2025L |
| Genetics | BIOL3013 |
| Genetics Laboratory | BIOL3014 |
| Cell Biology | BIOL3026 |

| | |
|-------------------------------------|----------|
| Special Topics in Biology/Chemistry | BIOL3028 |
| Biochemistry I | BIOL3036 |
| Biochemistry Laboratory | BIOL3037 |
| Biochemistry II | BIOL3038 |
| Molecular Biology | BIOL4030 |
| Molecular Biology Laboratory | BIOL4031 |
| Seminar in Biology | BIOL4059 |

Chemistry, Mathematics and Physics: 43 credits

| | |
|------------------------------------|-----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II | CHEM2016 |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytical Chemistry I | CHEM3011 |
| Analytical Chemistry Laboratory | CHEM3011L |
| Analytical Chemistry II | CHEM3012 |
| Analytical Chemistry II Laboratory | CHEM3012L |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |

Criminal Justice: 13 credits

| | |
|---------------------------------------------|----------|
| Introduction to the Criminal Justice System | CRIM1001 |
| Criminal Law | CRIM3010 |
| Criminalistics | CRIM3041 |
| Criminal Investigations | CRIM3045 |

Chemistry

[Chemistry Department Website](#)

This program is designed to provide the student with a strong foundation in chemistry, including a solid theoretical background as well as broad exposure to experimental techniques and current instrumentation. Upon successful completion of this program, a student will be prepared for entry level positions in chemistry-related industries and to pursue advanced degrees in a variety of scientific areas, such as medical/dental/veterinary school.

To complete the chemistry major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required course work consists of:

- 37 chemistry component credits(2 of which must be in seminar)
- 27 science component credits
- 56 CORE/General Elective credits

NOTE: students choosing this major as preparation for medical/dental/veterinary school are advised to take the courses shown under that category below as chemistry or general electives.

Chemistry Core: 37 credits

| | |
|------------------------------------|-----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II | CHEM2016 |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytical Chemistry I | CHEM3011 |
| Analytical Chemistry Laboratory | CHEM3011L |
| Analytical Chemistry II | CHEM3012 |
| Analytical Chemistry II Laboratory | CHEM3012L |
| Physical Chemistry I | CHEM4032 |
| Physical Chemistry Laboratory | CHEM4032L |
| Physical Chemistry II | CHEM4033 |
| Physical Chemistry II Laboratory | CHEM4033L |
| Seminar in Chemistry I | CHEM4055 |
| Seminar in Chemistry II | CHEM4059 |
| Chemistry Elective | CHEMXXXX |

Science Component: 27 credits

| | |
|--------------------|----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |

| | |
|-----------------------------------|-----------|
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |

Suggested Medical/Dental/Veterinary School Preparation Courses:

| | |
|------------------------------------------------|----------|
| Comparative Vertebrate Anatomy & Physiology I | BIOL2021 |
| Comparative Vertebrate Anatomy & Physiology II | BIOL2022 |
| Microbiology | BIOL2025 |
| Genetics | BIOL3013 |
| Genetics Laboratory | BIOL3014 |
| Immunology | BIOL4019 |
| Immunology Laboratory | BIOL4020 |
| Biochemistry I | CHEM3036 |
| Biochemistry Laboratory | CHEM3037 |

Chemistry - Comprehensive

[Chemistry Department Website](#)

This major is designed for the student who wishes to study chemistry in more depth. It is particularly appropriate for students who wish to pursue a graduate degree in chemistry. Students preparing for careers in academic or industrial laboratories will also benefit from this major. This program is constructed using the guidelines prepared by the Committee on Professional Training of the American Chemical Society. This group of courses provides the 500 hours of laboratory instruction recommended by the A.C.S.

To complete the Comprehensive Chemistry major, a minimum of 120 credits is required, the last 30 of which must be completed at La Roche College. The required course work consists of:

- 50 credits Chemistry Required courses, which include a Chemistry elective at the 3000- or 4000-level
- 33 credits of other Science and Mathematics
- 34 credits of CORE Curriculum courses
- 3 credits of general electives selected with the approval of the academic advisor.

Chemistry Required Courses: 50 credits

| | |
|------------------------------------|-----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II | CHEM2016 |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytical Chemistry I | CHEM3011 |
| Analytical Chemistry Laboratory | CHEM3011L |
| Analytical Chemistry II | CHEM3012 |
| Analytical Chemistry II Laboratory | CHEM3012L |
| Inorganic Chemistry | CHEM3026 |
| Biochemistry I | CHEM3036 |
| Biochemistry Laboratory | CHEM3037 |
| Physical Chemistry I | CHEM4032 |
| Physical Chemistry Laboratory | CHEM4032L |
| Physical Chemistry II | CHEM4033 |
| Physical Chemistry II Laboratory | CHEM4033L |
| Seminar in Chemistry I | CHEM4055 |
| Research in Chemistry | CHEM4056 |
| Seminar in Chemistry II | CHEM4059 |
| Chemistry Elective | CHEMXXXX |
| Chemistry Elective | CHEMXXXX |

Other Science & Mathematics Courses: 33 credits

| | |
|-----------------------------------|-----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| Computer Science Elective | CSCXXXX |
| Computer Science Elective | CSCXXXX |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |

Chemistry - Forensic Science

[Chemistry Department Website](#)

This major will prepare students to work in a forensic chemistry laboratory, or for graduate study in chemistry. To successfully complete the chemistry major, the following course work must be completed:

42 chemistry component credits (2 of which must be in seminar)
31 natural science component credits
13 Criminal Justice credits
34 CORE/General Elective credits.

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

Chemistry Component: 42 credits

| | |
|------------------------------------|-----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II | CHEM2016 |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytical Chemistry I | CHEM3011 |
| Analytical Chemistry Laboratory | CHEM3011L |
| Analytical Chemistry II | CHEM3012 |
| Analytical Chemistry II Laboratory | CHEM3012L |
| Biochemistry I | CHEM3036 |
| Biochemistry Laboratory | CHEM3037 |
| Physical Chemistry I | CHEM4032 |
| Physical Chemistry Laboratory | CHEM4032L |
| Physical Chemistry II | CHEM4033 |
| Physical Chemistry II Laboratory | CHEM4033L |
| Seminar in Chemistry I | CHEM4055 |
| Seminar in Chemistry II | CHEM4059 |
| Forensic Chemistry | CHEM4060 |
| Forensic Chemistry Laboratory | CHEM4060L |

Criminal Justice component: 13 credits

| | |
|---------------------------------------------|----------|
| Introduction to the Criminal Justice System | CRIM1001 |
| Criminal Law | CRIM3010 |
| Criminalistics | CRIM3041 |
| Criminal Investigations | CRIM3045 |

Science and Mathematics Component: 31 credits

| | |
|-----------------------------------|-----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| Molecular Biology | BIOL4030 |
| Molecular Biology Laboratory | BIOL4031 |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |

Chemistry - Materials Science Engineering

[Chemistry Department Website](#)

A 3 + 2 program available in conjunction with the University of Pittsburgh School of Engineering, this program leads to a B.S. degree in Chemistry from La Roche College and a B.S.E. in Materials Science and Engineering from the University of Pittsburgh. Students will complete three years of study at La Roche College and two at the University of Pittsburgh.

To complete a dual major, a total of 167 credits is required, 99 from La Roche College and 68 from the University of Pittsburgh. The required course work consists of:

- 32 credits in the Chemistry Core
- 36 additional credits of other science and mathematics courses
- 68 credits from the University of Pittsburgh School of Engineering
- 30 credits to satisfy the remaining Core Curriculum requirements not covered above
- 1 credit in NS 104 (New Student Seminar)

Chemistry Core: 32 credits

| | |
|------------------------------------|-----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II | CHEM2016 |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytical Chemistry I | CHEM3011 |
| Analytical Chemistry Laboratory | CHEM3011L |
| Analytical Chemistry II | CHEM3012 |
| Analytical Chemistry II Laboratory | CHEM3012L |
| Physical Chemistry I | CHEM4032 |
| Physical Chemistry Laboratory | CHEM4032L |
| Physical Chemistry II | CHEM4033 |
| Physical Chemistry II Laboratory | CHEM4033L |

Other Science and Mathematics Courses: 36

| | |
|-----------------------------------|----------|
| Polymer Chemistry | CHEM3015 |
| Programming I | CSCI1010 |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Analytic Geometry & Calculus III | MATH2030 |
| Ordinary Differential Equations | MATH2031 |
| Linear Algebra | MATH3015 |
| Physics I | PHYS1032 |
| Physics II | PHYS1033 |
| Physics III | PHYS2030 |

Child and Family Studies

Bachelor of Arts

The Child and Family Studies major focuses on human development within the context of families, communities, and the wider society, and an understanding of challenges and treatment options for families in distress. The major is interdisciplinary in nature, with a core foundation in psychology as well as perspectives from education and the social sciences. To successfully complete the Child and Family Studies major, the following coursework is required:

42 credits of Major Requirements
37 credits of Core Requirements
41 credits of General Electives

This major cannot be doubled with a major or minor in Psychology.

Major Requirements: 42 Credits

| | |
|-----------------------------------------------------|----------|
| Survey of the Helping Professions and Family Policy | CFST2010 |
| Couple Relationships: An Exploration of Diversity | CFST3013 |
| Senior Seminar | CFST4055 |
| Introduction to High Incidence Disabilities | EDSP2010 |
| Introduction to Psychology | PSYC1021 |
| Child Development | PSYC2022 |
| Adolescence Psychology | PSYC2040 |
| Research Methods in Psychology | PSYC3011 |
| Abnormal Psychology | PSYC3023 |
| Psychology of Adulthood and Aging | PSYC3032 |
| Counseling Theories & Methods I | PSYC3040 |
| Counseling Theories & Methods II | PSYC3041 |
| Psychology Internship I | PSYC4051 |
| Psychology Internship II | PSYC4052 |

Computer Science

[Computer Science Department Website](#)

A major in Computer Science is meant to prepare students for jobs and careers in the computer industry or for further study at the graduate level in computer science, telecommunications, or related fields, or to provide students with a background in a fundamental science.

To complete the computer science degree major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required course work consists of:

- 33 credits in computer science core-components
- 9 credits in computer science electives
- 14 credits in mathematics
- 8 credits in physics
- 34 credits in core curriculum

- 22 credits in general electives

Computer Science Core: 33 credits

| | |
|----------------------------------|-----------|
| Introduction to Computer Science | CSCI1002 |
| Programming I | CSCI1010 |
| Programming I Lab | CSCI1010L |
| Programming II | CSCI2010 |
| Programming II Lab | CSCI2010L |
| Algorithm Analysis | CSCI2020 |
| Systems Programming | CSCI2025 |
| Systems Programming Lab | CSCI2025L |
| Computer Organization & Design | CSCI2035 |
| Database Systems Theory | CSCI2055 |
| Operating Systems | CSCI3040 |
| CS Senior Capstone Experience I | CSCI4098 |
| CS Senior Capstone Experience II | CSCI4099 |

Computer Science Electives: 9 credits. This is fulfilled with any 4000-level Computer Science course or internship approved by the chair. The following non-CS courses will also be accepted.

| | |
|----------------------------|----------|
| Internship | INTR4051 |
| Legal Issues and Info Tech | ISTC3005 |

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 | CRIM3043 |
| Computer Security | CSCI3042 |
| Computer Science-4000 level | CSCI4XXX |
| Web Page Usability & Programming | ISTC3008 |
| Human Computer Interaction | ISTC3015 |

Mathematics Components: 14 credits

| | |
|-----------------------------------|----------|
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Discrete Mathematics I | MATH2050 |

Physics Components: 8 credits

| | |
|-----------------------|-----------|
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |

Criminal Justice

[Justice, Law & Security Website](#)

The major is designed to prepare students for career opportunities in the criminal justice field, to include law enforcement, courts and corrections, and private security, or for further study at the graduate level in criminal justice, criminology or law. To successfully complete the criminal justice major, the following coursework is required:

- 27 Criminal Justice core component credits
- 12 Criminal Justice elective credits
- 15 skills components credits
- 40 academic core credits
- 15 general elective credits: May be fulfilled through a second major, minor or certificate program. Recommended programs are: Criminalistics, Accounting, Computer Forensics and Security, Forensic Psychology, Pre-Law, Sociology, Modern Languages (Spanish or Arabic)
- 11 credits of a foreign language [Spanish or Arabic recommended].

A minimum of 120 credits is required for degree, the last 30 of which must be taken at La Roche College.

Criminal Justice Required Courses: 27 credits (Select CRIM3030 or CRIM3042; CRIM2016 is crosslisted with SOCL2016; CRIM3030 is crosslisted with SOCL3030)

| | |
|---------------------------------------------------|----------|
| Introduction to the Criminal Justice System | CRIM1001 |
| Constitutional Law | CRIM2005 |
| Intelligence Analysis and Presentation Techniques | CRIM2011 |
| Police and Society | CRIM2016 |
| Criminal Law | CRIM3010 |
| Theories of Criminal Deviance | CRIM3030 |
| Applied Criminology | CRIM3042 |
| Criminal Investigations | CRIM3045 |
| Senior Criminal Justice Capstone | CRIM4055 |
| Research Methods in Psychology | PSYC3011 |

Elective Courses: select any 4 courses -12 credits (CRIM3063 is crosslisted with PSYC3063)

| | |
|------------------------------------------------------------------------------|----------|
| CSI: La Roche | CRIM1000 |
| Introduction to Corrections | CRIM2010 |
| Juvenile Delinquency | CRIM2030 |
| Correctional Counseling | CRIM3000 |
| Special Topics in Criminal Justice | CRIM3020 |
| Enterprise & Transnational Crime | CRIM3034 |
| Terrorism | CRIM3036 |
| Crime Scene & Forensics Laboratory | CRIM3040 |
| Criminalistics | CRIM3041 |
| Computer Crime | CRIM3043 |
| Security Management & Loss Prevention | CRIM3046 |
| Administration of Criminal Justice Organizations | CRIM3052 |
| Law Enforcement Communications: Interviewing, Note Taking and Report Writing | CRIM3054 |
| Criminal Behavior: Law & Psychology | CRIM3063 |
| Emergency Preparedness and Crisis Management | CRIM4012 |
| Internship in Criminal Justice | CRIM4051 |
| Independent Study | CRIM4057 |

Skills Component: 15 credits (students may select CRIM2012, Analysis of Criminal Justice Data OR MATH1040, Probability & Statistics; students may select CRIM2018, Professional Responsibility OR PHIL2026 Ethics)

| | |
|-------------------------------------------------------|----------|
| Analysis of Criminal Justice Data | CRIM2012 |
| Professional Responsibility: Legal & Ethical Concepts | CRIM2018 |
| Technical Writing | ENGL2030 |
| Introduction to Cyberspace | ISTC2008 |
| Probability and Statistics | MATH1040 |
| Logic | PHIL1020 |
| Ethics | PHIL2026 |

Criminal Justice - Accelerated Program for Criminal Justice Professionals (APCJP)[Justice, Law & Security Website](#)

Current or prior law enforcement officers with three years of experience in the criminal justice field will receive 48 credits based upon Act 120 Certification or its equivalent and three years of full-time work experience. Most courses are offered in an 8-week accelerated format that is cohort based. Students may select from both on-line, classroom and blended courses. It is possible to graduate from the Accelerated Program with a BA in Criminal Justice and a minor in another academic field within four semesters and one summer session. The APCJP student will complete 72 academic credits at La Roche College. APCJP students with an associate degree and/or academic credit from other institutions will be evaluated on an individual basis. A student's last thirty credits must be earned at La Roche College.

[onmouseout="top.status=''; return true;" onmousedown="top.status='Chat with a company representative';return true;" onmouseover="top.status='Chat with a company representative';return true;">alt="Live chat by SightMax">](#)

The following coursework is required for degree:

- 15 Credits of Criminal Justice Major Requirements
- 6 Credits of Criminal Justice Major Electives
- 12 Credits of Skills Components
- 24 Credits of CORE Curriculum courses
- 15 Credits of General Electives

Academic Core Courses – 24 Credits Required:

APCJP students have been granted 16 credits for La Roche Experience (4) (W); Select Aesthetics (3) (W); Select Religion/Philosophy (3) (W); Select Literature (3) (W); and Select History (3) (W). The following core courses are required:

ENGL1011 College Writing I
 ENGL1012 College Writing II
 MATH1010 College Algebra
 ISTC1005 Practical Computer Applications
 Select Science
 Select Social/Cultural Systems
 Community Integrative
 Global Integrative

Language Requirement – No Credits Required.

APCRP students do not have a modern language requirement but can take language courses as alternatives and may minor in Spanish.

General Electives - 15 Credits

APCJP students have been granted 11 credits (W) from the elective component based upon work experience and prior academic/training courses.

The elective requirement may be fulfilled through a minor or certificate program. Recommended programs are: Criminalistics, Modern Languages, Computer Science, Psychology, Sociology, Accounting, Pre Law, and Management.

Criminal Justice elective courses in excess of the required credit (6) may be taken and applied to the general elective component.

Criminal Justice Required Courses: 12 credits are granted for

- CRIM1001 Introduction to the Criminal Justice System (A)
- CRIM2016 Police and Society (W)
- CRIM3045 Criminal Investigations (A)
- CRIM2011 Intelligence Analysis and Presentation (A)

Criminal Justice Electives: 6 credits are granted for

- CRIM3045 Law Enforcement Communications (A)
- CRIM4051 Internship (W)

Criminal Justice Skills Component: 3 credits are granted for

- CRIM2018 Professional Responsibility or
- PHIL3026 Ethics

Criminal Justice Major Electives : Select 6 credits

| | |
|--------------------------------------------------|----------|
| Introduction to Corrections | CRIM2010 |
| Correctional Counseling | CRIM3000 |
| Enterprise & Transnational Crime | CRIM3034 |
| Terrorism | CRIM3036 |
| Crime Scene & Forensics Laboratory | CRIM3040 |
| Criminalistics | CRIM3041 |
| Computer Crime | CRIM3043 |
| Security Management & Loss Prevention | CRIM3046 |
| Administration of Criminal Justice Organizations | CRIM3052 |
| Independent Study | CRIM4057 |

Criminal Justice Major Requirements: 15 credits (select CRIM3030 or CRIM3042)

| | |
|----------------------------------|----------|
| Constitutional Law | CRIM2005 |
| Criminal Law | CRIM3010 |
| Theories of Criminal Deviance | CRIM3030 |
| Applied Criminology | CRIM3042 |
| Senior Criminal Justice Capstone | CRIM4055 |
| Research Methods in Psychology | PSYC3011 |

Criminal Justice Skills: 12 credits (Select CRIM2012 or MATH1040)

| | |
|-----------------------------------|----------|
| Analysis of Criminal Justice Data | CRIM2012 |
| Technical Writing | ENGL2030 |
| Introduction to Cyberspace | ISTC2008 |
| Probability and Statistics | MATH1040 |
| Logic | PHIL1020 |

Health Science - Option 1

A major in Health Science is meant to provide a bridge between study in the natural sciences and the application of science principles to diverse health-related professions. The B.A. in Health Science is designed to meet the needs of two groups of students: 1)undergraduates preparing for post-baccalaureate study in a health profession; and 2)those already credentialed health professionals who are seeking to complete a Bachelor's degree. For both categories of students, the major in health science combines study in the natural sciences with liberal arts study through the Core Curriculum. The health science major also offers substantial general elective credits, which a student can use to add a second major or a minor, or to further one's background in the sciences or liberal arts.

Health Science Option 1 Major is meant to prepare students for health profession study in graduate school. For example, this option is suitable for undergraduates preparing to attend graduate programs in Occupational Therapy, Physical Therapy, Speech-Language Pathology, Clinical-Nutrition Dietetics, Health Information Management, and Physician Assistant at another institution.

To successfully complete the Health Science (Option 1) major the following coursework is required:

- 40 credits of Science and Mathematics Component
- 15 credits of Health Science Component
- 3 credits of Additional Requirements
- 34 credits of CORE Curriculum courses
- 28 credits of General Electives

A minimum of 120 credits are required for degree, the last 30 of which must be earned at La Roche College.

Health Science Component: 18 credits

| | |
|-------------------|----------|
| Biomedical Ethics | PHIL3027 |
|-------------------|----------|

Science and Mathematics Component: 40 credits

| | |
|------------------|----------|
| Life Science Lab | BIOL1000 |
| Life Science | BIOL1001 |

| | |
|------------------------------------------|-----------|
| Microbiology for Health Sciences | BIOL1015 |
| Microbiology for Health Sciences Lab | BIOL1015L |
| Medical Terminology | BIOL1020 |
| Anatomy & Physiology I | BIOL1023 |
| Human Anatomy and Physiology Lab I | BIOL1023L |
| Anatomy & Physiology II | BIOL1024 |
| Human Anatomy & Physiology II Laboratory | BIOL1024L |
| Principles of Chemistry I | CHEM1007 |
| Principles of Chemistry I Laboratory | CHEM1008 |
| Principles of Chemistry II | CHEM1017 |
| Principles of Chemistry II Laboratory | CHEM1018 |
| College Algebra | MATH1010 |
| Probability and Statistics | MATH1040 |
| Normal and Clinical Nutrition | NSCI1025 |
| Physics for Health Sciences | PHYS1010 |
| Physics for Health Science Laboratory | PHYS1010L |

Mathematics - BA

[Math-Physics Department Website](#)

A major in Mathematics is meant to offer students the opportunity to major in a field whose origins date from the dawn of history and whose ever-increasing pervasiveness in science, engineering, and finance have fashioned it into a sophisticated, altogether modern, mental master-key and to prepare themselves for either graduate study in a wide range of disciplines, or admission to a professional school, or entry into industry, or simply to enrich themselves with an education in a field where logic and imagination combine to create timeless truth and beauty.

To complete the mathematics major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required course work consists of:

- 46 credits of Mathematics courses
- 8 credits of Physics courses
- 34 credits CORE Curriculum courses
- 32 credits of General Electives

Mathematics Core: 46 credits

| | |
|--------------------------------------|----------|
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Analytic Geometry & Calculus III | MATH2030 |
| Ordinary Differential Equations | MATH2031 |
| Discrete Mathematics I | MATH2050 |
| Discrete Mathematics II | MATH2051 |
| Linear Algebra | MATH3015 |
| Complex Analysis | MATH3035 |
| Probability and Statistics I | MATH3040 |
| Probability and Statistics II | MATH3045 |
| History of Mathematics | MATH4003 |
| Modern Abstract Algebra | MATH4015 |
| Geometry | MATH4020 |
| Real Analysis | MATH4035 |
| Junior-Senior Seminar in Mathematics | MATH4090 |

Physics Component: 8 credits

| | |
|-----------------------|-----------|
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |

Mathematics - BS

[Math-Physics Department Website](#)

A major in Mathematics is meant to offer students the opportunity to major in a field whose origins date from the dawn of history and whose ever-increasing pervasiveness in science, engineering, and finance have fashioned it into a sophisticated, altogether modern, mental master-key and to prepare themselves for either graduate study in a wide range of disciplines, or admission to a professional school, or entry into industry or simply to enrich themselves with an education in a field where logic and imagination combine to create timeless truth and beauty.

To complete the mathematics major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required course work consists of the following:

- 46 credits in the mathematics core
- 7 credits in Computer Science
- 12 credits in Physics
- 34 credits in CORE Curriculum courses
- 21 credits of General Electives

Computer Science: 7 credits

| | |
|----------------------------------|-----------|
| Introduction to Computer Science | CSCI1002 |
| Programming I | CSCI1010 |
| Programming I Lab | CSCI1010L |

Mathematics Core: 46 credits

| | |
|--------------------------------------|----------|
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Analytic Geometry & Calculus III | MATH2030 |
| Ordinary Differential Equations | MATH2031 |
| Discrete Mathematics I | MATH2050 |
| Discrete Mathematics II | MATH2051 |
| Linear Algebra | MATH3015 |
| Complex Analysis | MATH3035 |
| Probability and Statistics I | MATH3040 |
| Probability and Statistics II | MATH3045 |
| History of Mathematics | MATH4003 |
| Modern Abstract Algebra | MATH4015 |
| Geometry | MATH4020 |
| Real Analysis | MATH4035 |
| Junior-Senior Seminar in Mathematics | MATH4090 |

Physics: 12 credits

| | |
|------------------------|-----------|
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |
| Physics III | PHYS2030 |
| Physics III Laboratory | PHYS2030L |

Mathematics - Industrial Engineering

[Math-Physics Department Website](#)

A 3 + 2 program available in conjunction with the University of Pittsburgh School of Engineering, this program leads to a B.S. degree in Mathematics from La Roche College, and a B.S.E. in Industrial Engineering from the University of Pittsburgh. Students will complete three years of study at La Roche College and two at the University of Pittsburgh.

To complete the dual major, a total of 162 credits is required, 105 from La Roche College and 57 from the University of Pittsburgh. The required coursework consists of:

- 42 credits in mathematics, 6 of which will be earned at the University of Pittsburgh (note that students have options within the courses shown below)
- 12 credits in Physics
- 8 credits in Chemistry
- 3 credits in Accounting
- 7 credits in Computer Science
- 3 credits of technical elective selected with the approval of the academic advisor
- 57 credits in Industrial Engineering taken at the University of Pittsburgh
- 30 credits to satisfy the remaining Core Curriculum requirements not covered above

Accounting Course: 3 credits

| | |
|-----------------------|----------|
| Managerial Accounting | ACCT2013 |
|-----------------------|----------|

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

| | |
|-----------------------------------|----------|
| Numerical Computing I | CSCI4050 |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Analytic Geometry & Calculus III | MATH2030 |
| Ordinary Differential Equations | MATH2031 |
| Discrete Mathematics I | MATH2050 |
| Discrete Mathematics II | MATH2051 |
| Linear Algebra | MATH3015 |
| Probability and Statistics I | MATH3040 |
| Probability and Statistics II | MATH3045 |
| Modern Abstract Algebra | MATH4015 |
| Real Analysis | MATH4035 |

Physics Courses: 12 credits

| | |
|------------------------|-----------|
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |
| Physics III | PHYS2030 |
| Physics III Laboratory | PHYS2030L |

Required: Chemistry- 8 credits

| | |
|---------------------------------|----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |

Required: Computer Science- 7 credits

| | |
|----------------------------------|-----------|
| Introduction to Computer Science | CSCI1002 |
| Programming I | CSCI1010 |
| Programming I Lab | CSCI1010L |

National Security Studies

[Justice, Law & Security Website](#)

To download a National Security Studies major brochure [CLICK HERE](#).

The "National Security Studies" major is, of necessity, interdisciplinary in nature. It also requires a strong internship or co-op program to enhance the student's employment opportunities. The major has rigorous requirements and students are advised that their future employment will normally require the successful completion of a comprehensive background investigation.

A major in National Security Studies is meant to prepare students for career opportunities with federal and state agencies, that have as part of their mission the defense of the homeland or the implementation of U.S. Foreign Policy and strategic objectives; multinational corporations that require personnel with research, analytical and communication skills; and for further study at the graduate level

Students must maintain a minimum QPA of 3.2 and need to earn a minimum of a "C" in all courses taken. The program requires that the graduate possess the following skills:

- A reading competency in one of the required foreign languages
- The ability to produce written reports based on research, correlation, and analysis
- Oral presentation skills, to include computer facilitated presentations
- Knowledge of statistical techniques
- Knowledge of computer applications and data management systems.

At the beginning of a student's junior and senior year, a committee composed of the department chairs, or their representative, of the Justice, Law, and Security, International Studies, History and Modern Language Departments will review the progress of all students enrolled in the program. Students whose QPA falls below 3.2, whose foreign language reading ability is inadequate, or who exhibit behavioral or academic deficiencies that would, in the judgment of the reviewers, make future employment in the national security field unlikely, will be placed on probation or disenrolled from the major.

A minimum of 120 credits is required for degree, the last 30 of which must be earned at La Roche College.

To complete the "National Security Studies" major, the following course work is required:

- 20 Arabic or Spanish language credits
- 18 National Security Studies" major required credits
- 12 "National Security Studies" major elective credits
- 6 Foreign Area Studies credits
- 24 Skills Component credits
- 37 Core Curriculum credits
- 3 credit internship or co-op credits

Major Requirements: 18 credits

| | |
|---------------------------------------------------|----------|
| Macroeconomics | ADMG1005 |
| Terrorism | CRIM3036 |
| Global Politics | INST2001 |
| Intelligence Analysis and Presentation Techniques | NSCS2011 |
| National Security & Intelligence: Senior Seminar | NSCS4005 |
| History of Political Thought | POLI3015 |

National Security Studies Electives: 12 credits

| | |
|----------------------------------------------|----------|
| Enterprise & Transnational Crime | CRIM3034 |
| Computer Crime | CRIM3043 |
| International Political Economy | INST3003 |
| Financial Investigation and Analysis | NSCS3015 |
| Emergency Preparedness and Crisis Management | NSCS4012 |
| National Security-Independent Study | NSCS4057 |
| Islam in the World | POLI2045 |
| Introduction to Psychology | PSYC1021 |
| Interpersonal & Group Dynamics | PSYC3030 |

Requirements: Foreign Area Studies: 6 credits

| | |
|------------------------------|----------|
| History of Latin America | HIST2035 |
| Contemporary Central America | HIST3005 |



East Asian History
History & Politics of Africa
History & Politics of the Middle East

INST3028
POLI3019
POLI3045

Skills Component: 24 credits

Advanced Practical Computer Applications
Management Of Information Systems
Networking
Data Base Management Systems
Probability and Statistics
Business Intelligence
Research Methods
Internship

ISTC1006
ISTC2021
ISTC2030
ISTC2045
MATH1040
NSCS3010
NSCS3011
NSCS4051

Radiologic Technology

The radiologic technologist, or radiographer, performs sophisticated diagnostic x-ray tests to uncover a wide range of medical conditions. Radiologic technology is offered through an affiliation with the [Ohio Valley General Hospital School of Radiography](#) (Kennedy Township, PA). Students successfully completing this program are awarded an Associate in Health Science degree and are then eligible to sit for the national certification examination given by the American Registry of Radiologic Technologists.

The radiologic technology program consists of a total of 66 required credits. Basic science and Core Curriculum courses (totaling 40 credits) are taught at La Roche College, while professional courses in radiologic technology and clinical training (totaling 26 credits) are conducted at [Ohio Valley General Hospital](#). Ohio Valley General Hospital School of Radiography is accredited by the **Joint Review Committee on Education in Radiologic Technology** (JRCERT ~ 20 North Wacker Drive, Suite 900 | Chicago, Illinois 60606-2901 | Phone:312-704-5300 | Website: www.jrcert.org)

Ohio Valley General Hospital/La Roche College Radiography Program Mission Statement:

The Ohio Valley General Hospital/La Roche College Radiography Program will meet the needs of the communities we serve by offering a radiologic technology program that provides an environment for the development of competent and professional future radiologic technologists by offering a solid clinical and theoretical background in the Radiologic Sciences.

Fundamental Goals:

- To provide a quality education in the radiologic sciences in accordance with the JRCERT Standards
- To provide a curriculum that enables students to successfully meet all Core Clinical Competency requirements established by the ARRT
- To prepare students for the ARRT's national certification examination in radiography
- To equip students with entry-level diagnostic technologist skills

Admissions Criteria and Guidelines:

- 18 years of age by October 1st of first fall semester
- High school graduate or general equivalency diploma
- Minimum GPA of 2.5 in high school or in 12 credits from post-secondary institution
- Algebra II and Biology (high school or post-secondary) with a minimal grade of C
- Math and English proficiency as demonstrated by placing into MATH1010/1010A and ENGL1011
- Completion of 4 hours documented career shadowing with a registered radiologic technologist in a hospital setting
- Attendance records from high school or recent employer
- Two letters of recommendation from teachers or recent employers
- Completion of Technical Standards*
- Satisfactory results of a screening for illegal drug use**
- Willingness to submit to a criminal background check**

This is a specialized program. As such, merit scholarships previously awarded to students are not transferable to this program. Previously awarded La Roche Merit Scholarships are void upon acceptance to the Rad Tech Program.

Admission Guidelines:

- Nine students are accepted to the radiography program each year. Interviews for acceptance begin in January and continue until all nine positions are filled. Interested candidates are therefore encouraged to apply early.

-Interested candidates can apply to the radiography program by completing a La Roche College admission application. You can [click here](#) to download an application in PDF format.

-Career Shadowing appointments are conducted at Ohio Valley General Hospital Monday through Friday from 7:00 a.m. until approximately 11:30 a.m. Appointments may be scheduled by calling Ohio Valley General Hospital School of Radiography at 412-777-6210.

-COMPASS testing appointments may be made by contacting La Roche College's Academic Enrichment Office at 412-546-1231. A five-dollar testing fee will apply.

* Technical Standards testing ensures that applicants have the ability to perform the basic physical tasks required for the profession of Radiologic Technology

** Drug screenings and background checks are conducted by Ohio Valley General Hospital at summer orientation before the first fall semester. Students who test positive for illegal drugs or refuse to grant permission for the criminal background check will forfeit their position in the radiography program and will lose their deposit.

Courses

The required course work consists of:

26 credits in radiologic technology (taught at Ohio Valley General Hospital School of Radiography):

| | |
|---------------------------|----------|
| Radiologic Technology I | HSCU2001 |
| Clinical Education I | HSCU2002 |
| Radiography Technology II | HSCU2003 |
| Clinical Education II | HSCU2004 |
| Radiologic Technology III | HSCU2005 |
| Clinical Education III | HSCU2006 |
| Radiologic Technology IV | HSCU2007 |
| Clinical Education IV | HSCU2008 |
| Radiologic Technology V | HSCU2009 |
| Clinical Education V | HSCU2010 |
| Radiologic Technology VI | HSCU2011 |
| Clinical Education VI | HSCU2012 |
| Radiographic Review | HSCU2013 |

Core Curriculum: 21 credits

| | |
|---------------------------------|-----------|
| College Writing I | ENGL1011 |
| College Writing II | ENGL1012 |
| Global/Community Course | GLBL/COMM |
| Practical Computer Applications | ISTC1005 |
| Introduction to Psychology | PSYC1021 |
| CORE Courses/SELECT | SEL |
| CORE Courses/SELECT | SEL |

Natural Science & Mathematics: 22 credits

| | |
|-----------------------------|----------|
| Life Science Lab | BIOL1000 |
| Life Science | BIOL1001 |
| Medical Terminology | BIOL1020 |
| Anatomy & Physiology I | BIOL1023 |
| Anatomy & Physiology II | BIOL1024 |
| College Algebra | MATH1010 |
| Physics for Health Sciences | PHYS1010 |

Applied Physics Minor

[Math-Physics Department Website](#)

A total of 24 credits is required for completion of a minor in Applied Physics. Students must achieve a minimum GPA of 2.0 in the following courses to qualify for the minor. NOTE: All labs are zero (0) credits and must be taken with the corresponding course.

Required Courses:

| | |
|-----------------------|-----------|
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |

| | |
|--------------------------------------|-----------|
| Physics III | PHYS2030 |
| Physics III Laboratory | PHYS2030L |
| Analog Electronics (Electronics I) | PHYS2080 |
| Electronics I Laboratory | PHYS2080L |
| Digital Electronics (Electronics II) | PHYS3080 |
| Electronics II Laboratory | PHYS3080L |

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

| | |
|-------------------------------------|-----------|
| Computational Physics | PHYS3075 |
| Electronic Communication | PHYS3082 |
| Electronic Communication Laboratory | PHYS3082L |
| Physics of Information Theory | PHYS4075 |
| Instrumentation Physics | PHYS4080 |
| Instrumentation Physics Laboratory | PHYS4080L |

Biology - Molecular Biology Minor

To complete a minor in molecular biology, a minimum of 24 credits must be taken in biology. The student can expect to take three academic years to complete the minor because many upper level biology courses are offered on a two-year cycle.

Note: Prerequisites for Molecular Biology and Laboratory include General and Organic Chemistry (CHEM1001, CHEM1002, CHEM1003, CHEM1004, CHEM2015 or permission of instructor).

Required Courses: 12 credits

| | |
|-------------------------------|----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| Molecular Biology | BIOL4030 |
| Molecular Biology Laboratory | BIOL4031 |

Select at least 12 additional credits from the following courses:

| | |
|-------------------------|----------|
| Microbiology | BIOL2025 |
| Genetics | BIOL3013 |
| Genetics Laboratory | BIOL3014 |
| Cell Biology | BIOL3026 |
| Biochemistry I | BIOL3036 |
| Biochemistry Laboratory | BIOL3037 |
| Biochemistry II | BIOL3038 |
| Immunology | BIOL4019 |
| Immunology Laboratory | BIOL4020 |

Biology Minor

To complete a minor in biology, a minimum of 22 credits must be taken in biology. In addition to the 8 credits of required course work, students must take a minimum of 14 additional biology credits in 2000 level courses or above. The student can expect to take three academic years to complete the minor, because many upper level biology courses are offered on a two-year cycle.

Required Courses: 8 credits

| | |
|-------------------------------|----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |

Chemistry Minor

[Chemistry Department Website](#)

To complete a minor in chemistry, a minimum of 23 chemistry credits must be taken. In addition to required courses, students must choose at least 3 additional credits from any chemistry course 2000 level or above. The student can expect to take three academic years to complete the minor because many upper level chemistry courses are offered on a two-year cycle.

Required Chemistry Courses: (Select CHEM3011/L or CHEM4032/L or CHEM4033/L)

| | |
|---------------------------------|-----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytical Chemistry I | CHEM3011 |
| Analytical Chemistry Laboratory | CHEM3011L |
| Physical Chemistry I | CHEM4032 |

Physical Chemistry Laboratory
Physical Chemistry II
Physical Chemistry II Laboratory
Chemistry Elective

CHEM4032L
CHEM4033
CHEM4033L
CHEMXXXX

Computer Science Minor

[Computer Science Department Website](#)

A minor in Computer Science is an opportunity for students to fulfill career or personal interests, and/or to facilitate in depth study in a field of secondary interest.

Minors must be completed within the student's graduation timeline. A minimum GPA of 2.0 must be achieved in the following courses to qualify for this minor.

To complete a minor in computer science, a minimum of 23 credits must be taken in computer science in accordance with the following schedule.

17 credits in Required Courses and a minimum of 6 additional 2000+ level computer-science credits.

Computer Science Minor Electives: Choose 6 Credits from the following 2000+ Level courses

| | |
|-----------------------------------------|----------|
| Systems Programming | CSCI2025 |
| Analog Electronics | CSCI2030 |
| Computer Organization & Design | CSCI2035 |
| Database Systems Theory | CSCI2055 |
| Digital Electronics (Electronics II) | CSCI3030 |
| Electronic Communication | CSCI3032 |
| Operating Systems | CSCI3040 |
| Compiler Design | CSCI4010 |
| Introduction to Software Engineering | CSCI4020 |
| Telecommunications I | CSCI4045 |
| Telecommunications II | CSCI4046 |
| Advanced Database Theory | CSCI4055 |
| Introduction to Artificial Intelligence | CSCI4070 |
| Discrete Mathematics II | MATH2051 |

Required Courses: 17 credits

| | |
|----------------------------------|-----------|
| Introduction to Computer Science | CSCI1002 |
| Programming I | CSCI1010 |
| Programming I Lab | CSCI1010L |
| Programming II | CSCI2010 |
| Programming II Lab | CSCI2010L |
| Algorithm Analysis | CSCI2020 |
| Discrete Mathematics I | MATH2050 |

Computer Security & Forensics Minor

As new technology continues to play an ever-increasing role in our society, so do the opportunities for its exploitation. Computer hackers now routinely threaten private citizens, businesses and governments. Effectively combating these threats will require a new type of professional who has expertise in both disciplines, criminal justice and technology. In law enforcement, there is a need for professionals that can join the fight against cyber crime, cyber terrorism, identity theft, and the exploitation of minors. In business, there is a need for professionals with the necessary technology skills for recognizing and mitigating the threats and vulnerabilities of computers and networks. The Computer Security and Forensics minor brings together the disciplines of technology and criminal justice to uniquely prepare students for careers at the intersection of these two fields.

To successfully complete the Computer Security and Forensics minor, a minimum of 18 credits are required.

Please note, there are separate requirements for Criminal Justice majors and Information Systems Technology/Computer Science Majors.

Requirements for All Majors:

| | |
|-----------------------------------|----------|
| Computer Crime | CRIM3043 |
| Computer Forensics Investigations | CRIM4030 |
| Computer Security | CSCI3042 |
| Networking | ISTC2030 |

Requirements for Criminal Justice Majors:

| | |
|----------------------------------|-----------|
| Introduction to Computer Science | CSCI1002 |
| Programming I | CSCI1010 |
| Programming I Lab | CSCI1010L |

Requirements for Information Systems Technology/Computer Science Majors:

| | |
|---------------------------------------------|----------|
| Introduction to the Criminal Justice System | CRIM1001 |
| Criminal Law | CRIM3010 |

Criminal Justice Minor

[Justice, Law & Security Website](#)

15 credits are required for completion of a minor in Criminal Justice inclusive of the following courses and three criminal justice electives (9 credits) with at least one upper-division course (3000 level or higher).

Minor Requirements: 6 credits (Select CRIM2005 or CRIM3010)

| | |
|---------------------------------------------|----------|
| Introduction to the Criminal Justice System | CRIM1001 |
| Constitutional Law | CRIM2005 |
| Criminal Law | CRIM3010 |

Medical Technology Minor

The Medical Technology Minor is meant to be paired with the B.A. in Biology major. Required coursework is offered during the day only; three academic years are needed to complete the minor coursework, followed by a senior year, 30 credit hour, externship at a hospital-based school of medical technology (accredited by the National Accrediting Agency for Clinical Laboratory Sciences-NAACLS). Students apply for acceptance at accredited medical technology programs-La Roche College does not place students into specific medical technology schools. Information on accredited programs can be obtained from the Coordinator of Health Science Programs.

To successfully complete the Medical Technology Minor, the following coursework is required:

- 38 credits of Medical Technology Requirements
- 22 credits of Biology Electives as preparation for the Medical Technology externship

Biology Electives: 22 credits

| | |
|------------------------------------------------|----------|
| Comparative Vertebrate Anatomy & Physiology I | BIOL2021 |
| Comparative Vertebrate Anatomy & Physiology II | BIOL2022 |
| Microbiology | BIOL2025 |
| Genetics | BIOL3013 |
| Immunology | BIOL4019 |
| Immunology Laboratory | BIOL4020 |
| Molecular Biology | BIOL4030 |

Medical Technology Minor Requirements: 38 credits

| | |
|----------------------------------|-----------------|
| Analytical Chemistry I | CHEM3011 |
| Analytical Chemistry Laboratory | CHEM3011L |
| Biochemistry I | CHEM3036 |
| Biochemistry Laboratory | CHEM3037 |
| Internship in Medical Technology | HSCG4041 & 4043 |

Political Science Minor

The goal of the political science minor is to offer La Roche students exposure to the general study of political science, and to gain a basic understanding of the political science sub-fields of American Politics and Comparative Politics. Outcomes of the political science minor are: achievement of a general understanding of the American political system; achieving the ability to assess and analyze differing governments and political systems in various parts of the world; and understanding key concepts in political thought.

REQUIRED COURSES: 15 credits required for minor, divided among three (3) credit required courses and 2 (3)three credit advanced Political Science courses:

Required Courses: 9 credits

| | |
|-------------------------------------|---------------|
| Comparative Government | POLI/INST3021 |
| Introduction to American Government | POLI1022 |
| History of Political Thought | POLI3015 |

Required Electives: 6 credits-Any two 3000-level-Political Science- 3 credit courses:

| | |
|------------------------------|----------|
| Political Science 3000-level | POLI3XXX |
| Political Science 3000-level | POLI3XXX |

Pre-law Minor

[Justice, Law & Security Website](#)

Law schools look for students with critical thinking skills and problem solving abilities, as well as strong writing and oral communication skills. The courses required for completion of a Pre-Law Minor should help students develop those types of skills.

Three academic years are estimated for the Pre-Law Minor with respect to fall/spring course rotation and prerequisites. Students interested in preparing for the LSAT examination should consult with the chair of the Justice, Law, and Security Department for assistance. Completion of this minor alone may not necessarily facilitate adequate preparation for this professional credential.

30 credits are required for completion of the Pre-Law Minor. In addition to the required courses shown below, students must take the following:

One 2000-level English course

Two upper-level courses selected from the following departments: Philosophy, Psychology, Sociology and Criminal Justice

Required Courses (Select SPHC1001 or ADMG3024 or CRIM2011; Note CRIM2005 is crosslisted with POLI2005)

| | |
|---------------------------------------------------|----------|
| Professional Presentations | ADMG3024 |
| Constitutional Law | CRIM2005 |
| Intelligence Analysis and Presentation Techniques | CRIM2011 |
| Advanced Exposition | ENGL3037 |
| A History of American Values, Beliefs and Ideas | HIST3036 |
| Logic | PHIL1020 |
| Ethics | PHIL2026 |
| Introduction to American Government | POLI1022 |
| Constitutional Law | POLI2005 |
| Modern Public Speaking | SPCH1001 |

Forensic Psychology

The Department of Psychology, in coordination with the Department of Law, Justice and Security, offers a certificate in Forensic Psychology. The certificate will be awarded to students who successfully complete the course requirements and demonstrate a basic understanding and knowledge of selected subject matter in Psychology and Criminal Justice.

Required Courses: 24 credits

| | |
|---------------------------------------------|----------|
| Introduction to the Criminal Justice System | CRIM1001 |
| Analysis of Criminal Justice Data | CRIM2012 |
| Theories of Criminal Deviance | CRIM3030 |
| Introduction to Psychology | PSYC1021 |
| Research Methods in Psychology | PSYC3011 |
| Abnormal Psychology | PSYC3023 |
| Criminal Behavior: Law and Psychology | PSYC3063 |
| Forensic Psychology | PSYC3065 |

Athletic Training

Athletic Training Program

Athletic training is an allied health profession that is recognized by the American Medical Association. Certified Athletic Trainers (ATC), under the supervision of a licensed physician, provide care for athletes and those who are physically active within these areas of clinical practice:

- prevention
- recognition, evaluation and assessment;
- treatment, rehabilitation, and reconditioning
- organization and administration; and
- professional development and responsibility.

Certified athletic trainers are specialists in the area of sports medicine, which is a general term that refers to a very broad scope of care and services that are necessary to maintain the overall health and performance of those who are physically active or who participate in sports.

Employment and career opportunities

Certified athletic trainers are employed by high schools, colleges and universities, professional athletic teams, private sports medicine centers, rehabilitation clinics, hospitals, health and fitness-related settings, the military, and corporations. Athletic trainers can also pursue career growth options in equipment development, corporate fitness, rehabilitation facilities, orthopedics, and nutrition and weight management.

The La Roche College-Duquesne University Affiliation

In this program, students majoring in athletic training complete a pre-professional program at La Roche College (designed to take a minimum of two years), and then transfer to Duquesne University to complete their professional phase in athletic training (designed to take another two years). Students who successfully complete this program earn a Bachelor of Science in Athletic Training from Duquesne University.

The Duquesne Athletic Training Curriculum

Student professional preparation at Duquesne is directed toward the development of specified competencies in the following domains: risk management and injury prevention, pathology of injury and illnesses, assessment and evaluation, acute care of injury and illness, pharmacology, therapeutic modalities, therapeutic exercise, general medical conditions and disabilities, nutrition, health care administration, psychosocial intervention and referral, and professional development and responsibilities.

Accreditation and Certification

Duquesne University's athletic training education program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The American Academy of Family Physicians, the American Academy of Pediatrics, the American Orthopedic Society for Sports Medicine, CAAHEP, and the National Athletic Trainers' Association cooperate to establish, maintain and promote the standards for the quality of CAAHEP-accredited educational programs in athletic training.

Graduates of the Duquesne program in athletic training will be eligible to sit for the National Athletic Trainers' Association Board of Certification Examination, as well as be eligible for Pennsylvania Athletic Trainer Certification.

Admission to the Athletic Training Program

Freshman admission: All students admitted to La Roche College who intend to major in athletic training will be initially designated as "Athletic Training candidates". Athletic Training candidates will be automatically considered for full admission to the athletic training major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA of 2.75. The high school curriculum must have included at least:

4 Units of English
1 Unit in Social Studies or Foreign Language
7 Units in Math and Science
4 Electives

In addition, prospective students must demonstrate evidence of extracurricular activities during high school and have the ability to meet all of the medical and performance/technical standards of Duquesne University's program. The pre-professional phase is completed at La Roche College in two years. The La Roche College portion of this program requires three courses (with labs) to be taken at Duquesne University. Students are expected to provide their own transportation. This program will require the student to take summer classes.

Students then apply to Duquesne University for the professional phase. La Roche College is guaranteed an allotment of five students every year. In event that more than five have entered the program, only the top five will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science Faculty.

Transfer admission: Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in athletic training. Each student will be evaluated individually by the Coordinator of Health Science Programs.

Admission to Duquesne University

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche athletic training major must submit a Duquesne University Application for Undergraduate Admissions by Dec 1st for consideration for the following fall semester at Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

Academic requirements for admission to Duquesne University for the professional phase of the athletic training program include:

- successful completion of all professional course work with a 3.0 cumulative QPA at La Roche College, and a "C" or better in all courses
- a "B" or better in ATHTR 201 (Essential Concepts and Techniques in Athletic Training) and ATHTR 202 (Pre-Professional Practicum in AT)
- recommendation by the La Roche Pre-professional Health Committee
- Documentation of current C.P.R. Certification (including adult, infant, and child CPR)
- completion of a physical examination and other health requirements
- recommendation of the Department of Athletic Training upon completion of a personal interview.

Curriculum

The pre-professional phase at La Roche College consists of 67 credits to be completed over a two-year period, with course requirements outlined below.

The professional phase at Duquesne University consists of 63 credits completed over an additional two-year period. Students in this program also have an option to pursue a joint degree program leading to a Master of Science in Education, a Master of Occupational Therapy, or a Master of Physician Assistant.

To complete the Pre-Professional Phase at La Roche College the following coursework is required:

- 37 credits of Major Requirements (includes 5 credits of Athletic Training courses taken as PCHE courses)
- 30 credits of CORE Curriculum courses (see program guide for specific courses that will meet Duquesne requirements)

Major Requirements: 37 credits

| | |
|-----------------------------------------------------------|-----------|
| General Biology I | BIOL1003 |
| General Biology Laboratory I | BIOL1005 |
| Medical Terminology | BIOL1020 |
| Anatomy & Physiology I | BIOL1023 |
| Human Anatomy and Physiology Lab I | BIOL1023L |
| Anatomy & Physiology II | BIOL1024 |
| Human Anatomy & Physiology II Laboratory | BIOL1024L |
| Principles of Chemistry I | CHEM1007 |
| Principles of Chemistry I Laboratory | CHEM1008 |
| Probability and Statistics | MATH1040 |
| Physics for Health Sciences | PHYS1010 |
| Physics for Health Science Laboratory | PHYS1010L |
| Introduction to Psychology | PSYC1021 |
| Introduction to Computer Science: Bits, Bytes and Beyond. | SLSC1005 |

Chemistry - Chemical Engineering

[Chemistry Department Website](#)

One of several 3 + 2 programs available in conjunction with the University of Pittsburgh School of Engineering, this program leads to a B.S. degree in Chemistry from La Roche College, and a B.S.E. in Chemical Engineering from the University of Pittsburgh. Students will complete three years of study at La Roche College and two years at the University of Pittsburgh.

To complete the dual major, a total of 154 credits is required, 99 from La Roche College and 55 from the University of Pittsburgh. The required course work consists of

- 32 credits in the Chemistry Core
- 35 additional credits of other science and mathematics courses
- 55 credits from the University of Pittsburgh School of Engineering
- 31 credits of CORE Curriculum courses

Chemistry Core: 32 credits

| | |
|------------------------------------|-----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II | CHEM2016 |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytical Chemistry I | CHEM3011 |
| Analytical Chemistry Laboratory | CHEM3011L |
| Analytical Chemistry II | CHEM3012 |
| Analytical Chemistry II Laboratory | CHEM3012L |
| Physical Chemistry I | CHEM4032 |
| Physical Chemistry Laboratory | CHEM4032L |
| Physical Chemistry II | CHEM4033 |
| Physical Chemistry II Laboratory | CHEM4033L |

Other Science and Mathematics Courses: 35 credits

| | |
|-----------------------------------|----------|
| Introduction to Computer Science | CSCI1002 |
| Programming I | CSCI1010 |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Analytic Geometry & Calculus III | MATH2030 |
| Ordinary Differential Equations | MATH2031 |
| Linear Algebra | MATH3015 |
| Physics I | PHYS1032 |
| Physics II | PHYS1033 |

Chemistry - Environmental

[Chemistry Department Website](#)

This program is designed for students wishing to pursue a career in chemistry as it is applied to environmental science. This is a joint academic program between La Roche College and Duquesne University leading to a Bachelor of Science degree in Environmental Chemistry from La Roche College and a Master of Science degree in Environmental Science and Management from Duquesne University. Students will complete three years of undergraduate study at La Roche College and two years of graduate study in the Environmental Science and Management Program (ESM) at Duquesne University. Only the requirements for the Bachelor of Science degree are listed here. Consult the Duquesne University Environmental Science and Management program guide for the additional course work required for the Master of Science degree.

A minimum of 120 credits is required to complete the environmental chemistry major. The required course work consists of:

- 38 credits in the Chemistry Component including the Chemistry Core
- 27 credits in the mathematics and science component
- 27 credits in the ESM program at Duquesne University
- 28 credits of CORE Curriculum courses

Chemistry Component: 38 credits

| | |
|------------------------------------|-----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II | CHEM2016 |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytical Chemistry I | CHEM3011 |
| Analytical Chemistry Laboratory | CHEM3011L |
| Analytical Chemistry II | CHEM3012 |
| Analytical Chemistry II Laboratory | CHEM3012L |
| Biochemistry I | CHEM3036 |

| | |
|----------------------------------|-----------|
| Biochemistry Laboratory | CHEM3037 |
| Physical Chemistry I | CHEM4032 |
| Physical Chemistry Laboratory | CHEM4032L |
| Physical Chemistry II | CHEM4033 |
| Physical Chemistry II Laboratory | CHEM4033L |
| Seminar in Chemistry I | CHEM4055 |
| Seminar in Chemistry II | CHEM4059 |

Mathematics & Science Component: 27 credits

| | |
|-----------------------------------|-----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |

Computer Science - Industrial Engineering

[Computer Science Department Website](#) To complete the dual major, a total of 162 credits is required, 105 from La Roche College, and 57 from the University of Pittsburgh. The required coursework to obtain the La Roche College degree in Computer Science consists of:

- 24 credits of computer-science courses
- 8 credits in Chemistry
- 30 credits in Mathematics
- 12 credits in Physics
- 3 credits in Accounting
- 9 computer application credits (taken at University of Pittsburgh)
- 31 credits Core Curriculum Requirements.

CS - Requirements: 24 credits

| | |
|----------------------------------|-----------|
| Introduction to Computer Science | CSCI1002 |
| Programming I | CSCI1010 |
| Programming I Lab | CSCI1010L |
| Programming II | CSCI2010 |
| Programming II Lab | CSCI2010L |
| Algorithm Analysis | CSCI2020 |
| Systems Programming | CSCI2025 |
| Systems Programming Lab | CSCI2025L |
| Computer Organization & Design | CSCI2035 |
| Operating Systems | CSCI3040 |

CS-Chemistry Requirements: 8 credits

| | |
|---------------------------------|----------|
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |

Mathematics Componets: 30 credits

| | |
|-----------------------------------|----------|
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Analytic Geometry & Calculus III | MATH2030 |
| Ordinary Differential Equations | MATH2031 |
| Discrete Mathematics I | MATH2050 |
| Discrete Mathematics II | MATH2051 |
| Linear Algebra | MATH3015 |
| Probability and Statistics I | MATH3040 |
| Probability and Statistics II | MATH3045 |

Physics: 12 credits

| | |
|------------------------|-----------|
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |
| Physics III | PHYS2030 |
| Physics III Laboratory | PHYS2030L |

Required: Accounting Component: 3 credits

| | |
|-----------------------|----------|
| Managerial Accounting | ACCT2013 |
|-----------------------|----------|

Occupational Therapy

The Occupational Therapy Profession

Occupations are the essence of productive living. Occupational therapists focus on the occupations used by people to live full, independent, quality lives. Occupations or activities of daily living include work or education, self-care, play/leisure and the effect that rest has on these activities. The goal of this profession is to maximize a person's ability to perform culturally appropriate daily occupations, which is an important value in today's healthcare system.

Occupational therapists work with persons to promote an individualized, self-determined balance of occupations throughout the lifespan. Occupational performance is developed and enhanced by treating the "whole person" and attending to physical, psychological, emotional, sociocultural and spiritual issues, as influenced by the environment.

Occupational therapy direct and indirect service delivery contexts are exceedingly diverse. They include but are not limited to acute care, industrial rehabilitation, physical rehabilitation, mental health, long-term care, home care, case management, consultation, school systems, early intervention, community services, education, disease prevention and health promotion. Important related concepts such as quality of life, production function, independent living, full access, social-political integration, multiculturalism, and balanced lifestyles are central to occupational therapy practice. As a result, graduates of this program must be able to evaluate emerging information, anticipate new practice opportunities, develop new knowledge, participate in research, guide professional decisions, cooperate effectively with a variety of groups, and serve as professional leaders and community advocates.

Employment and Career Opportunities

Opportunities for employment can be found in healthcare centers, public and private schools, rehabilitation centers, psychiatric institutions, skilled nursing facilities, private practices, community agencies, independent living centers, hospitals, home healthcare and industry. Occupational therapists are increasingly assuming supervisory, case management and community-based roles.

The La Roche College-Duquesne University Affiliation

In this program, students majoring in occupational therapy complete a pre-professional program at La Roche College (designed to take a minimum of two years), and then transfer to Duquesne University to complete their professional phase in occupational therapy (designed to take another three years). Students who successfully complete this program earn a Bachelor of Science (BS) in Health Sciences after year four, and a Master of Occupational Therapy (MOT) at the end of the program. Both degrees are awarded by Duquesne University.

Accreditation and Certification

Duquesne University's occupational therapy program is accredited by the Accreditation Council for Occupational Therapy Education.

Graduates of the Duquesne program will be eligible to sit for the national certification examination administered by the National Board for Certification in Occupational Therapy and, if successful, will be certified as an Occupational Therapist, Registered (OTR) and can apply for state licensure, if required.

Admission to the Occupational Therapy Program

Freshman admission:

All students admitted to La Roche College who intend to major in occupational therapy will be initially designated as "Occupational Therapy candidates". Occupational Therapy candidates will be automatically considered for full admission to the occupational therapy major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA 3.0. The high school curriculum must have included at least seven units in Math and Science.

In addition, prospective students must demonstrate evidence of extracurricular activities during high school and knowledge of the occupational therapy profession as evidenced by 60 hours of documented shadowing experiences with a licensed occupational therapist. An additional 60 hours of shadowing or community service must also be completed. Ideally, at least 30 hours of these shadowing experiences ought to be completed prior to starting the freshman year. All 120 hours must be completed prior to admission to the professional phase.

The pre-professional phase is completed at La Roche College in two years. Students then apply to Duquesne University for the professional phase. The completion of the La Roche College phase requires taking a minimum of two courses at Duquesne University in the sophomore year and- summer courses. Students are expected to provide their own transportation. La Roche College is guaranteed an allotment of five students every year. In the event that more than five students have entered the program, only the top five will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science faculty.

Transfer admission:

Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in occupational therapy. Each student will be evaluated individually by the Coordinator of Health Science Programs.

Admission to Duquesne University

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche occupational therapy major must submit a Duquesne University Application for Undergraduate Admissions by Dec 1st for consideration for the following fall semester at Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

Curriculum

The pre-professional phase at La Roche College consists of 68 credits to be completed over a two-year period, with the required coursework below. The professional phase at Duquesne University consists of 112 credits completed over a three-year period.

To complete the Pre-Professional Phase at La Roche College the following coursework is required:

- 35 credits of Science and Math (includes 7 credits of Occupational Therapy courses taken as PCHE courses)
- 33 credits of CORE Curriculum courses (see program guide for courses that will fulfill Duquesne requirements)

Science and Math Requirements: 35 credits

General Biology I

General Biology Laboratory I

Medical Terminology

BIOL1003

BIOL1005

BIOL1020

Anatomy & Physiology I
Human Anatomy and Physiology Lab I
Anatomy & Physiology II
Human Anatomy & Physiology II Laboratory
Probability and Statistics
Physics for Health Sciences
Physics for Health Science Laboratory
Introduction to Computer Science: Bits, Bytes and Beyond.

BIOL1023
BIOL1023L
BIOL1024
BIOL1024L
MATH1040
PHYS1010
PHYS1010L
SLSC1005

Physical Therapy

The Physical Therapy Profession

Physical therapy is a dynamic profession with an established theoretical base and widespread clinical applications in the preservation, development and restoration of optimal physical function throughout the lifespan. The American Physical Therapy Association (APTA) has published the following vision statement: By 2020, physical therapy will be provided by physical therapists who are doctors of physical therapy, recognized by consumers and other health care professionals as the practitioners of choice to whom consumers have direct access for the diagnosis of, interventions for and prevention of impairments, functional limitations and disabilities related to movement, function and health.

Physical therapists engage in an examination process that includes taking the history, conducting a review of body systems, and administering tests and measures to identify potential and existing functional problems. Physical therapists develop treatment programs and conduct re-examinations to achieve anticipated goals and outcomes. Charges for physical therapy

Earning a License to Practice.

Students must graduate from an accredited physical therapy program in order to be permitted to sit for state licensing examinations. Graduates generally take the state licensing examination in the state or jurisdiction in which they wish to practice and must pass the exam in order to receive a license. Graduation from a physical therapy program alone does not permit the graduate to practice and it is illegal to practice physical therapy without a license.

Employment and Career Opportunities

Graduates have opportunities to specialize in areas like: pediatrics, sports medicine, rheumatology, orthopedics, cardiopulmonary rehabilitation, critical care, geriatrics, rehabilitation, community education, home care, management, and teaching. Graduates are in demand and are hired into hospitals, skilled nursing facilities, rehabilitation centers, outpatient facilities, public schools, and some graduates start their own private practices.

The La Roche College-Duquesne University Affiliation

In this program, students majoring in physical therapy complete a pre-professional program at La Roche College (designed to take a minimum of three years), and then transfer to Duquesne University to complete their professional phase in physical therapy (designed to take another three years). Students who successfully complete this program earn a Bachelor of Science in biology from La Roche College after year four, and a Doctor of Physical Therapy (D.P.T.) from Duquesne University at the end of year six.

Admission to the Physical Therapy Program

Freshman admission

All students admitted to La Roche College who intend to major in physical therapy will be initially designated as "Physical Therapy candidates". Physical Therapy candidates will be automatically considered for full admission to the physical therapy major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA of 3.0. The high school curriculum must have included seven units in Math and Science.

In addition, prospective students must demonstrate evidence of extracurricular activities during high school and knowledge of the Physical Therapy profession as evidenced by 100 hours of documented shadowing experiences with a licensed Physical Therapist in various clinical settings. Students complete the 100 credits of the pre-professional phase at La Roche College in three years, then students apply to Duquesne University for the professional phase. La Roche College is guaranteed an allotment of three students every year. In event that more than three students have entered the program, only the top three will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science faculty.

Transfer admission

Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in physical therapy. Each student will be evaluated individually by the Coordinator of Health Science Programs.

Admission to Duquesne University

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche physical therapy major must submit a Duquesne University Application for Undergraduate Admissions by December 1st of the year prior to anticipated transfer to Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

Academic requirements for admission to Duquesne University for the professional phase of the physical therapy program include:

successful completion of all pre-professional course work with a 3.0 cumulative QPA at La Roche College, and a "C" or better in all courses
recommendation by the La Roche Pre-professional Health Committee
documentation of current C.P.R. Certification (including adult, infant, and child CPR)
documentation of a minimum of 100 hours of volunteer, paid, or shadowing experience in physical therapy at two separate clinical sites
completion of a physical examination and other health requirements

Curriculum

The pre-professional phase at La Roche College consists of 97 credits to be completed over a three-year period, in the coursework detailed below.

To complete the Pre-Professional Phase at La Roche College the following coursework is required:

- 66 credits of Physical Therapy Major Requirements (includes 1 credit "Introduction to Physical Therapy" course taken as a PCHE course)

- 31 credits of CORE Curriculum courses

Major Requirements: 69 credits

| | |
|-----------------------------------|-----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory II | BIOL1006 |
| General Biology Laboratory II | BIOL1006 |
| Genetics | BIOL3013 |
| Genetics Laboratory | BIOL3014 |
| Cell Biology | BIOL3026 |
| Biochemistry I | BIOL3036 |
| Biochemistry Laboratory | BIOL3037 |
| Biochemistry II | BIOL3038 |
| Seminar in Biology | BIOL4059 |
| General Chemistry I | CHEM1001 |
| General Chemistry II | CHEM1002 |
| General Chemistry Laboratory I | CHEM1003 |
| General Chemistry Laboratory II | CHEM1004 |
| Organic Chemistry I | CHEM2015 |
| Organic Chemistry I-Laboratory | CHEM2015L |
| Organic Chemistry II | CHEM2016 |
| Organic Chemistry II-Laboratory | CHEM2016L |
| Analytic Geometry and Calculus I | MATH1032 |
| Analytic Geometry and Calculus II | MATH1033 |
| Probability and Statistics | MATH1040 |
| Biomedical Ethics | PHIL3027 |
| Physics I | PHYS1032 |
| Physics I Laboratory | PHYS1032L |
| Physics II | PHYS1033 |
| Physics II Laboratory | PHYS1033L |
| Introduction to Psychology | PSYC1021 |

Physician Assistant Studies

The Physician Assistant Profession

Physician assistants are health professionals licensed who practice medicine in collaboration with physicians. Physician assistants are qualified by graduation from an accredited physician assistant educational program and certification by the National Commission on Certification of Physician Assistants. Within the physician/physician assistant relationship, physician assistants exercise autonomy in medical decision-making and provide a broad range of diagnostic and therapeutic services. The clinical role of physician assistants includes primary and specialty care in both medical and surgical practice settings. Physician assistant practice is centered on patient care but may also include educational, research and administrative activities.

Employment and Career Opportunities

Physician assistants are employed by hospitals, ambulatory care clinics, managed care organizations, the military and many other settings.

Career options for master-degreed physician assistants include opportunities in clinical roles in primary care and clinical subspecialties, teaching in physician assistant educational programs, administrative roles in healthcare delivery systems, and research.

The La Roche College-Duquesne University Affiliation

In this program, students majoring in physician assistant complete a pre-professional program at La Roche College (designed to take a minimum of two years), and then transfer to Duquesne University to complete their professional phase in physician assistant (designed to take another three years). Students who successfully complete this program earn a Bachelor of Science in Health Sciences after successful completion of year four, and a Master of Physician Assistant Studies degree upon completion of the program; both degrees are awarded from Duquesne University.

Accreditation and Certification

The Duquesne University program in physician assistant is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Graduates of this program are eligible to sit for the Physician Assistant National Certifying Examination, administered by the National Commission on Certification of Physician Assistants.

Admission to the Physician Assistant Studies Program

Freshman admission: All students admitted to La Roche College who intend to major in Physician Assistant Studies will be initially designated as "Physician Assistant Studies candidates". Physician Assistant Studies candidates will be automatically considered for full admission to the Physician Assistant Studies major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA of 3.0. The high school curriculum must have included at least seven units in Math and Science.

In addition, prospective students must demonstrate evidence of extracurricular activities during high school and knowledge of the Physician Assistant profession as evidenced by documented shadowing experiences with a Physician Assistant in various clinical settings. Students complete 63 credits in the pre-professional phase at La Roche College in two years, then apply to Duquesne University for the professional phase. La Roche College is guaranteed an allotment of two students every year. In the event that more than two students have entered the program, only the top two will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science faculty.

Transfer Admission

Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in physician assistant studies. Each student will be evaluated individually by the Coordinator of Health Science Programs.

Admission to Duquesne University

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche physician assistant studies major must submit a Duquesne University Application for Undergraduate Admissions by December 1st for consideration for the following fall semester at Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

Academic requirements for admission to Duquesne University for the professional phase of the physician assistant program include:

successful completion of all pre-professional course work with a 3.0 cumulative QPA at La Roche College, and a "C" or better in all courses
recommendation by the La Roche Pre-professional Health Committee
documentation of current C.P.R. Certification (including adult, infant, and child CPR)
completion of a physical examination and other health requirements.

To complete the Pre-Professional phase at La Roche College the following coursework is required:

- 30 credits of Science and Math
- 33 credits of additional courses to fulfill most of the Duquesne University core curriculum

Science and Math Courses: 30 credits

| | |
|-----------------------------------------------------------|-----------|
| General Biology I | BIOL1003 |
| General Biology II | BIOL1004 |
| General Biology Laboratory I | BIOL1005 |
| General Biology Laboratory II | BIOL1006 |
| Microbiology for Health Sciences | BIOL1015 |
| Microbiology for Health Sciences Lab | BIOL1015L |
| Principles of Chemistry I | CHEM1007 |
| Principles of Chemistry I Laboratory | CHEM1008 |
| Principles of Chemistry II | CHEM1017 |
| Principles of Chemistry II Laboratory | CHEM1018 |
| Probability and Statistics | MATH1040 |
| Physics for Health Sciences | PHYS1010 |
| Physics for Health Science Laboratory | PHYS1010L |
| Introduction to Psychology | PSYC1021 |
| Introduction to Computer Science: Bits, Bytes and Beyond. | SLSC1005 |
| Modern Public Speaking | SPCH1001 |

Speech-Language Pathology

The Speech-Language Pathology Profession

Speech and language disorders affect the way people talk and understand. These disorders may range from simple sound substitutions to not being able to use speech and language at all. Speech-language pathologists are specialists in human communication, its development, and its disorders. They are professionally educated to evaluate and treat persons with communication problems.

Speech-language pathologists provide many specialized professional services which include:

helping people with articulation disorders learn proper production of speech sound;
assisting people who stutter to increase the amount of fluent speech and to cope with this disorder;
assisting people with aphasia to re-learn language and speech skills and sentence order to compensate for lost language and speech skills;
counseling people with speech and language disorders and their families to understand their disorder to achieve normal communication in education, social and vocational settings; and
helping people understand the types and severity of communication disorders.

Employment and Career Opportunities

Speech-language pathologists are employed by public and private schools, hospitals, rehabilitation centers, nursing care facilities, community clinics, colleges and universities, private offices, state and local health departments, state and federal governmental agencies.

Career growth options are in specialty practice areas in gerontology and pediatrics, university instruction, program administration, and consulting.

The La Roche College-Duquesne University Affiliation

In this program, students majoring in speech-language pathology complete a pre-professional program at La Roche College (designed to take a minimum of four semesters), and then transfer to Duquesne University to complete their professional phase in speech-language pathology (designed to take another three half years). Students who successfully complete this program earn a Bachelor of Science in Health Sciences after successful completion of year four, and a Master of Speech-Language Pathology degree upon completion of the program; both degrees are awarded from Duquesne University.

Graduates of this program are eligible to sit for the certification examination leading to a Certificate of Clinical Competence (CCC) from the American Speech-Language-Hearing Association. In many states a license is also required. Specialized teacher certification may be required to work in public schools.

Admission to the Speech-Language Pathology Program

Freshman Admission:

All students admitted to La Roche College who intend to major in Speech-Language Pathology will be initially designated as "Speech-Language Pathology candidates". Speech-Language Pathology candidates will be automatically considered for full admission to the Speech-Language Pathology major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA of 3.0 The high school curriculum must have included at least:

4 Units of English
 1 Unit in Social Studies or Foreign Language
 7 Units in Math and Science
 4 Electives

In addition, prospective students must demonstrate evidence of extracurricular activities during high school. The pre-professional phase is completed at La Roche College in two years. The completion of the La Roche College phase requires taking a minimum of two courses at Duquesne University. Students are expected to provide their own transportation. Students then apply to Duquesne University for the professional phase. La Roche College is guaranteed an allotment of three students every year. In event that more than three students have entered the program, only the top three will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science faculty.

Transfer Admission:

Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in speech-language pathology. Each student will be evaluated individually by the Coordinator of Health Science Programs.

Admission to Duquesne University

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche speech-language pathology major must submit a Duquesne University Application for Undergraduate Admissions by December 1st for consideration for the following fall semester at Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

Academic requirements for admission to Duquesne University for the professional phase of the speech-language pathology program include:

successful completion of all pre-professional course work with a 3.0 cumulative QPA at La Roche College, and a "C" or better in all courses
 recommendation by the La Roche Pre-professional Health Committee
 documentation of current C.P.R. Certification (including adult, infant, and child CPR)
 completion of a physical examination and other health requirements

Curriculum

To complete the Pre-Professional phase the following coursework is required:

- 28 credits of Science and Math courses
- 6 credits of Speech Language Pathology courses to be taken at Duquesne University
- 30 additional credits designed to fulfill most of Duquesne Core Curriculum

Major Requirments: 36 credits

Physics for Health Sciences PHYS1010

Science and Math Requirements: 28 credits

| | |
|-----------------------------------------------------------|-----------|
| Life Science Lab | BIOL1000 |
| Life Science | BIOL1001 |
| Anatomy & Physiology I | BIOL1023 |
| Human Anatomy and Physiology Lab I | BIOL1023L |
| Human Communication | CMET1001 |
| Communication Between Cultures | CMET2003 |
| Physics for Health Science Laboratory | PHYS1010L |
| Introduction to Psychology | PSYC1021 |
| Child Development | PSYC2022 |
| Introduction to Computer Science: Bits, Bytes and Beyond. | SLSC1005 |
| Other Divisions ---> | |

La Roche Course Catalogue

Wednesday, December 14, 2011

Other Divisons

Programs of Study

Majors

| | |
|---------------------|-------|
| Self-Designed Major | BA/BS |
| Undeclared | Other |

Minors

| | |
|---------------------------|-------|
| Sustainable Studies Minor | Other |
|---------------------------|-------|

Course Descriptions

Detail

ACCT1001
ACCOUNTING CONCEPTS
Credits (Min/Max): 3/3

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

ACCT2003
ACCOUNTING I
Credits (Min/Max): 3/3

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 reconciliations, and receivables.

ACCT2004
ACCOUNTING II
Credits (Min/Max): 3/3

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: ACCT2003 - ACCOUNTING I

ACCT2013
MANAGERIAL ACCOUNTING
Credits (Min/Max): 3/3

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: ACCT2003 - ACCOUNTING I

ACCT2025
ACCOUNTING WITH COMPUTERS
Credits (Min/Max): 3/3

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.

ACCT3001
TAXATION I
Credits (Min/Max): 3/3

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: ACCT2004 - ACCOUNTING II

ACCT3002
TAXATION II
Credits (Min/Max): 3/3

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: ACCT2004 - ACCOUNTING II

ACCT3011
INTERMEDIATE ACCT. I
Credits (Min/Max): 3/3

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: ACCT2004 - ACCOUNTING II

ACCT3012
INTERMEDIATE ACCT. II
Credits (Min/Max): 3/3

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: ACCT2004 - ACCOUNTING II

ACCT3014
COST ACCOUNTING
Credits (Min/Max): 3/3

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.

PreRequisites: ACCT2013 - MANAGERIAL ACCOUNTING

ACCT4001
ADVANCED ACCOUNTING
Credits (Min/Max): 3/3

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

PreRequisites: ACCT3012 - INTERMEDIATE ACCT. II

ACCT4002
AUDITING
Credits (Min/Max): 3/3

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

ACCT4040
SPECIAL TOPICS IN ACCOUNTING
Credits (Min/Max): 3/3

A customized study of selected topics in the field of accounting. Students will be guided by a department faculty member to acquaint them with current issues in the profession.

ACCT4051
ACCOUNTING INTERNSHIP I
Credits (Min/Max): 1/6

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.

ACCT4052
ACCOUNTING INTERNSHIP II
Credits (Min/Max): 1/3

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.

ACCT4057
ACCOUNTING-INDEPENDENT STUDY
Credits (Min/Max): 1/3

The independent study is intended to give an opportunity to students with superior ability to pursue an area of study in accounting that is very specific in focus and/or not covered in existing offerings.

ACCT5020
ETHICS & PROFESSIONAL RESPONSIBILITIES IN ACCOUNTING
Credits (Min/Max): 3/3

This course addresses the accountant's ethical and professional responsibilities when dealing with clients, perspective clients, field work, fellow employees, and within society itself. The student will be presented with numerous situations or case studies where an individual's ethical standards are challenged. Also addressed in the course is how a business's work environment can affect the ethical decision making of its employees.

ACCT5035
MODERN ACCOUNTING INFORMATION SYSTEMS
Credits (Min/Max): 3/3

This course examines the risk and control issues specific to the use of information systems in an organization and how these issues affect presentations on the financial statements. Students will analyze and evaluate accounting information systems that support business processes as well as management control and decision-making. Students will learn to determine and document user requirements, communicate results, and support decision-making. Also, students will develop the ability to identify key issues, analyze information, and formulate appropriate and feasible recommendations in regard to accounting information systems.

ACCT5040
THE BUSINESS OF READING & WRITING
Credits (Min/Max): 3/3

This course introduces the student to writings from books and journals that will impact the manner in which students perceive their careers, supervisors, and subordinates. While many of the readings are authored by people from the business world, writings from other fields relevant to the course topics may be used.

ACCT5050
FRAUD EXAMINATION
Credits (Min/Max): 3/3

This course highlights controls that prevent fraud and abuse, explores the most common asset theft fraud schemes and teaches the skills needed to determine if inappropriate actions have occurred. It explores the prevailing theories of criminal behavior related to white collar crime, as well as the basics of the regulatory, criminal justice and civil justice systems, relevant federal and state statutes and regulations related to fraud. It also covers fraud prevention and investigation tools related to asset misappropriation.

ACCT6020
ADVANCED FORENSIC ACCOUNTING
Credits (Min/Max): 3/3

This course focuses on detailed financial analysis of various corporate reports to determine if unusual trends appear. Bank fraud, money laundering and bankruptcy proceedings will be studied. Students will study the provisions of the Sarbanes-Oxley Act and distinguish the procedures of fraud investigation from the regular auditing process. This course would be intended to provide students with extended practical guidance and enhance an auditor's abilities to recognize, prevent, and detect financial frauds in organizations. Through case studies, this course will increase students' knowledge about fraud and help students develop the skills to conduct fraud investigations.

ACCT6050
WEALTH MANAGEMENT
Credits (Min/Max): 3/3

Wealth management is an investment advisory discipline that incorporates financial planning, investment portfolio management and a number of aggregated financial services. Wealthy individuals, small business owners, and families who desire the assistance of a credentialed financial advisory specialist call upon wealth managers to coordinate retail banking, estate planning, legal resources, tax professionals and investment management. This course introduces the student these areas of asset management by identifying various strategies and practices that best fit the aforementioned groups who need the skills of a professional financial manager.

ACCT6060
ACCOUNTING FOR NOT-FOR-PROFIT ENTITIES
Credits (Min/Max): 3/3

This course will cover aspects of accounting that are unique to governmental and not-for-profit organizations. Financial reporting for state and local governments will be covered along with accounting for non-profit entities conducting business-type activities. In addition, regulatory, taxation and performance issues will be discussed. Reference is made to pronouncements of the AICPA, FASB, GASB and other authoritative sources.

ACCT6080
CONTEMPORARY ISSUES IN TAXATION
Credits (Min/Max): 3/3

This course will enlighten the student about current tax topics being discussed in Congress or in the court system. An additional focus will be tax planning and compliance.

ACCT6085
INTERNATIONAL ACCOUNTING
Credits (Min/Max): 3/3

This course examines major international dimensions of financial accounting. Discussion will ensue in regard to national and cultural influences on accounting and on the accounting profession. This course investigates financial regulation and varying financial reporting standards in selected foreign countries. It also introduces students to managerial accounting issues raised by international businesses. Analysis and use of the International Accounting Standards are the focus. This course will enable students to acquire skills and perspectives for dealing with international accounting and business issues.

ACCT6099
APPLIED RESEARCH
Credits (Min/Max): 3/3

This course requires the masters students to apply their knowledge to a field work assignment assisting a business or businesses in solving accounting problems that the company is experiencing. Students will identify the organizations for their project and have them approved by the instructor. Their efforts will culminate in a written report and class presentation outlining the issues identified and the steps taken to solve each problem.

ADMG1001
INTRO TO ADMINISTRATION & MGMT
Credits (Min/Max): 3/3

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.

ADMG1005
MACROECONOMICS
Credits (Min/Max): 3/3

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.

ADMG1006
MICROECONOMICS
Credits (Min/Max): 3/3

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.

ADMG1018
FUNDAMENTALS OF MANAGEMENT
Credits (Min/Max): 3/3

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.

ADMG2007
ADVERTISING & P.R.(MRKT2007)
Credits (Min/Max): 3/3

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 MRKT2007*

ADMG2009
BUSINESS LAW I
Credits (Min/Max): 3/3

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

ADMG2010
BUSINESS LAW II
Credits (Min/Max): 3/3

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: ADMG2009 - BUSINESS LAW I

ADMG2018
ORGANIZATIONAL BEHAVIOR
Credits (Min/Max): 3/3

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: ADMG1018 - FUNDAMENTALS OF MANAGEMENT

ADMG2021
MARKETING MANAGEMENT(MRKT2021)
Credits (Min/Max): 3/3

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 ADMG2021*

ADMG2025
HUMAN RESOURCES ADMINISTRATION
Credits (Min/Max): 3/3

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: ADMG1018 - FUNDAMENTALS OF MANAGEMENT

ADMG2037
FINANCIAL SURVIVAL & ECONOMIC WELL BEING
Credits (Min/Max): 3/3

This course is open to all students regardless of their major. It will provide participants with the opportunity to study the concepts and principles of sound personal financial planning and management. It will deal with the basic questions of career choices.

ADMG2040
INNOVATION & ENTREPRENEURSHIP
Credits (Min/Max): 3/3

This course will focus on the entrepreneurial process-from ideation to the implementation of a new business venture. 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.

ADMG3003
INT'L POLITICAL ECONOMY (INST3003)
Credits (Min/Max): 3/3

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 INST3003*

ADMG3008
BUSINESS & SOCIETY
Credits (Min/Max): 3/3

This policy-oriented course provides discussion and analysis of current issues and problems of an environmental nature confronting private corporate enterprise. Major areas analyzed are comparative economic systems, the political process, corporate social responsibility, the legal environment, human value systems and the person in management.

ADMG3010
BUSINESS ORGANIZATION & REGULATION
Credits (Min/Max): 3/3

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: ADMG2009 - BUSINESS LAW I

ADMG3015
PROJECT MANAGEMENT
Credits (Min/Max): 3/3

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.

ADMG3024
PROFESSIONAL PRESENTATION
Credits (Min/Max): 3/3

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.

ADMG3040
INNOVATION & ENTREPRENEURSHIP
Credits (Min/Max): 3/3

This course will focus on the entrepreneurial process-from ideation to the implementation of a new business venture. 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.

ADMG4019
SPORTS ADMINISTRATION & MGMT (MRKT4019)
Credits (Min/Max): 3/3

This course will provide a comprehensive, current and concise introduction to sports management and administration principles and practices. Functional overviews of industry skills are presented and exposure to organizational theory, law and sports governance, facilities and venues, sports marketing, ethical applications, broadcasting, sales, event management, agency, advertising, sponsorship, international sport, collegiate and amateur sport will be addressed in detail. *Cross-listed with MRKT4019*

ADMG4020
OPERATIONS MANAGEMENT
Credits (Min/Max): 3/3

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.

ADMG4036
ORGANIZATION THEORY
Credits (Min/Max): 3/3

This course is intended to provide the graduating administration and management student with a forum for exploring and comparing different theoretical approaches to the organizational aspects of modern institutions, both public and private. The participant would have the opportunity to acquire an understanding of the different ways in which organization theory is approached by scholars in different disciplines, i.e., sociologists, political scientists and public and business administrators.

ADMG4040
BUSINESS ETHICS: TOPICS & ISSUES A&M
Credits (Min/Max): 3/3

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.

ADMG4051
ADMINIST & MGMT INTERNSHIP I

Credits (Min/Max): 1/6

A field experience in an administrative or managerial position, supervised by a field instructor as well as college faculty.

ADMG4052
ADMINIS & MGMT INTERNSHIP II
Credits (Min/Max): 1/3

A field experience in an administrative or managerial position, supervised by a field instructor as well as college faculty.

ADMG4055
SEMINAR-BUSINESS POLICY
Credits (Min/Max): 3/3

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.

ADMG4057
ADMINISTRATIVE & MANAGEMENT- INDEPENDENT STUDY
Credits (Min/Max): 1/3

Independent study is intended to allow a student to pursue studies in advanced or special topics.

ARTH1017
HISTORY OF ART I:PREHISTORIC TO GOTHIC
Credits (Min/Max): 3/3

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.

ARTH1018
HISTORY OF ART II:RENAISSANCE TO MODERN
Credits (Min/Max): 3/3

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.

ARTH2002
HISTORY OF GRAPHIC DESIGN
Credits (Min/Max): 3/3

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.

ARTH2032
HISTORY OF ID & ARCHITECTURE (IDSN2032)
Credits (Min/Max): 3/3

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 relationships between plan development, structural concepts, technology and materials.*Cross-listed with IDSN2032*

ARTH2039
HISTORY OF ID & ARCHITECTURE II (IDSN2039)
Credits (Min/Max): 3/3

A survey of interiors and architecture from the Renaissance through the 18th century, with special emphasis on styles and furniture.*Cross-listed with IDSN2039*

ARTH2045
CONTEMPORARY DESIGN
Credits (Min/Max): 3/3

"Under Development"

ARTH3016
HISTORY OF FILM(GCDN3016)
Credits (Min/Max): 3/3

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 GCDN3016*

ARTH3020
HISTORY OF CONTEMPORARY ART
Credits (Min/Max): 3/3

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!

ARTH3032
HISTORY OF ID & ARCHITECTURE III (IDSN3032)
Credits (Min/Max): 3/3

A 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. *Cross-listed with IDSN3032*

BIOL1000
LIFE SCIENCE LABORATORY
Credits (Min/Max): 1/1

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.

BIOL1001
LIFE SCIENCE(SLSC1011)
Credits (Min/Max): 3/3

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 SLSC1011*

BIOL1002
INTRO TO THE HUMAN BODY:SYSTEMS THAT MOVE YOU
Credits (Min/Max): 3/3

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.

BIOL1003
GENERAL BIOLOGY I
Credits (Min/Max): 3/3

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.

BIOL1004
GENERAL BIOLOGY II
Credits (Min/Max): 3/3

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: BIOL1003 - GENERAL BIOLOGY I

BIOL1005
GENERAL BIOLOGY LAB I
Credits (Min/Max): 1/1

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

BIOL1006
GENERAL BIOLOGY II-LAB
Credits (Min/Max): 1/1

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

BIOL1015
MICROBIOLOGY FOR HEALTH SCIENCES
Credits (Min/Max): 4/4

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.

BIOL1015L
LAB-MICROBIOLOGY FOR HEALTH SCIENCES
Credits (Min/Max): 0/0

Lab for BIOL1015: Microbiology for Health Sciences

BIOL1020
MEDICAL TERMINOLOGY
Credits (Min/Max): 3/3

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.

BIOL1023
ANATOMY & PHYSIOLOGY I
Credits (Min/Max): 4/4

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.

BIOL1023L
ANATOMY & PHYSIOLOGY I-LAB
Credits (Min/Max): 0/0

Laboratory for BIOL1023: Anatomy & Physiology I.

BIOL1024
HUMAN ANATOMY & PHYSIOLOGY II
Credits (Min/Max): 4/4

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: BIOL1023 - ANATOMY & PHYSIOLOGY I

BIOL1024L
HUMAN ANATOMY & PHYSIOLOGY II- LAB
Credits (Min/Max): 0/0

Laboratory for BIOL1024: Anatomy and Physiology II. ♦

BIOL1030
BIOLOGY OF AGING
Credits (Min/Max): 3/3

Focusing on adulthood and later life, this course explores the physiological changes, which occur with human aging, adaptation to those changes and the impact of biological changes on psychosocial functioning.

BIOL2021
COMPARATIVE VERTEBRATE A&P I
Credits (Min/Max): 4/4

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: BIOL1003 - GENERAL BIOLOGY I

BIOL2021L
COMPARATIVE ANATOMY I-LAB
Credits (Min/Max): 0/0

Laboratory for BIOL2021: Comparative Vertebrate Anatomy and Physiology I.

PreRequisites: BIOL1003 - GENERAL BIOLOGY I

BIOL2022
COMPARATIVE VERTEBRATE A&P II
Credits (Min/Max): 4/4

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.

BIOL2022L
COMPARATIVE VERTEBRATE A&P II: LAB
Credits (Min/Max): 0/0

Laboratory for BL 222: Comparative Vertebrate Anatomy and Physiology II.

BIOL2025
MICROBIOLOGY
Credits (Min/Max): 4/4

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.

BIOL2025L
MICROBIOLOGY LAB

Credits (Min/Max): 0/0

Laboratory for BIOL2025 Microbiology.

BIOL3013

GENETICS

Credits (Min/Max): 3/3

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: BIOL1004 - GENERAL BIOLOGY II

BIOL3014

GENETICS LAB

Credits (Min/Max): 1/1

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

BIOL3015

GENERAL ECOLOGY

Credits (Min/Max): 4/4

A general ecology course studying ecosystem and population dynamics. Application of these concepts is made to aquatic and terrestrial ecosystems including current environmental problems. Fieldwork is an integral part of this course. Lecture and laboratory course.

BIOL3015L

ECOLOGY-LAB

Credits (Min/Max): 0/0

Laboratory for BIOL3015 General Ecology.

BIOL3026

CELL BIOLOGY

Credits (Min/Max): 3/3

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.

BIOL3028

PATHOGENIC MICROBIOLOGY: SPECIAL TOPICS

Credits (Min/Max): 2/2

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: BIOL2025 - MICROBIOLOGY

BIOL3028A

EVOLUTION: SPECIAL TOPICS

Credits (Min/Max): 3/3

This course is a study of the development of Darwinian evolution from a historical and scientific perspective. An emphasis is placed on the significance of Darwin's discoveries on the Galapagos Islands, a small island chain off of the coast of Ecuador. Darwin's five week visit to the Galapagos Island in the 1830s was pivotal to the ultimate development of his evolutionary views. This course provides an intensive exploration of the islands, through the eyes of Darwin. Students will be accompanied by the instructor and a local guide in an exploration of flora, fauna, and geology of the various islands and how these wonders contributed to the development of modern evolutionary theory.

BIOL3029

CLINICAL SCIENCE(CHEM3029)

Credits (Min/Max): 3/3

This non-laboratory course provides the background needed to test for increases and decreases in various body enzymes, proteins, electrolytes, cell types, etc. which occur in the body during the disease process. The course deals with the causes of false positives and negatives in various clinical tests. It also provides for basis for interpretation of test results and for indicators of additional testing. *Cross-listed with CHEM3029*

BIOL3032

VERTEBRATE EMBRYOLOGY

Credits (Min/Max): 4/4

Topics include gametogenesis, fertilization, cleavage, gastrulation and the early development of organ systems in vertebrates. Lecture and laboratory course.

BIOL3032L

VERTEBRATE EMBRYOLOGY-LAB

Credits (Min/Max): 0/0

Laboratory for BIOL3032 Vertebrate Embryology.

BIOL3036
BIOCHEMISTRY I(CHEM3036)
Credits (Min/Max): 3/3

An introduction to the biochemical metabolism of the living cell. Cellular structure, macromolecules, metabolic pathways, energy transformations, regulatory mechanisms and molecular genetics are discussed. *Cross-listed with CHEM3036*

PreRequisites: CHEM2015 - ORGANIC CHEMISTRY I

BIOL3037
BIOCHEMISTRY-LAB(CHEM3037)
Credits (Min/Max): 1/1

An introduction to current biochemical techniques including thin layer and column and gas chromatography, electrophoresis, spectrophotometry, and DNA technology. *Cross-listed with CHEM3037*

PreRequisites: CHEM2015L - ORGANIC CHEMISTRY I-LAB

BIOL3038
BIOCHEMISTRY II(CHEM3038)
Credits (Min/Max): 3/3

A continuation of BIOL3036. 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. *Cross-listed with CHEM3038*

BIOL4017
BIOSOLVE I
Credits (Min/Max): 4/4

BioSOLVE (Biology Student Operated Laboratory Venture) is based on a business model where students will collaborate as contractors with service-oriented individuals or institutions to perform specific, applied laboratory research services. In addition, students will participate in community service associated with the organization or project to which BioSOLVE is Contracted. BioSOLVE is organized as a two-semester course, where BioSOLVE I is analogous to the training period of a new employee in a research laboratory. In this course, students will participate in community service associated with the contracted work, study the role of biologists in providing solutions to community and global problems, study and experience the nature of scientific collaborations, learn the theory behind the relevant laboratory methods, develop proficiency in the laboratory techniques needed to perform the specific contracted work, and learn the skills of complete and accurate note-keeping, data processing and scientific writing f

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

BIOL4017L
BIOSOLVE I-LAB
Credits (Min/Max): 0/0

Laboratory for BIOL4017 BioSOLVE I

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

BIOL4018
BIOSOLVE II
Credits (Min/Max): 2/2

BioSOLVE (Biology Student Operated Laboratory Venture) is based on a business model where students collaborate as contractors with service-oriented individuals or institutions to perform specific, applied laboratory research services. In addition, students participate in community service associated with the organization or project to which BioSOLVE is contracted. BioSOLVE is organized as a two-semester course, where BioSOLVE I is analogous to the training period of a new employee in a research laboratory and BioSOLVE II mimics the continued work of the trained employee. In BioSOLVE II, students continue to participate in community service associated with the contracted work, study the role of biologists in providing solutions to community and global problems, and study and experience the nature of scientific collaborations begun in BioSOLVE I. However, the major effort of BioSOLVE II will be dedicated to performing the specific contracted laboratory research for which students were trained in BioSOLVE I,

PreRequisites: BIOL4017 - BIOSOLVE I

BIOL4018L
BIOSOLVE II-LAB
Credits (Min/Max): 0/0

Laboratory for BIOL4018 BioSolve II

BIOL4019
IMMUNOLOGY(CHEM4019)
Credits (Min/Max): 3/3

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. *Cross-listed with CHEM4019*

BIOL4019L
IMMUNOLOGY-LAB
Credits (Min/Max): 1/1

Lab work for BIOL4019 Immunology.

BIOL4020
IMMUNOLOGY-LAB (CHEM4020)
Credits (Min/Max): 1/1

This course introduces laboratory techniques in immunology. *Cross-listed with CHEM4020*

BIOL4030
MOLECULAR BIOLOGY
Credits (Min/Max): 3/3

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: BIOL1004 - GENERAL BIOLOGY II

BIOL4031
MOLECULAR BIOLOGY-LAB
Credits (Min/Max): 1/1

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: BIOL1004 - GENERAL BIOLOGY II

BIOL4051
BIOLOGY INTERNSHIP
Credits (Min/Max): 1/4

A field experience in which the student works under the direction of a professional in an area related to biology. The student must select a faculty member from the Division of Sciences to serve as the academic supervisor. Students are required to complete 45 hours of field/academic work for each credit hour. The academic supervisor will determine the proportion of fieldwork and academic work requirements. A maximum of 4 credit hours may be used as biology elective credit.

BIOL4052
BIOLOGY INTERNSHIP II
Credits (Min/Max): 1/3

A field experience in which the student works under the direction of a professional in an area related to biology. The student must select a faculty member from the Division of Sciences to serve as the academic supervisor. Students are required to complete 45 hours of field/academic work for each credit hour. The academic supervisor will determine the proportion of fieldwork and academic work requirements. A maximum of 4 credit hours may be used as biology elective credit.

BIOL4055
SEMINAR IN BIOLOGY I
Credits (Min/Max): 1/1

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.

BIOL4056
RESEARCH IN BIOLOGY
Credits (Min/Max): 1/4

An individual investigation in the student's field of interest carried out under the supervision of a faculty member in the Division of Sciences. The student is responsible for defining a problem, planning a course of investigation and reporting his/her results in a scientific paper. A maximum of 4 credit hours may be used as biology elective credit.

BIOL4057
BIOLOGY-INDEPENDENT STUDY
Credits (Min/Max): 1/4

This course is designed to allow students to pursue advanced topics in biology or to study an area of biology in more depth. A member of the Division of Sciences must serve as the mentor for the study, and will, together with the student, outline a course of study. Regularly scheduled biology courses may not be taken as Independent Study. A maximum of 4 credit hours may be used as biology elective credit.

BIOL4059
SEMINAR IN BIOLOGY
Credits (Min/Max): 2/2

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.

CFST2010
SURVEY OF HELPING PROFESSIONS & FAMILY POLICY
Credits (Min/Max): 3/3

This course will provide an overview of policies and legislation that directly impact the functioning of parents and their children in the U.S. Some of the topics to be covered include changes in the welfare system, aid to dependent children, immigration policies, and availability of health care.

CFST3013
COUPLE RELATIONSHIPS: AN EXPLORATION OF DIVERSITY
Credits (Min/Max): 3/3

This course will describe the various forms of family relationships in US society, including the traditional nuclear family, single-parenting, gay and lesbian families, and extended family systems. Particular emphasis will be placed on ethnic and socioeconomic diversity and its impact on child rearing practices.

CFST4055
SENIOR SEMINAR
Credits (Min/Max): 3/3

This seminar will be conducted during the student's semester of field experience. Students will explore intervention approaches and techniques in working with families and children, along with strategies for identifying one's values and ethics in working with those in need. Students will conduct critical assessments of the functioning of the agencies in which they are placed, as well as increasing their awareness of professional roles and responsibilities in the helping profession.

CHEM1001
GENERAL CHEMISTRY I
Credits (Min/Max): 3/3

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.

CHEM1002
GENERAL CHEMISTRY II
Credits (Min/Max): 3/3

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.

PreRequisites: CHEM1001 - GENERAL CHEMISTRY I

CHEM1003
GENERAL CHEMISTRY I-LAB
Credits (Min/Max): 1/1

A series of experiments related to the content of CHEM1001 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.

CHEM1004
GENERAL CHEMISTRY II-LAB
Credits (Min/Max): 1/1

A series of experiments related to the content of CHEM1002, 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.

CHEM1007
PRINCIPLES OF CHEM I(SLSC1008)
Credits (Min/Max): 3/3

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 SLSC1008*

CHEM1007PA
PRINCIPALS OF CHEMISTRY FOR PHYSICIAN ASSISTANTS
Credits (Min/Max): 1/1

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. This section will pay particular attention to applications in the field of health science.

CHEM1008
PRINCIPLES OF CHEM I-LAB
Credits (Min/Max): 1/1

Laboratory for CHEM1007 Principles of Chemistry I

CHEM1010
BRAVING THE ELEMENTS
Credits (Min/Max): 3/3

This course, designed especially for the non-science major, explores the fundamental aspects of chemistry in a variety of familiar and often newsworthy contexts. Applications to environmental problems, drug design, plastics and polymers, and alternative energy sources are some of the facets of this important science. A variety of activities will allow students to investigate chemical phenomena. No prior knowledge of chemistry is expected.

CHEM1017
PRINCIPLES/CHEMISTRY II
Credits (Min/Max): 3/3

This course provides an introductory survey of biochemistry, along with biomedical applications. Important biomolecules such as hemoglobin will be discussed, with an emphasis on correlating structure with function. A discussion of intermediary metabolism follows, including an introduction to inborn errors of metabolism. The course concludes with a discussion of molecular including potential biomedical application.

PreRequisites: CHEM1007 - PRINCIPLES OF CHEM I(SLSC1008)

CHEM1018
PRINCIPLES/CHEMISTRY II-LAB
Credits (Min/Max): 1/1

Laboratory for CHEM1017 Principles of Chemistry II

CHEM2013
INTRO TO RESEARCH IN CHEMISTRY
Credits (Min/Max): 1/4

This course provides an opportunity for a student to gain a high degree of proficiency with a particular laboratory procedure or instrument. The student will learn to optimize experimental parameters, refine existing laboratory procedures, and/or develop new applications. A maximum of 4 credit hours may be used as chemistry electives.

CHEM2015
ORGANIC CHEMISTRY I
Credits (Min/Max): 3/3

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: CHEM1002 - GENERAL CHEMISTRY II

CHEM2015L
ORGANIC CHEMISTRY I-LAB
Credits (Min/Max): 1/1

Laboratory for CHEM2015.

PreRequisites: CHEM1004 - GENERAL CHEMISTRY II-LAB

CHEM2016
ORGANIC CHEMISTRY II
Credits (Min/Max): 3/3

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: CHEM2015 - ORGANIC CHEMISTRY I

CHEM2016L
ORGANIC CHEMISTRY II-LAB
Credits (Min/Max): 1/1

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.

CHEM3011
ANALYTICAL CHEMISTRY I
Credits (Min/Max): 4/4

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: CHEM1002 - GENERAL CHEMISTRY II

CHEM3011L
ANALYTICAL CHEMISTRY I-LAB
Credits (Min/Max): 0/0

Laboratory for CHEM3011 Analytical Chemistry I

PreRequisites: CHEM1002 - GENERAL CHEMISTRY II

CHEM3012
ANALYTICAL CHEMISTRY II: INSTRUMENTAL METHODS OF ANALYSIS
Credits (Min/Max): 4/4

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: CHEM3011 - ANALYTICAL CHEMISTRY I

CHEM3012L
ANALYTICAL CHEMISTRY II-LAB
Credits (Min/Max): 0/0

Laboratory for CHEM3012 Analytical Chemistry II

CHEM3015
POLYMER CHEMISTRY
Credits (Min/Max): 3/3

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.

CHEM3024
ENVIRONMENTAL CHEMISTRY
Credits (Min/Max): 3/3

Environmental chemistry is a study of the principles of chemistry as applied to evaluating, understanding, modeling, predicting, and assisting in the correction of adverse anthropogenic environmental interactions. Aspects to be considered include sources, reactions, transport, effects and fates of selected chemical species in various environmental media (water, oil, air, etc.) and the effects of both natural and anthropogenic interactions.

CHEM3026
INORGANIC CHEMISTRY
Credits (Min/Max): 3/3

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.

CHEM3028
CHEMSOLVE:SPECIAL TOPICS
Credits (Min/Max): 0/0

A collection of courses covering a broad range of subjects of special interest. Topics may include: computer applications, environmental topics, ecological applications, optics, photochemistry and photophysics, laboratory instrumentation, and other topics as needed.

CHEM3029
CLINICAL SCIENCE(BIOL3029)
Credits (Min/Max): 3/3

This non-laboratory course provides the background needed to test for increases and decreases in various body enzymes, proteins, electrolytes, cell types, etc. which occur in the body during the disease process. The course deals with the causes of false positives and negatives in various clinical tests. It also provides for basis of interpretation of test results and for indicators of additional testing. *Cross-listed with BIOL3029*

CHEM3036
BIOCHEMISTRY I(BIOL3036)
Credits (Min/Max): 3/3

An introduction to the biochemical metabolism of the living cell. Cellular structure, macromolecules, metabolic pathways, energy transformations, regulatory mechanisms and molecular genetics are discussed. *Cross-listed with BIOL3036*

PreRequisites: CHEM2015 - ORGANIC CHEMISTRY I

CHEM3037
BIOCHEMISTRY I-LAB(BIOL3037)
Credits (Min/Max): 1/1

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

PreRequisites: CHEM2015L - ORGANIC CHEMISTRY I-LAB

CHEM3038
BIOCHEMISTRY II(BIOL3038)
Credits (Min/Max): 3/3

An introduction to current biochemical techniques including thin layer and column and gas chromatography, electrophoresis, spectrophotometry, and DNA technology. *Cross-listed with BIOL3038*

PreRequisites: BIOL3036 - BIOCHEMISTRY I(CHEM3036)

CHEM3045
ORGANIC STRUCTURAL SPECTROSCOPY
Credits (Min/Max): 3/3

This course investigates the combined use of nuclear magnetic resonance, infrared, ultraviolet-visible, and mass spectrometry for the structure determination of unknown organic compounds. Various spectral acquisition techniques will be discussed in the lecture portion and attempted in the lab portion of the course, with emphasis placed on the proper interpretation of correctly acquired spectral data.

CHEM4019
IMMUNOLOGY(BIOL4019)
Credits (Min/Max): 3/3

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. *Cross-listed with BIOL4019*

CHEM4020
IMMUNOLOGY-LAB (BIOL4020)
Credits (Min/Max): 1/1

This course introduces laboratory techniques in immunology. *Cross-listed with BIOL4020*

CHEM4032
PHYSICAL CHEMISTRY I
Credits (Min/Max): 4/4

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: CHEM2016 - ORGANIC CHEMISTRY II

CHEM4032L
PHYSICAL CHEMISTRY I-LAB
Credits (Min/Max): 0/0

Laboratory for CHEM4032 Physical Chemistry I

PreRequisites: CHEM2016L - ORGANIC CHEMISTRY II-LAB

CHEM4033
PHYSICAL CHEMISTRY II
Credits (Min/Max): 4/4

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: CHEM4032 - PHYSICAL CHEMISTRY I

CHEM4033L
PHYSICAL CHEMISTRY II-LAB
Credits (Min/Max): 0/0

Laboratory for CHEM4033.

CHEM4051
CHEMISTRY INTERNSHIP I
Credits (Min/Max): 1/4

A field experience in which the student works under the direction of a professional in an area related to chemistry. The student must select a faculty member from the Division of Sciences to serve as the academic supervisor. Students are required to complete 45 hours of field/academic work for each credit. The academic supervisor will determine the proportion of fieldwork and academic work requirements. A maximum of 4 credit hours may be used as chemistry electives.

CHEM4055
SEMINAR IN CHEMISTRY I
Credits (Min/Max): 1/1

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.

CHEM4056
RESEARCH IN CHEMISTRY
Credits (Min/Max): 1/4

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.

CHEM4057
CHEMISTRY-INDEPENDENT STUDY
Credits (Min/Max): 0/4

This course is designed to allow students to study advanced topics in chemistry. A member of the chemistry department must serve as the mentor for the study and will, together with the student, outline a course of study. Regularly scheduled chemistry courses may not be taken as Independent Study. A maximum of 4 credit hours may be used as chemistry elective credit.

CHEM4059
SEMINAR IN CHEMISTRY II
Credits (Min/Max): 1/1

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.

CHEM4060
FORENSIC CHEMISTRY
Credits (Min/Max): 4/4

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.

CHEM4060L
FORENSIC CHEMISTRY-LAB
Credits (Min/Max): 0/0

Laboratory for CHEM4060.

CMET1001
HUMAN COMMUNICATION(SLSO1008)
Credits (Min/Max): 3/3

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 SLSOC1008*

CMET1002
MASS MEDIA & DIGITAL COMMUNICATION
Credits (Min/Max): 3/3

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.

PreRequisites: CMET1001 - HUMAN COMMUNICATION(SLSO1008)

CMET2001
COMMUNICATION IN ORGANIZATIONS
Credits (Min/Max): 3/3

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.

CMET2003
COMMUNICATION BETWEEN CULTURES
Credits (Min/Max): 3/3

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.

CMET2004
FUND OF COMM FOR DESIGN PROFESS
Credits (Min/Max): 3/3

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.

CMET2005
COMMUNICATION THEORY, RESEARCH & CRITICISM
Credits (Min/Max): 3/3

This course is an introduction to the application of theory and research to mass communication including Internet communication. In addition, the course provides a starting point for students in understanding and creating a critical perspective on mass communication through the lens of specific theoretical perspectives.

PreRequisites: CMET1001 - HUMAN COMMUNICATION(SLSO1008)

CMET2050
DIRECTED STUDY
Credits (Min/Max): 1/3

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.

CMET3001
CRITICAL EVAL OF MASS COMM
Credits (Min/Max): 3/3

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.

CMET3002
NEW MEDIA & DIGITAL COMMUNICATION TECHNOLOGY
Credits (Min/Max): 3/3

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.

CMET3005
MESSAGE DESIGN & MEDIA
Credits (Min/Max): 3/3

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.

CMET3029
SOCIAL PSYCHOLOGY(PSYC/SOCL3029)
Credits (Min/Max): 3/3

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. *Cross-listed with PSYC/SOCL3029*

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

CMET4000
DIRECTED PROFESSIONAL EXPERIENCE
Credits (Min/Max): 1/3

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.

CMET4001
LEGAL ISSUES OF MEDIA & DIGITAL COMMUNICATIONS
Credits (Min/Max): 3/3

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.

CMET4002
BROADCASTING, CABLE & NEW MEDIA
Credits (Min/Max): 3/3

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.

CMET4040
BROADCAST NEWS MEDIA
Credits (Min/Max): 3/3

This course is an overview of television news and the role it plays in society. The course will look at the skills necessary for making a news production successful. It will also examine how a production is structured - maintaining that delicate balancing act of substance versus style.

CMET4050
SENIOR CAPSTONE
Credits (Min/Max): 3/6

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.

CMET4051
COMMUNICATION INTERNSHIP I
Credits (Min/Max): 1/6

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.

CMET4052
COMMUNICATION-INTERNSHIP II
Credits (Min/Max): 1/6

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.

CMET4055
SENIOR SEMINAR
Credits (Min/Max): 3/3

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.

COMGDPFM
PITTSBURGH FILMMAKERS TOPICS
Credits (Min/Max): 3/3

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.

COMM4003
MAKING COMMUNITY IN ANTEBELLUM AMERICA
Credits (Min/Max): 3/3

In this course, we will study the emergence and development of a variety of local and regional communities in the period before the American Civil War. We will examine Native American prophetic and Christian revivalist congregations such as Prophetstown, Mashpee, Brothertown, and the Cherokee Nation; New England Transcendentalist and other perfectionist collectives such as Brook Farm and Thoreau's Walden; and women's reform societies affiliated with the Indian rights and abolitionist movements. By exploring such communities during a period of rapid change and social conflict in the United States, we will gain an appreciation for the diverse forms community may take, the relationships between individuals and communities (and between communities and the nation-state), the function of invented communities as means of addressing individual needs and contesting social inequities, and the ways in which literary texts represent, idealize, and critique these communities-in-the-making.

COMM4009
MEDIA & DEMOCRACY
Credits (Min/Max): 3/3

The concept of community, including individual responsibilities, will be the centerpiece of this course as democracy is ultimately the recognition of individual rights as well as commitment to the intrinsic equality of everyone in a community. Understanding current events, the evolving news process, and critical media concepts such as agenda setting and institutional bias will be an important part of the class. In learning the history and development of both democracy and media, we will examine and debate significant issues and their impact through primary documents such as Supreme Court decisions, the Constitution, FCC orders and regulations, and the commentary and analysis on each.

COMM4013
RULE OF LAW
Credits (Min/Max): 3/3

This course, through the integration of legal, historical and political concepts, introduces students to the rule of law one of the current governing principles of Western civilization and the historical foundation of that civilization's rights and liberties and its role in the American community. By using the rule of law as a guiding principle, this course insures that students develop a perspective on the community and its relationship to the individual that includes an historical knowledge of both the American and international legal systems, the political and social reasons for making a commitment to be governed by the rule of law, and an understanding of law as an essential pillar of American and Global Communities. Students will be introduced to the sometimes conflicting rights and duties of individuals and communities through an examination of selected appellate court cases, which will demonstrate the difficulty in resolving societal issues involving conflict between individuals and communities.

PreRequisites: ENGL1012 - COLLEGE WRITING II

COMM4020
SOCIAL COMMUNITIES IN 20TH CENTURY AMERICA
Credits (Min/Max): 3/3

SOCIAL COMMUNITIES IN 20TH CENTURY AMERICA: What role have social communities played in defining the evolution of the United States? This course explores the nature and power of social communities as sources of social change and of activism in 20th century America. Using social analysis, reading of original documents, 'think description' of social communities, as well as film, videos, and music, we will examine ways in which ordinary Americans-united by shared dreams, common experiences, social class, ideologies, common adherence to a social movement, and other factors-created various types of social communities that responded to challenges but also shaped major political and economic changes in the past century.

COMM4021
LAND & COMMUNITY IN NATIVE AMERICA
Credits (Min/Max): 3/3

Since the arrival of Columbus, Native American and Euro-American communities have struggled over the meaning, value, and use of the land. In this course, we will study the origins of these conflicts, the differing beliefs about the land held by Native and Euro-American peoples, and the ways in which Native and Euro-American communities have affected and adapted to each other. The course utilizes the life and writings of conservationist Aldo Leopold, famous for his essay "The Land Ethic" (1949), as a lens through which to examine these issues.

COMM4021H
LAND & COMMUNITY IN NATIVE AMERICA-HONORS
Credits (Min/Max): 3/3

Since the arrival of Columbus, Native American and Euro-American communities have struggled over the meaning, value, and use of the land. In this course, we will study the origins of these conflicts, the differing beliefs about the land held by Native and Euro-American peoples, and the ways in which Native and Euro-American communities have affected and adapted to each other. The course utilizes the life and writings of conservationist Aldo Leopold, famous for his essay "The Land Ethic" (1949), as a lens through which to examine these issues. Historical records, from treaties to sacred stories to philosophical reflections, will be studied in depth.

COMM4036
VIRTUAL COMMUNITIES & SOCIAL MEDIA
Credits (Min/Max): 3/3

This course will assist the student in examining virtual communities from the perspective of issues related to social media tools. Some areas that will be examined include ethical values, regulations/laws, free speech, content controls, intellectual properties, privacy, security, and safety in virtual communities. We will discuss what we mean by "virtual community" and how we encourage, discuss, analyze, understand, design, and participate in healthy communities in the age of many-to-many social media. Students will need the willingness to immerse in social media practices and develop a notion of how these practices affect self and community.

COMM4038
THE CREATIVE PROCESS
Credits (Min/Max): 3/3

The creative process is the process of change, of development, of evolution in the organization of subjective life - whether individually or within a community/society. Through identification, investigation, application, comparison and analysis of various creative thinking techniques, students will gain the knowledge and confidence required to address and question the ever-changing concept of "community".

COMM4040
SURVIVING ECONOMICALLY IN THE COMMUNITY
Credits (Min/Max): 3/3

This course is open to all students regardless of their major. It will provide participants an overview of personal and family financial planning reviewing financial recordkeeping; planning your spending; planning giving, including financial and time doing community service; tax planning; uses of consumer credit; making buying decisions, insurances, selecting investments, and retirement and estate planning.

CRIM1000
CSI: LA ROCHE
Credits (Min/Max): 3/3

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.

CRIM1001
INTRODUCTION TO CRIMINAL JUSTICE
Credits (Min/Max): 3/3

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.

CRIM2005
CONSTITUTIONAL LAW(POLI2005)
Credits (Min/Max): 3/3

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 POLI2005*

CRIM2010
INTRODUCTION TO CORRECTIONS
Credits (Min/Max): 3/3

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.

CRIM2011
INTELLIGENCE ANALYSIS & PRESENTATION TECHNIQUES (NSCS2011)
Credits (Min/Max): 3/3

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 NSCS2011*

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

CRIM2012
ANALYSIS OF CRIM JUSTICE DATA
Credits (Min/Max): 3/3

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: MATH1010 - COLLEGE ALGEBRA

CRIM2016
POLICE & SOCIETY(SOCL2016)
Credits (Min/Max): 3/3

This course reviews current issues and problems in law enforcement and interrelations with the society-at-large and cultural/ethnic sub-groups. It examines informal exercise of police authority or force, governmental/agency policies, legal requirements, role demands and conflicts experienced by police officers, and the norms of the police sub-culture. *Cross-listed with SOCL2016*

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

CRIM2018
PROFESSIONAL RESPONSIBILITY: LEGAL & ETHICAL CONCEPTS
Credits (Min/Max): 3/3

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: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

CRIM2030
JUVENILE DELINQUENCY(SOCL2030)
Credits (Min/Max): 3/3

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 SOCL2030*

CRIM3010
CRIMINAL LAW
Credits (Min/Max): 3/3

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.

CRIM3011
RESEARCH METHODS FOR JUSTICE, LAW & SECURITY
Credits (Min/Max): 3/3

An introduction to research techniques. Students will learn to form research questions, to select and carry out appropriate research strategies, and to present findings in a logical, clear and concise way.

CRIM3020
CRIME MAPPING:SPECIAL TOPICS IN CRIMINAL JUSTICE
Credits (Min/Max): 3/3

Crime analysis is the systematic examination of multi-faceted crime data. The identification, collection, storage, modification and dissemination of crime data enables law enforcement agencies to identify crime trends, patterns, and modus operandi; advise law enforcement administrators about emerging tactical trends; determine long term strategic trends; and improve operational and administrative effectiveness. Criminal analyst should master the ability to write, brief and disseminate findings to law enforcement stakeholders clearly and concisely. This course will provide an overview of these processes. The course will involve basic familiarization of a GIS (Geographic Information System) that is designed for graphical presentation and analytical discernment.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

CRIM3020D
ADVANCED CRIME SCENE PHOTOGRAPHY :SPECIAL TOPICS IN CRIMINAL JUSTICE
Credits (Min/Max): 3/3

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.

PreRequisites: CRIM3040 - CRIME SCENE INVESTIGATION & FORENSICS

CRIM3020E
VIOLENT OFFENDERS & PRISON COUNSELING:SPECIAL TOPICS IN CRIMINAL JUSTICE
Credits (Min/Max): 3/3

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.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

CRIM3030
THEORIES OF CRIMINAL DEVIANCE (SOCL3030)
Credits (Min/Max): 3/3

An examination of the etiology and major theories of criminality, with special reference to the neoclassical, routine activity, and psychosocial theories of deviance. This course will examine criminal deviance by analyzing both criminal and victim populations, with particular emphasis on crime typology and the analysis of criminal behavior. The responses of the Criminal Justice System and private security experts to criminal behavior from situational crime prevention techniques to correctional treatment methods are explored and discussed. *Cross-listed with SOCL3030*

PreRequisites: ENGL1012 - COLLEGE WRITING II

CRIM3032
COMMUNITY CORRECTIONS
Credits (Min/Max): 3/3

This course is a study of intermediate punishments conducted in a community environment as alternatives to incarceration. It will examine alternatives to incarceration by means of community-based adult and juvenile programs. Mission, structure and operation of probation and parole agencies as well as the role of the courts and prosecutors are examined. The probation, parole and pardon options are also reviewed. Other options will be examined, including work release programs, halfway houses, prerelease, and restitution-based programs.

CRIM3034
ENTERPRISE & TRANSNATIONAL CRIME
Credits (Min/Max): 3/3

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: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

CRIM3036
TERRORISM
Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

CRIM3040
CRIME SCENE INVESTIGATION & FORENSICS
Credits (Min/Max): 3/3

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: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

CRIM3041
CRIMINALISTICS
Credits (Min/Max): 4/4

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.

CRIM3042
APPLIED CRIMINOLOGY
Credits (Min/Max): 3/3

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 of 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.

CRIM3043
COMPUTER CRIME
Credits (Min/Max): 3/3

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.

CRIM3045
CRIMINAL INVESTIGATION
Credits (Min/Max): 3/3

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: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

CRIM3046
SECURITY MANAGEMENT & LOSS PREVENTION
Credits (Min/Max): 3/3

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.

CRIM3048
COURTS & SOCIAL POLICY(SOCL3048)
Credits (Min/Max): 3/3

An analysis of the interrelationship between law and society is presented. the functions, methods and theories of legal systems are covered. An assessment of the determinants and consequences of legal decisions is also presented. *Cross-listed with SOCL3048*

CRIM3050
CONTEMPORARY CORRECTIONS: THEORIES & PRACTICE
Credits (Min/Max): 3/3

Examines contemporary American correctional policies, and their relationship to the American criminal justice system. The nature of correctional institutions, correctional processes and policies will be presented. Current theories, trends and practices in the treatment of offenders, alternatives to traditional modes of incarceration, and problems and innovations in correctional administration will be discussed. Theories of correctional institutions as centers of rehabilitation or punishment will be examined along with public influences on correctional practices and policy development.

CRIM3052
ADMINISTRATION OF CRIMINAL JUSTICE ORGANIZATIONS
Credits (Min/Max): 3/3

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.

CRIM3054
LAW ENFORCEMENT COMMUNICATIONS
Credits (Min/Max): 3/3

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: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

CRIM3060
TREATMENT OF OFFENDERS
Credits (Min/Max): 3/3

This course will examine the methods of treatment of offenders that are practiced or available for use in both institutional and community settings. A variety of approaches intended to modify behavior, values and/or attitude will be compared. Rehabilitation, retribution and incapacitation as alternatives are discussed and evaluated.

CRIM3061
COURTS:STRUCT & PROCESS
Credits (Min/Max): 3/3

This course will cover the history of adjudication and the roots of local, state and the federal court system; the role of law enforcement officers and others with interests in the court system. Court administration and the activities of the courts and judges are reviewed. Federal/state jurisdiction issues will be covered. The procedures of courts in the administration of criminal justice will be examined in view of the precepts of fairness in the courts.

CRIM3063
CRIMINAL BEHAVIOR: LAW & PSYCHOLOGY (PSYC3063)
Credits (Min/Max): 3/3

This course, through an integration of psychology, criminology, political science and law, examines the role of the outlaw in both our community and global society. Elements of the course include psychological explanations of individual personality development, choice, both rational and thrill-motivated theories of criminality, examination of the role that powerful outlaws have played in our communities, and the rise of deviant individuals who have gained enormous power by capitalizing on the forces of globalization. The course also intertwines the legal means that society has employed to restrict the power of the outlaw in our society and the capacity of individuals to overcome attempts at domination. *Cross-listed with PSYC3063*

CRIM4012
EMERGENCY PREPAREDNESS & CRISIS MANAGEMENT
Credits (Min/Max): 3/3

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.

CRIM4030
COMPUTER FORENSICS INVESTIGATIONS
Credits (Min/Max): 3/3

This course provides a comprehensive examination of the application of computer security techniques to the physical evidence of a crime. Crime scene processing procedures will be utilized in the analysis of physical digital evidence. The course will also include training in report writing and courtroom testimony, to include a moot court exercise.

PreRequisites: CRIM2005 - CONSTITUTIONAL LAW (POLI2005)

CRIM4051
CRIMINAL JUSTICE INTERNSHIP
Credits (Min/Max): 1/6

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.

CRIM4055
SENIOR CAPSTONE EXPERIENCE
Credits (Min/Max): 3/3

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: PSYC3011 - RESEARCH METHODS IN PSYCHOLOGY

CRIM4057
CRIMINAL JUSTICE-INDEPENDENT STUDY
Credits (Min/Max): 1/3

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.

CSCI1002
INTRO TO COMPUTER SCIENCE (SLSC1012)
Credits (Min/Max): 3/3

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 SLSC1012*

CSCI1009
INTRO TO COMPUTER SCIENCE
Credits (Min/Max): 3/3

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.

CSCI1010
PROGRAMMING I
Credits (Min/Max): 3/3

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: CSCI1002 - INTRO TO COMPUTER SCIENCE (SLSC1012)

CSCI1010L
PROGRAMMING I-LAB
Credits (Min/Max): 1/1

Lab work for CSCI1010 Programming I.

CSCI1015
VISUAL BASIC PROGRAMMING
Credits (Min/Max): 3/3

This course introduces computer programming in general, and the Visual Basic programming language in particular. Topics covered include data types and operators, control flow, repetition and loop statements, arrays, and structures. The intent is to familiarize the student with the MS Windows Programming environment using Visual Studio and graphical user interfaces using frames, windows, dialog boxes, and common controls. Good programming practices will be taught and encouraged.

CSCI2010
PROGRAMMING II
Credits (Min/Max): 3/3

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.

CSCI2010L
PROGRAMMING II-LAB
Credits (Min/Max): 1/1

Lab work for CSCI2010 Programming II

CSCI2015
DISCRETE STRUCTURES I(MATH2050)
Credits (Min/Max): 3/3

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 MATH2050I*

PreRequisites: MATH2030 - ANALYTIC GEOMETRY & CALC III

CSCI2016
DISCRETE STRUCTURES II
Credits (Min/Max): 3/3

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 MATH2051*

CSCI2020
ALGORITHM ANALYSIS
Credits (Min/Max): 3/3

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: CSCI2010 - PROGRAMMING II

CSCI2025
SYSTEMS PROGRAMMING
Credits (Min/Max): 3/3

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: CSCI2010 - PROGRAMMING II

CSCI2025L
SYSTEMS PROGRAMMING LAB
Credits (Min/Max): 1/1

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.

CSCI2030
ANALOG ELECTRONICS
Credits (Min/Max): 3/3

This is an introductory course of electronics. Students will learn the fundamental principles of electronics 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 an understanding of computers and data communication devices.

CSCI2035
COMPUTER ORGANIZATION & DESIGN
Credits (Min/Max): 3/3

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.

CSCI2055
DATABASE-SYSTEMS THEORY
Credits (Min/Max): 3/3

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.

CSCI3032
ELECTRONIC COMMUNICATION
Credits (Min/Max): 3/3

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 (applications of electrons) to photonics (applications of light and photons) is also presented. Hands-on laboratory projects will be conducted in connection with the basic hardware of telecommunication not covered in CSCI2030 and CSCI3030.

CSCI3040
OPERATING SYSTEMS
Credits (Min/Max): 3/3

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: CSCI2035 - COMPUTER ORGANIZATION & DESIGN

CSCI3042
COMPUTER SECURITY
Credits (Min/Max): 3/3

This course covers fundamental issues and first principles of security and information assurance. The course will look at the security policies, models and mechanisms related to confidentiality, integrity, authentication, identification, and availability issues related to information and information systems. Other topics covered include basics of cryptography (e.g., digital signatures) and network security (e.g., intrusion detection and prevention), risk management, security assurance and secure design principles, as well as e-commerce security. Issues such as organizational security policy, legal and ethical issues in security, standards and methodologies for security evaluation and certification will also be covered.

CSCI3060
INTRO TO WINDOWS PROGRAMMING: VISUAL BASIC
Credits (Min/Max): 3/3

This course focuses on introduction to advanced programming for the Microsoft Windows Operating System. The intent is to familiarize the student with: MS Windows programming environment, common controls, dialog boxes and screens, Document/View architecture, file access, ADO/ODBC database programming, ActiveX controls and device driver programming.

CSCI4010
COMPILER DESIGN
Credits (Min/Max): 3/3

Compiler Design is an area of computer science where students learn formal language definitions and grammars. They will ultimately learn how to translate one language into another. This subject has many applications besides just the creation of language compilers!

CSCI4020
INTRO TO SOFTWARE ENGINEERING
Credits (Min/Max): 3/3

This course is an introduction to field of software engineering. It will combine a range of topics integral to the design, implementation, and testing of a medium-scale software system with the practical experience of implementing such a project as a member of a programmer team.

CSCI4045
TELECOMMUNICATIONS I
Credits (Min/Max): 3/3

This is the first of a two-semester introduction to telecommunications, one of the most important and rapidly growing fields of current technology. The topics covered in this first part include an overview of telecommunications, digital transmission fundamentals, and introduction to networks, physical layer protocols and medium access control.

CSCI4046
TELECOMMUNICATIONS II
Credits (Min/Max): 3/3

This is the second of a two-semester introduction to telecommunications, one of the most important and rapidly growing fields of current technology. The major topics to be covered in this second part are: coding theory and cryptography; routing in packet-switching networks and shortest-path algorithms; data compression and information theory.

CSCI4050
NUMERICAL COMPUTING I
Credits (Min/Max): 3/3

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 non-linear equations, solving sets of simultaneous equations, interpolating polynomials, numerical integration and numerical differentiation.

CSCI4051
NUMERICAL COMPUTING II
Credits (Min/Max): 3/3

Second semester of a survey course in numerical techniques for the numerical solution of a variety of mathematical problems with an emphasis on application as opposed to theory. Topics to be covered include: initial-value problems, partial differential equations, curve fitting and approximation of functions.

CSCI4055
ADVANCED DATABASE THEORY
Credits (Min/Max): 3/3

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.

Prerequisites: CSCI2055 - DATABASE-SYSTEMS THEORY

CSCI4070
INTRO TO ARTIFICIAL INTELLIGENCE
Credits (Min/Max): 3/3

This course will provide an introduction to the fundamental concepts and techniques underlying the construction of intelligent computer systems. Topics covered in the course include: problem solving and search; logic and knowledge representation; planning; uncertain knowledge and reasoning; and machine learning. Formal approaches will support implementation, both through available tools and student-written functions.

CSCI4090
COMPUTER SCIENCE SEMINAR
Credits (Min/Max): 1/1

In development.

CSCI4098
CS CAPSTONE EXPERIENCE I
Credits (Min/Max): 3/3

Software engineering is the discipline concerned with the application of theory, knowledge, and practice for effectively and efficiently building software systems that satisfy the requirements of users and customers. This is the first semester of a year long experience designed to present software engineering theory in context with a medium-size software project for an actual customer.

EDEL2000
ORIENTATION TO PreK-4 EDUCATION
Credits (Min/Max): 3/3

This course will focus on the historical development of PreK-4 education and explore the different learning environments that are optimal for student learning of all ability ranges and from different cultures. The student will gain insights into the philosophy and objectives of the PreK-4 curriculum and be introduced to various instructional strategies that can be used in teaching the various subject areas. It will examine and analyze the various curriculum components of the different educational designs for educating students from when students are teachable through grade four. This class should be taken in conjunction with Observation I so that students can relate theory to practice in the classroom.

EDEL2010
OBSERVATION I (PreK)
Credits (Min/Max): 2/2

This class will provide the student with the opportunity to work with a teacher in a pre-school setting/classroom. This field work will coincide with the classes of Child Development, Educational Psychology, and Orientation to PreK-4 Education. This will allow the student to connect the theory gained in these classes to practice in the early childhood classroom according to PA learning standards. Field Experience: 36 total hours (6 hours Stage 2 and 30 hours Stage 3 field experience).

EDEL2020
OBSERVATION II (K-4)
Credits (Min/Max): 2/2

This course will provide the student with the opportunity to work with a teacher in a kindergarten to fourth grade classroom. This field work will allow the student to connect the theory gained in Child Development, Educational Psychology, and Orientation to PreK-4 Education classes to practice in the classroom according to PA learning standards. Seminars will be an integral part of the class to discuss what the student is observing, provide additional support, and theory to the student. Field Experience: 36 total hours (6 hours Stage 2 and 30 hours Stage 3 field experience).

PreRequisites: EDEL2000 - ORIENTATION TO PreK-4 EDUCATION

EDEL2030
METHODS OF TEACHING HEALTH & PHYSICAL
Credits (Min/Max): 2/2

The course will focus on the importance of proper health and physical activities, according to the Pennsylvania early learning standards, for PreK-4th grade students of all ability ranges and from different cultures in an inclusive classroom. Students will be provided with introductory experiences in physical education, health, and assessment of student performance. Students will design and practice teaching methods for physical education/health activities for the PreK-4 grades. An integral part of this course will be a field experience in a variety of classrooms across the PreK-4 grade span to observe teachers presenting physical education/health lessons. Field Experience: 4 hours of Stage 1 Field Experience

EDEL3015
CREATIVE THINKING: METHODS OF INTEGRATING ART
Credits (Min/Max): 2/2

This class will present strategies and teaching techniques for integrating art and music across the curriculum, aligned with the Pennsylvania early learning standards, for students in the PreK-4 grades of all ability ranges and from different cultures in an inclusive classroom. Students will be provided with introductory experiences in art and music and assessment of student performance. Students will design and practice teaching methods to incorporate art and music into content areas across the PreK-4 curriculum. An integral part of this course will be a field experience in a variety of classrooms across the PreK-4 grade span to observe teachers who incorporate art and music into their lessons. Field Experience: 4 hours of Stage 1 Field Experience

EDEL3025
METHODS OF TEACHING WRITING PREK-4
Credits (Min/Max): 2/2

This course will provide opportunities for you to learn how to teach PreK-4 students to learn to write for a variety of purposes, based on the Pennsylvania academic standards and assessment anchors. You will learn how to use backwards-design to create lessons that focus on student growth areas, and how to assess writing samples to inform further instruction. In this process you will also learn how to improve your own writing so that you can serve as a model for your students. You will be expected to demonstrate model handwriting for printing and cursive.

EDEL3035
METHODS OF TEACHING READING PREK-4
Credits (Min/Max): 3/3

This course provides the foundation for teaching reading according to PA academic standards and assessment anchors for PreK through grade 4, for students with a broad range of abilities and diverse cultural backgrounds. The focus is on research-based instruction around the Five Big Ideas of Reading: fluency, comprehension, vocabulary, phonemic awareness and the alphabetic principle. Strategies for dealing with struggling readers will be emphasized, and you will learn to differentiate your reading instruction for students reading above-, on-, and below-level. This will be exciting, intense, hands-on work that will teach you to understand reading in a whole new way.

EDEL3045
TEACHING READING & LANGUAGE ARTS
Credits (Min/Max): 2/2

This course provides a weekly supervised practicum and seminar. This offers a supportive, scaffolded, first step into teaching. Students will be teaching reading and language arts in a PreK-4th grade level classroom. Instructional topics will be assigned by classroom mentor teachers. Topics will address the grade-level standards for reading, writing, speaking and listening. Practicum students will use assessment information to design lessons, and differentiate instruction to meet student needs. Throughout the practicum, students will be able to demonstrate effective reading and language arts instruction, and promote skill development in early elementary students. The primary objective of this course is for students to practice planning and implementing standards-based reading and language arts instruction that is very interactive, and differentiated for student strengths and needs. Field Experience: 15 hours of Stage 3 Field Experience

EDEL3055
METHODS OF TEACHING SOCIAL STUDIES PREK-4
Credits (Min/Max): 3/3

This class will provide the pre-service PreK-4 teacher with strategies and techniques for teaching social studies in a heterogeneous inclusive classroom according to PA early learning standards and the National Council for the Social Studies thematic strands, which include the disciplines of geography, history, economics, and civics and government. 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 a field placement experience in a PreK-4 classroom of 10 class periods. This field placement will allow the student to connect theory to practice and provide an experience of working with children. Field Experience: 10 hours of Stage 3 field experience (teaching Junior Achievement)

EDEL4035
METHODS OF TEACHING SCIENCE PREK-4
Credits (Min/Max): 3/3

This class will provide the pre-service PreK-4 teacher with strategies and techniques for teaching science in a heterogeneous inclusive classroom according to PA learning standards and the National Science Teachers Association utilizing a 'hands-on' approach. Emphasis will be on organizing subject matter including environment and ecology, life sciences, physical sciences, and earth and space science, and translating it to children through the students' participation in various methods of learning. The student will present a demonstration lesson utilizing the inquiry lesson plan format to his/her peers. An integral part of this course will be a field experience in a PreK-4 classroom of ten class periods. This field placement will allow the student to connect theory to practice and provide an experience of working with children. Field Experience: 10 hours of Stage 3 field experience

EDEL4040
METHODS OF TEACHING MATH PREK-4
Credits (Min/Max): 3/3

This course provides the theoretical base of principles for teaching math according to PA learning standards and the National Council of Teachers of Mathematics to students from infancy through grade 4, inclusive of special needs and gifted children. It will enable the student to learn mathematical concepts, skills, and problem solving methods through the use of manipulatives and be able to demonstrate this knowledge through demonstration lessons to his/her peers. Through the experiences provided, the student will gain knowledge in the various strategies for the use of these manipulatives, the selection of effective materials and techniques, and diagnostic procedures.

EDEL4045
TEACHING MATH PRACTICUM PREK-4
Credits (Min/Max): 2/2

This course provides a weekly supervised practicum and seminar based on the Methods of Teaching Math course. The student will be assigned a class or a small group of students where he/she will diagnose the students' needs and then create and implement lessons weekly according to PA learning standards that focus on the diagnosis found. The student will be able to demonstrate and promote effective strategies for teaching children of all ability ranges in his/her lessons plans and teaching. The student will spend one period a week in a classroom teaching and this will be accompanied with a seminar focusing on the plans and teaching that is implemented weekly. Field Experience: 15 hours of Stage 3 Field Experience

EDEL4060
INTEGRATING CURRICULUM & INSTRUCTION
Credits (Min/Max): 3/3

In the final stages of preparing participants to enter the teaching profession, this class acts as the capstone of the program prior to student teaching. This course will offer the participants opportunities to connect the various methods courses and strategies learned. Participants will learn and practice ways to integrate different subject areas into a cohesive unit using projects, and to provide cognitively engaging instruction for students of many ability levels and learning styles in an inclusive setting. As always, instruction will be planned according to PA learning standards. The course will also address the duties of the teaching profession that extend beyond daily instruction, which includes providing opportunities to learn and practice strategies for working with families and keeping them engaged in their children's education. Participants will invest significant professional development hours in preparing the assignments of this course, including some materials useful during student teaching.

EDEL4064
STUDENT TEACHING & SEMINAR (PRE-K-1)
Credits (Min/Max): 6/6

This course provides teacher candidates with the opportunity to incorporate the various strategies and techniques learned from the methods courses to implement effective instruction for all learners at the PreK-1st grade level. Under the direct supervision of a cooperating teacher and a college supervisor, the student teacher will have the opportunity to teach in all the subject areas and demonstrate the instructional practices and methods related to the developmental level of their students, based on a standards aligned system. The student teacher will return to the college for additional support on topics such as creating a positive learning environment, encouraging parent involvement, and using community resources as part of the student teaching seminars.

EDEL4065
STUDENT TEACHING & SEMINAR (2-4)
Credits (Min/Max): 6/6

This course provides the teacher candidate with the opportunity to incorporate the various strategies and techniques learned from the methods courses to implement effective instruction for all learners at the 2nd-4th grade level. Under the direct supervision of a cooperating teacher and a college supervisor, the student teacher will have the opportunity to present lessons based on PA academic standards and assessment anchors in a variety of subject areas and will assume the full teaching load by the end of the five week placement. The student teacher will return to the college for additional support on topics such as differentiated instruction as part of the student teaching seminars.

EDML2010
ML TEACHING SCIENCE METHODS-LAB
Credits (Min/Max): 1/1

This course is required for all middle level education majors. The course will focus on how to use an inquiry approach to teach science in the 4th-6th grade levels, with an emphasis on how to address the Pennsylvania Academic Standards and Assessment Anchors for Science & Technology and Environment & Ecology. A field experience is a required component of this course.

EDML2023
ML TEACHING MATHEMATICS METHODS -LAB
Credits (Min/Max): 1/1

This course is required for all middle level education majors. The course will focus on how to use a learner based approach to teach math in the 4th-6th grade levels, with an emphasis on how to address the Pennsylvania Academic Standards and Assessment Anchors for Mathematics. A field experience is a required component of this course.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

EDML3010
DEVELOPING READING COMMUNITIES
Credits (Min/Max): 3/3

This course engages students in a study of the relationship between literacy and community by examining a range of "reading communities," including historical, school-based, professional, neighborhood, workplace, and recreational communities. Key issues will include: how communities use literacy and literacy practices, how literacy practices define and shape communities, how literacy practices draw and transcend boundaries between communities, and how new literacies transform older communities and create new kinds of communities.

EDML3013
MIDDLE LEVEL TEACHING SOCIAL STUDIES METHODS LAB
Credits (Min/Max): 1/1

This course is required for all middle level education majors. The course will focus on how to present social studies concepts in a hands-on manner to 4th-6th grade students, with an emphasis on how to address the Pennsylvania Academic Standards for Geography, History, Economics, and Civics & Government. A field experience is a required component of this course.

EDML3050
READING & WRITING ACROSS THE DISCIPLINES
Credits (Min/Max): 3/3

Reading and Writing Across the Disciplines introduces a wide variety of effective instructional methods for middle level and secondary teachers to present reading and writing skills in any content area.

EDML4010
ADVANCED TEACHING METHODS FOR MIDDLE LEVEL TEACHING CERTIFICATION
Credits (Min/Max): 2/2

This course is required for all middle level education majors, in order to prepare for student teaching. Future middle level teachers will explore ways to engage students in the learning process, with a focus in the content areas at the 7th and 8th grade level. Future teachers will plan lessons and units based on content standards and assessment anchors. The use of technology will also be explored as a way to enhance instruction and assessment. A field experience is a required component of this course.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

EDML4050
ML STUDENT TEACHING (GRADES 4-6)
Credits (Min/Max): 6/6

During this portion of student teaching, middle level education majors will be placed in a 4th-6th grade setting, and may be expected to teach any subject area (science, mathematics, language arts, or social studies) for approximately seven weeks. Student teachers will be expected to demonstrate instructional strategies that capitalize on the developmental characteristics of young adolescents and to design successful interventions responsive to the needs of individual middle level students. Student teachers will be supervised by a cooperating teacher and a college supervisor, and will be expected to participate in collaborative team building opportunities. Part of the student teaching experience will also include an on campus student teaching seminar, where topics such as certification requirements, school law, and interviewing strategies will be presented.

EDML4055
ML STUDENT TEACHING (GRADES 7-8)
Credits (Min/Max): 6/6

During this portion of student teaching, middle level education majors will be placed in a 7th-8th grade setting within their content specialty (science, mathematics, language arts, or social studies) for approximately seven weeks. Student teachers will be expected to demonstrate their deep content knowledge as they apply instructional strategies that capitalize on the developmental characteristics of young adolescents and to design successful interventions responsive to the needs of individual middle level students. Student teachers will be supervised by a cooperating teacher and a college supervisor, and will be expected to participate in collaborative team building opportunities. Part of the student teaching experience will also include an on campus student teaching seminar, where topics such as certification requirements, school law, and interviewing strategies will be presented.

EDSP2010
ASSESSMENT/DIAGNOSIS OF SPECIAL NEEDS STUDENTS
Credits (Min/Max): 3/3

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.

PreRequisites: EDUC2010 - FOUNDATIONS OF EDUCATION & FIELD EXPERIENCE

EDSP2015
INTRO TO HIGH INCIDENCE DISABILITIES, ACCOMODATIONS, & ADAPTATIONS
Credits (Min/Max): 3/3

This course provides students an opportunity to explore foundations of special education in the United States including: characteristics of each disability category, legislation, over-representation of diverse students, academic and functional needs of students with disabilities, individual learning differences, least restrictive environment, implications for a Standards Aligned System, collaboration and transition. Students will develop and understanding of Accommodations and Adaptations for inclusive environments.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

EDSP2020
PROGRAM/CLASSROOM MANAGEMENT
Credits (Min/Max): 3/3

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.

PreRequisites: EDSP2010 - ASSESSMENT/DIAGNOSIS OF SPECIAL NEEDS STUDENTS

EDSP2025
LEARNING ENVIRONMENTS, CLASSROOM & BEHAVIOR

Credits (Min/Max): 3/3

This course will introduce students to behavior and misbehaviors of students in the school setting, types of misbehavior roles, establish a classroom management plan that will reflect their consideration of students with disabilities, problem solving, conflict resolution, assessing appropriate and problematic behaviors while establishing opportunities for students with diverse backgrounds to interact and share in cooperative learning groups, problem solving to achieve common goals. "Application Models" will be the framework used to demonstrate the approaches used by pioneers as well as 21st century researchers and educators.

**EDSP3010
METHODS AND PRACTICUM
Credits (Min/Max): 3/3**

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.

PreRequisites: EDSP2010 - ASSESSMENT/DIAGNOSIS OF SPECIAL NEEDS STUDENTS

**EDSP3015
INTRO TO LOW INCIDENCE DISABILITIES
Credits (Min/Max): 3/3**

This course is designed to prepare students with the skills necessary to effectively teach individuals with severe disabilities, identify the relationships of organizations to school systems, laws and policies that are related to the implementation of specialized health care in the educational setting, and demonstrate the knowledge and understanding of individuals so as to develop effective instructional plans that will contribute to effective programs.

**EDSP3020
INTER-INTRA GROUP COMMUNICATION
Credits (Min/Max): 3/3**

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.

**EDSP3025
EFFECTIVE INSTRUCTIONAL STRATEGIES FOR STUDENTS
Credits (Min/Max): 3/3**

The Instructional Strategies Course identifies and implements instructional strategies for all individuals with disabilities by evidenced-based methods, specialized resources, multiple instructional approaches, appropriate adaptations and technology, integrating student initiated learning opportunities and experiences into ongoing instruction. Teach learning strategies and modify the pace of instruction within and across curricula, demonstrate efficient differentiated instruction, efficient planning, coordination, and delivery for effective instruction required for inclusive settings.

**EDSP3030
MENTORING-PRACTICUM
Credits (Min/Max): 3/3**

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.

PreRequisites: EDSP2010 - ASSESSMENT/DIAGNOSIS OF SPECIAL NEEDS STUDENTS

**EDSP3035
SPECIALIZED INSTRUCTIONAL PLANNING
Credits (Min/Max): 3/3**

The focus of this field experience course is to prepare the perspective student teacher with an authentic encounter of teaching special education prior to their actual placement. The student will participate in a special education classroom for eight (8) - five (5) hour sessions, create a weekly journal, develop meaningful lessons plans, prepare an observational case study, create a summative portfolio, and be responsible for the various forms. The major emphasis of the class will concentrate on providing the student with a realistic experiential comprehension of special education in the school age setting.

**EDSP3040
EVALUATION & AUTHENTIC ASSESSMENT WITHIN A STANDARD
Credits (Min/Max): 3/3**

This required course for all education majors will explore the instructional purposes for a variety of assessment strategies, such as: authentic, screening, diagnostic, formative, benchmark, and summative assessments. Future teachers will learn how to interpret assessment data, such as standardized test scores and norms, and will practice how to communicate assessment results to educational stakeholders, while considering legal and ethical issues related to assessment data, such as maintaining confidentiality. Future teachers will also create sample assessments that target academic standards and assessment anchors within subject areas, in order to measure mastery of the curriculum in more than one way.

**EDSP4010
ADVANCED SEMINAR
Credits (Min/Max): 3/3**

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: EDSP2020 - PROGRAM/CLASSROOM MANAGEMENT

EDSP4015
DEVELOPMENT OF THE IEP & INCLUSION IN LEAST 3
Credits (Min/Max): 3/3

The focus of this culminating course is to prepare the student teacher with a realistic overview of teaching special education in Pennsylvania. The student will create an IEP, become familiar with Inclusion and collaboration, write reflections based on current issues/trends in special education, participate in discussions, create useful artifacts, discuss significant court cases, and understand Transition. The student will also comprehend the special education continuum of services available to the identified student.

EDSP4051
STUDENT TEACHING-SPECIAL EDUC EDUCATION
Credits (Min/Max): 6/6

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.

PreRequisites: EDSP4010 - ADVANCED SEMINAR

EDSP4051B
SPECIAL EDUCATION PROJECT
Credits (Min/Max): 3/3

This course is offered to students who have already completed their degree in education and are teaching. The Project course is part of the Special education requirement for students who are returning for their certificate. Requirements: Must have a degree in Education. Must have taught in the field of education. Must research a specific topic in the field of Special Education. Must present the research project to the supervisor. Must be completed in the term scheduled by registration.

EDSP4065
SPECIAL ED STUDENT TEACHING & SEMINAR
Credits (Min/Max): 6/6

The EDSP 451 Student Teaching Course is designed to allow students an opportunity to apply skills learned in professional practice, human development, learning environments, instructional strategies, instructional planning, diversity, adaptations and accommodations, collaboration, behavior management, assessment and transition in a supervised field based experience. Under the supervision of a school district cooperating teacher(s) and the La Roche faculty, the student will design, implement and evaluate teaching experiences in many settings. Students will prepare and present lessons that appropriately address the IEP goals and meet the State Standards. Student teachers will demonstrate skills that include, but are not be limited to, differentiated instruction, universal design, collaborative teaching, transition planning and research based data driven instruction to meet the needs of all students.

EDUC1010
INTRO TO EDUCATION & FIELD
Credits (Min/Max): 3/3

The purpose of this course is to serve as an introduction to the teaching profession. Students will explore the qualifications for becoming an effective teacher, and will observe classroom teachers across grade levels. Current trends and conditions of education will also be studied. A field experience is a required component of the course.

EDUC2010
FOUNDATIONS OF EDUCATION & FIELD EXPERIENCE
Credits (Min/Max): 4/4

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.

EDUC2051
EARLY FIELD EXPERIENCE
Credits (Min/Max): 1/1

A sophomore year experience to enable future teachers to observe all the aspects of teaching. They will work closely with cooperating teachers in local schools. *For transfer students only.*

EDUC4054
PRIMARY STUDENT TEACHING
Credits (Min/Max): 6/6

This course provides the student with the opportunity to incorporate the various strategies and techniques gleaned from the methods courses into a primary elementary classroom, or an early childhood setting under the direct supervision of a cooperating teacher and the college supervisor. The student will have the opportunity to teach all subject areas and assume the full teaching load for part of this experience. *No course work may be taken during the student teaching semester unless approved by the Director, Center for Teacher Education.*

EDUC4055
INTERMEDIATE STUDENT TEACHING
Credits (Min/Max): 6/6

This course provides the student with the opportunity to incorporate the various strategies and techniques gleaned from the methods courses into an elementary classroom, or an early childhood setting under the direct supervision of a cooperating teacher and the college supervisor. The student will

have the opportunity to teach all subject areas and assume the full teaching load for part of this experience. The student will have two eight-week placements during this experience - both a primary and an intermediate replacement will be assigned for the elementary student. Pre-school and elementary experiences will be required of the early childhood student. **No course work may be taken during the student teaching semester unless approved by the Director, Center for Teacher Education.**

EDUC4057
EDUCATION-INDEPENDENT STUDY
Credits (Min/Max): 1/12

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

ELED3021
METHODS OF TEACHING ART & MUSIC (EC321)
Credits (Min/Max): 3/3

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

ELED3021A
METHODS OF TEACHING ART
Credits (Min/Max): 1.5/1.5

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.

ELED3022A
METHODS OF TEACHING MUSIC
Credits (Min/Max): 1.5/1.5

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

ELED3040
TEACHING READING & LANGUAGE ARTS
Credits (Min/Max): 3/3

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.

PreRequisites: EDUC2010 - FOUNDATIONS OF EDUCATION & FIELD EXPERIENCE

ELED3041
TEACHING READING & LANGUAGE ARTS PRACTICUM
Credits (Min/Max): 2/2

This course provides a weekly-supervised field placement practicum and seminar based on the Teaching Reading and Language Arts 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.

PreRequisites: ELED3040 - TEACHING READING & LANGUAGE ARTS

ELED4020
METHODS OF TEACHING SCIENCE & HEALTH
Credits (Min/Max): 3/3

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.

PreRequisites: EDUC2010 - FOUNDATIONS OF EDUCATION & FIELD EXPERIENCE

ELED4030
METHODS OF TEACHING SOCIAL STUDIES
Credits (Min/Max): 3/3

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.e.

ELED4040
METHODS OF TEACHING MATH
Credits (Min/Max): 3/3

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.

ELED4040B
TEACHING MATH PRACTICUM
Credits (Min/Max): 2/2

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.

PreRequisites: ELED4040 - METHODS OF TEACHING MATH

ELED4050
ELEMENTARY CURRICULUM
Credits (Min/Max): 3/3

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.

ELED4052
INTEGRATING TECHNOLOGY IN THE ELEMENTARY CURRICULUM
Credits (Min/Max): 3/3

In the final stages of preparing students to enter the teaching profession, this course offers the student the opportunity to gain insights into the philosophy and objectives of the elementary school, as well as study classroom organization, materials, and instructional strategies that can be used in teaching the various subject areas of the elementary school. This course will also explore and offer the students techniques to effectively manage student behavior and solve discipline problems. This course will enable students to discern appropriate forms of technology that meet with unit and lesson objectives and curriculum standards, and thus enhance one's procedural materials. Students will have opportunities to gain a comprehensive repertoire of technological resources to later implement and utilize in planning lessons across the curriculum and creating student resources, in the form of text, visual, and web-based materials.

PreRequisites: EDUC2010 - FOUNDATIONS OF EDUCATION & FIELD EXPERIENCE

ELED4054
PRIMARY STUDENT TEACHING
Credits (Min/Max): 6/6

This course provides the student with the opportunity to incorporate the various strategies and techniques gleaned from the methods courses into a primary elementary classroom, or an early childhood setting under the direct supervision of a cooperating teacher and the college supervisor. The student will have the opportunity to teach all subject areas and assume the full teaching load for part of this experience. **No course work may be taken during the student teaching semester unless approved by the Director, Center for Teacher Education.**

ELED4055
INTERMEDIATE STUDENT TEACHING
Credits (Min/Max): 6/6

This course provides the student with the opportunity to incorporate the various strategies and techniques gleaned from the methods courses into an elementary classroom, or an early childhood setting under the direct supervision of a cooperating teacher and the college supervisor. The student will have the opportunity to teach all subject areas and assume the full teaching load for part of this experience. The student will have two eight-week placements during this experience - both a primary and an intermediate replacement will be assigned for the elementary student. Pre-school and elementary experiences will be required of the early childhood student. **No course work may be taken during the student teaching semester unless approved by the Director, Center for Teacher Education.**

ENED3010
METHODS OF TEACHING & EVALUATING ENGLISH
Credits (Min/Max): 3/3

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.

ENED3013
CHILDREN'S LITERATURE
Credits (Min/Max): 3/3

This course is designed to give the student a broad background in literature for children from pre-school through 7th 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.

ENED3014
READING & WRITING ACROSS THE DISCIPLINES(SCED3014)
Credits (Min/Max): 3/3

Introduces a wide variety of methods for secondary teachers to present reading and writing skills in any curriculum area. Specific content areas will be presented within the curriculum of other disciplines. How to use Writing to Learn will be an important aspect of this course. *Cross listed with SCED3014*

ENED3030
LITERATURE OF ADOLESCENTS & YOUNG ADULTS
Credits (Min/Max): 3/3

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.

ENED3051
ADVANCED FIELD EXPERIENCE
Credits (Min/Max): 3/3

In this course, you will learn and apply the definition, components, principles, and strategies of effective classroom management. In addition, you will explore the topics that contribute to developing a positive learning environment for students. These topics include: diversity, motivation theories and strategies, brain-based learning, planning physical spaces, instructional strategies, and assessment. A data and reflection driven 25 hour field experience will be completed in local district classrooms. The final project includes the development of a portfolio reflecting the range of campus and field-based experiences. A rubric will guide you through this process. *Cross-listed with SCED3051*

ENGL1010
PRACTICUM:COLLEGE READING & WRITING
Credits (Min/Max): 6/6

This course is designed to prepare college freshmen for reading and writing at the college level.

ENGL1011
COLLEGE WRITING I
Credits (Min/Max): 3/3

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.

ENGL1011H
COLLEGE WRITING I-HONORS
Credits (Min/Max): 3/3

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. As this is an Honors course, the schedule of reading and writing assignments is more challenging than the standard composition course in terms of both pace and content. In keeping with the Honors curriculum guidelines, this course also integrates one or more elements of the La Roche College mission (Global, Intercultural, or Social Justice focus) into its core reading and writing objectives.

ENGL1011L
COLLEGE WRITING-LABORATORY
Credits (Min/Max): 0/0

This mandatory course supports College Writing I, emphasizing on-demand timed writing, revision, and control of error.

ENGL1012
COLLEGE WRITING II
Credits (Min/Max): 3/3

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

PreRequisites: ENGL1011 - COLLEGE WRITING I

ENGL1012H
COLLEGE WRITING II-HONORS
Credits (Min/Max): 3/3

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. As this is an Honors course, the schedule of reading and writing assignments is more challenging than the standard composition course in terms of both pace and content. In keeping with the Honors curriculum guidelines, this course also integrates one or more elements of the La Roche College mission (Global, Intercultural, or Social Justice focus) into its core reading and writing objectives.

ENGL1050
METHODS OF TEACHING WRITING: COMPOSITION
Credits (Min/Max): 1/1

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.

ENGL2010
INTRO TO LITERARY STUDY
Credits (Min/Max): 3/3

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.

ENGL2012
AMERICAN ETHNIC LITERATURE
Credits (Min/Max): 3/3

A study of writing about American ethnicity. Readings usually include essays, poems, plays and prose fiction.

ENGL2021
WORLD LITERATURE I(SLLT1002)
Credits (Min/Max): 3/3

A study of selected works in a variety of genres centered primarily around major literary movements from antiquity through the Renaissance.*Cross-listed with SLLT1002*

ENGL2022
WORLD LITERATURE II(SLLT1010)
Credits (Min/Max): 3/3

A study of selected works in a variety of genres centered primarily around major literary movements from the Renaissance through contemporary literature.*Cross-listed with SLLT1010*

PreRequisites: ENGL1011 - COLLEGE WRITING I

ENGL2029
BUSINESS COMMUNICATIONS
Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

ENGL2030
TECHNICAL WRITING
Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

ENGL2036
ISSUES IN AMERICAN LIT I (SLLT1013)
Credits (Min/Max): 3/3

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.*SLLT1013*

ENGL2039
ISSUES IN AMERICAN LIT II (SLLT1011)
Credits (Min/Max): 3/3

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 SLLT1011*

PreRequisites: ENGL1012 - COLLEGE WRITING II

ENGL2040
CREATIVE WRITING I
Credits (Min/Max): 3/3

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

ENGL2043
FILM ANALYSIS:FORM,HIST,IDEOLOGY
Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

ENGL2045
NATIVE AMERICAN LITERATURE
Credits (Min/Max): 3/3

In this class, we will read selected works of Native American literature (Including political writing, oral literature, autobiography, and contemporary fiction), as well as selected critical works that raise questions about the primary texts: questions of form, definition, and so on. The course is not a

survey; though we'll be reading a good number of texts, I've made no attempt to cover the "whole" range of Native American literatures. Not only is that impossible, but the very idea of wholeness is problematic in my eyes, particularly (as we will see) when discussing texts that fall under a heading so historically and theoretically troubled as that of "Native American literatures". What we will do in the class, instead, is employ particular texts as occasions for reflection, discussion, and debate. In this way, each student will have experienced enough of the range, complexity, and significance of Native American literatures to explore the field independently after the class comes to an end.

ENGL2050
WRITER'S CENTER; METHODS OF TEACHING WRITING
Credits (Min/Max): 1/1

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.

ENGL3011
READINGS IN CONTEMPORARY NON-FICTION
Credits (Min/Max): 3/3

This course will introduce you to the genre of creative contemporary American nonfiction, sometimes called literary journalism. This course will engage you in reading and responding to an array of creative nonfiction works, ranging from newspaper articles, to magazine pieces, to book-length works. This course will provide you with a broad understanding and practical exposure to the craft of contemporary American creative nonfiction. The course is intended as the first step in a two-step sequence that will provide students with the skills needed to produce their own creative nonfiction works, with publication of those works as their ultimate goal. The intent of this course is to support, complement and augment other established courses in the curriculum, primarily Journalism I and II, Advanced Exposition, Writing Creative Contemporary Nonfiction, and Creative Writing.

ENGL3012
SPECIAL TOPICS IN COMPOSITION
Credits (Min/Max): 3/3

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.

ENGL3013
CHILDREN'S LITERATURE
Credits (Min/Max): 3/3

This course is designed to give the student a broad background in literature for children from pre-school through 7th 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.

ENGL3014
WORLD MYTHOLOGY
Credits (Min/Max): 3/3

A study of myths and mythic patterns in literature from a variety of cultures. Because of the vast quantity of literature involving mythology, the course emphasizes certain themes or patterns, for example, the journey of the hero or heroine, patterns of transformation and mythic motifs.

ENGL3015
STUDIES IN LITERATURE(SLLT1015)
Credits (Min/Max): 3/3

If you are in need of a great summer class, the English Department will once again offer Theater in the City, a six-week select literature class that comprises seeing five plays in the city at different theaters on Thursdays with a discussion and preparation for each play on Tuesday evenings. This summer's offerings will be the Irish and Classical Theater's Antony and Cleopatra by William Shakespeare, Vernell Lillie's House that Carol Built (Kuntu Repertory Theater), Pittsburgh Playwrights' King Hedley II, one of the August Wilson Pittsburgh plays (August Wilson Theater/Pittsburgh Playwrights production), Pittsburgh Public Theater's God of Carnage by Yasmina Reza, and City Theater's Louder and Faster, by Simonson and Hatcher, a story honoring Pittsburgh playwright George S. Kaufman. 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. *Cross-listed with SLLT1015*

PreRequisites: ENGL1012 - COLLEGE WRITING II

ENGL3015B
CONTEMPORARY LITERATURE (SLLT1008)
Credits (Min/Max): 3/3

This course is designed to introduce non-majors to the principles of literary and cultural criticism through the study of a range of prose fiction from the last thirty years of the 20th Century. The focus of the course is to identify and interpret the thematic and stylistic interests of Western and non-Western contemporary fictions from the period, paying special attention to the various ways of understanding or seeing (cultural, political, and psychological) which different cultures bring to the production of literature. By examining, discussing, and writing about these works, students will gain specific insight into a rapidly globalizing literary aesthetic as well as an understanding of modern critical literary analysis. *Cross-listed with SLLT1008*

PreRequisites: ENGL1012 - COLLEGE WRITING II

ENGL3017
IRISH LITERATURE
Credits (Min/Max): 3/3

A study of Irish literature from Ancient Gaelic times, through the Irish Renaissance and up to contemporary times. Readings, in English, involve a variety of genres: myths, sagas, lyric poems, plays and short stories. Specific authors include Synge, Yeats, Lady Gregory, Joyce, O'Casey, and Kate O'Brien.

PreRequisites: ENGL1012 - COLLEGE WRITING II

ENGL3018
DRAMATIC LITERATURE
Credits (Min/Max): 3/3

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.

ENGL3019
MODERN AMERICAN DRAMA
Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

ENGL3020
MODERN AMERICAN NOVEL
Credits (Min/Max): 3/3

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.

ENGL3021
SHAKESPEARE ON FILM(SLLT1003)
Credits (Min/Max): 3/3

This course is designed to introduce non-majors to literary study through viewing film adaptations of Shakespeare and reading the printed texts. By examining the relationship between the texts of the play and their film interpretations, students will examine and analyze dramatic genres central to literary study, including tragedies, comedies, histories and romances. *Cross-listed with SLLT1003*

PreRequisites: ENGL1012 - COLLEGE WRITING II

ENGL3022
DEVELOPMENT OF ENGLISH NOVEL
Credits (Min/Max): 3/3

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.

ENGL3023
SHAKESPEARE
Credits (Min/Max): 3/3

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.

ENGL3024
LOVE&WAR OLD&MEDIEVAL ENG LIT
Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

ENGL3025
RENAISSANCE ENGLISH POETRY
Credits (Min/Max): 3/3

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

PreRequisites: ENGL1012 - COLLEGE WRITING II

ENGL3027
NINETEENTH CENTURY BRITISH POETRY
Credits (Min/Max): 3/3

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.

ENGL3028
EARLY 20th CENTURY BRITISH LIT
Credits (Min/Max): 3/3

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.

ENGL3029
LITERARY THEORY AND CRITICISM

Credits (Min/Max): 3/3

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

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3031
JOURNALISM I**

Credits (Min/Max): 3/3

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

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3032
JOURNALISM II**

Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

**ENGL3033
AMERICAN ENG:ITS HIST&DEVELOPMT**

Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

**ENGL3034
WRITING FOR ADVERTISING**

Credits (Min/Max): 3/3

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.

**ENGL3035
WRITING FOR TV & RADIO**

Credits (Min/Max): 3/3

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.

**ENGL3036
GRANTS WRITING**

Credits (Min/Max): 3/3

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.

**ENGL3037
ADVANCED EXPOSITION**

Credits (Min/Max): 3/3

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.

**ENGL3038
PUBLIC RELATIONS WRITING**

Credits (Min/Max): 3/3

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

**ENGL3039
U.S. LABOR HISTORY & LIT (HIST3039):SPECIAL TOPICS IN LITERATURE**

Credits (Min/Max): 3/3

This course investigates American Labor, from colonial day to the present, from both historical and literay perspective.*Cross-listed with HIST3039*

**ENGL3040
TEACHING LITERATURE I: METHODS OF TEACHING**

Credits (Min/Max): 1/1

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.

ENGL3041
TEACHING LITERATURE II: METHODS OF TEACHING ENGLISH
Credits (Min/Max): 1/1

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.

ENGL3042
WRITING FOR NON-PROFITS
Credits (Min/Max): 3/3

This course is designed to teach the basic principles of public relations and grant writing for non-profit organizations. It will combine theory and practice, discussing all the key public relations vehicles, including news releases, press kits, brochures, newsletters, annual reports, direct mail, advertising, the Internet, fund raising, and special events planning.

PreRequisites: ENGL1012 - COLLEGE WRITING II

ENGL3043
WRITING FOR ADVERTISING & MEDIA
Credits (Min/Max): 3/3

This course is designed to teach students the skills requisite to writing copy for both advertising and the broadcast media. As such, the course includes writing ad copy targeting various audiences and employing multiple venues (print, radio, TV, and internet) as well as writing copy for news and sports reports, features and documentaries, and interviews.

PreRequisites: ENGL1012 - COLLEGE WRITING II

ENGL3050
GENRE; METHODS OF TEACHING
Credits (Min/Max): 1/1

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.

ENGL3051
PUBLICATION DESIGN(GCDN3051)
Credits (Min/Max): 3/3

Intended for prospective designers as well as writers, the course will educate students in newspaper graphics and design. Hands-on experience will require participation in the La Roche Courier. Students will review and redesign the existing paper, and regularly participate with editorial illustration and photography, ad layout, design and production. Students will achieve an understanding of print production, including the utilization of four-color process and offset printing. *Cross-listed with GCDN3051*

PreRequisites: ENGL1012 - COLLEGE WRITING II

ENGL4040
SPECIAL TOPIC IN LITERATURE (SLLT1012)
Credits (Min/Max): 3/3

The "Select Literature" designation covers a range of courses with varying content or "subject" matter but with the common objective of providing non-majors with an opportunity to learn the fundamental principles of literary analysis.

ENGL4050
SEQUENCING & ASSESSMENT; METHODS OF TEACHING WRITING
Credits (Min/Max): 1/1

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.

ENGL4051
ENGLISH WRITING INTERNSHIP
Credits (Min/Max): 1/6

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.

ENGL4052
ENGLISH WRITING INTERNSHIP II
Credits (Min/Max): 1/6

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.

ENGL4055
SENIOR SEMINAR
Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

ENGL4056
RESEARCH IN ENGLISH STUDIES
Credits (Min/Max): 2/4

Individual investigation in the student's field of interest carried out under the supervision of a faculty member. The student is responsible for defining a problem, planning a course of investigation and reporting the results in a critical paper accompanied by an annotated bibliography.

ENGL4057
ENGLISH-INDEPENDENT STUDY
Credits (Min/Max): 1/6

Individual study course that is supervised by a full-time faculty member.

ESLN0086
LOW BEGINNING READING++
Credits (Min/Max): 4/4

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.

ESLN0087
LOW BEGINNING WRITING++
Credits (Min/Max): 4/4

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.

ESLN0088
LOW BEGINNING SPEAKING++
Credits (Min/Max): 4/4

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.

ESLN0089
LOW BEGINNING GRAMMAR++
Credits (Min/Max): 4/4

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.

ESLN0090
HIGH BEGINNER READING++
Credits (Min/Max): 4/4

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.

ESLN0091
HIGH BEGINNER WRITING++
Credits (Min/Max): 4/4

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.

ESLN0092
HIGH BEGINNER SPEAKING++
Credits (Min/Max): 4/4

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.

ESLN0093
HIGH BEGINNER GRAMMAR++
Credits (Min/Max): 4/4

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.

ESLN0094
HIGH BEGINNER LISTENING++
Credits (Min/Max): 4/4

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.

ESLN0100
LOW INTERMEDIATE READING++
Credits (Min/Max): 4/4

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.

ESLN0101
LOW INTERMEDIATE WRITING++
Credits (Min/Max): 4/4

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.

ESLN0102
LOW INTERMEDIATE SPEAKING++
Credits (Min/Max): 4/4

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.

ESLN0103
LOW INTERMEDIATE GRAMMAR++
Credits (Min/Max): 4/4

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.

ESLN0104
LOW INTERMEDIATE LISTENING++
Credits (Min/Max): 4/4

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.

ESLN0105
HIGH INTERMEDIATE READING++
Credits (Min/Max): 4/4

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.

ESLN0106
HIGH INTERMEDIATE WRITING++
Credits (Min/Max): 4/4

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.

ESLN0107
HIGH INTERMEDIATE SPEAKING++
Credits (Min/Max): 4/4

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.

ESLN0108
HIGH INTERMEDIATE GRAMMAR++
Credits (Min/Max): 4/4

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.

ESLN0120
HIGH INTERMEDIATE LISTENING++
Credits (Min/Max): 4/4

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..

ESLN1009
ADVANCED READING
Credits (Min/Max): 4/4

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).

ESLN1010
ADVANCED WRITING
Credits (Min/Max): 4/4

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).

ESLN1011
ADVANCED SPEAKING
Credits (Min/Max): 4/4

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).

ESLN1012
ADVANCED STRUCTURES OF ACADEMIC ENGLISH
Credits (Min/Max): 4/4

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).

ESLN1013
INTENSIVE READING
Credits (Min/Max): 4/4

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).

ESLN1014
INTENSIVE WRITING
Credits (Min/Max): 4/4

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).

ESLN1015
INTENSIVE SPEAKING
Credits (Min/Max): 4/4

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).

ESLN1030
ADVANCED LISTENING
Credits (Min/Max): 4/4

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.es..

ESLN4057
ENGLISH SECOND LANG INDEP STUDY
Credits (Min/Max): 1/4

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.

FINC3031
INVESTMENTS
Credits (Min/Max): 3/3

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

PreRequisites: ACCT2004 - ACCOUNTING II

FINC3032
FINANCIAL MANAGEMENT
Credits (Min/Max): 3/3

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

PreRequisites: ACCT2004 - ACCOUNTING II

FINC3034
COMMERCIAL BANK MANAGEMENT
Credits (Min/Max): 3/3

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

PreRequisites: FINC3032 - FINANCIAL MANAGEMENT

FINC3036
FINANCIAL INSTITUTIONS
Credits (Min/Max): 3/3

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.

FINC3040
RISK MANAGEMENT AND INSURANCE
Credits (Min/Max): 3/3

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

FINC4033
MANAGERIAL FINANCE
Credits (Min/Max): 3/3

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: FINC3032 - FINANCIAL MANAGEMENT

FINC4039
REAL ESTATE FINANCE
Credits (Min/Max): 3/3

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.

FINC4051
FINANCE INTERNSHIP I
Credits (Min/Max): 1/6

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

FINC4052
FINANCE INTERNSHIP II
Credits (Min/Max): 1/3

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

FVMA1001
MOTION PICTURE FUNDAMENTALS (PITTSBURGH FILMMAKERS-FLM101)
Credits (Min/Max): 3/3

Motion Picture Fundamentals is a hands-on introduction to key photographic concepts and the core concepts of self-expression with moving images. Students shoot photographs, digital video and motion picture film to learn the basic principles and techniques of light, composition, camerawork, editing and storytelling. All equipment is provided, including 35mm still cameras, mini-DV video cameras, super 8-film cameras and digital workstations with Apple's Final Cut Express editing program. Those unfamiliar with MAC OS should consider taking "Introduction to Digital" prior to or concurrent with this course. Students pay for film, videotape, and lab costs. Grading is based on student projects and written exams. In addition to tuition, a \$70 course fee is charged by PFM. Please note that there are three variations on this course, each with a slightly different emphasis. Motion Picture Fundamentals: Film and Digital Video gives equal weight to filmmaking and to digital video. In the Filmmaking Emphasis section, students work more film than digital video and the Digital Video Emphasis section, students work with more digital video than film. However, students are exposed to all media in all sections.

FVMA1004
INTERNATIONAL FILM HISTORY (PITTSBURGH FILMMAKERS-FLM104)
Credits (Min/Max): 3/3

This course puts into perspective the birth, development, and evolution of the foreign film, concentrating on the influence of political, literary and theatrical traditions, culture and Hollywood on film art from individual nations. Topics covered will include technical and stylistic advances in the German and French silent cinemas, the theory and practice of montage in Soviet films, French cinema of the 1930's, Italian neo-realism, the auteur theory, films of the new wave and contemporary European, Asian and third world cinemas. Grading is based on written exams, class participation and attendance at screenings. In addition to tuition, a \$35 course fee is charged by PFM.

FVMA1006
FILM PRODUCTION I (PITTSBURGH FILMMAKERS-FLM106)
Credits (Min/Max): 3/3

This course is designed to develop proficiency in the standard procedures of filmmaking and the use of equipment. Students participate in shooting two 16mm films, editing and building soundtracks. Basic aspects of cinematology, lighting, sound and editing are covered, including the use of 16mm camera, sound equipment and digital editing software (Final Cut Pro). Student projects are viewed and critiqued in class. Outside work is necessary for planning shooting, and editing. All equipment is provided, but students pay for their own film and lab expenses. Grading is based on each student's films, exams on technical basics and class participation. In addition to tuition, a \$70 course fee is charged.

Prerequisites: FVMA1001 - MOTION PICTURE FUNDAMENTALS (PITTSBURGH FILMMAKERS-FLM101)

FVMA1007
ELEMENTS OF FILM (PITTSBURGH FILMMAKERS-FLM107)
Credits (Min/Max): 3/3

This course is an introduction to the critical viewing and understanding of film as an art form. Students learn the vocabulary necessary to analyze film. The function of various film elements is discussed and examples are shown in class from narrative feature films, animation, documentaries and experimental films. Students develop the skills necessary to view, appreciate, understand and discuss film as a complex art, capable of multiple modes of expression and meaning. Grading is based on written exams, homework, and attendance. Outside viewing may be required. In addition to tuition, a \$35 course fee is charged.

FVMA1010
INTRO TO FILM THEORY & CRITICISM (PITTSBURGH FILMMAKERS-FLM110)
Credits (Min/Max): 3/3

This course examines the major aesthetic and theoretical issues encountered in film theory and practice. In this introduction to film criticism, students will examine aesthetic and cultural issues as a background to film theory, study the major figures and issues in the field and make connections to related media and cultural analysis. The course will be organized as a reading and lecture experience. Readings should be done in advance and brought to class. The lectures will provide a broad background for the reading, discussing some particular points from the readings in detail. Grading is based on one written exam, one written analysis and class participation. In addition to tuition, a \$35 course fee is charged by PFM.

FVMA2025
TECHNICAL DIRECTING (PITTSBURGH FILMMAKERS-FLM225)
Credits (Min/Max): 3/3

Basics of designing and directing scenes for motion pictures are addressed in this course. Some of the problems discussed include the relationship of film to reality, the meaning of cinematic techniques, continuity, shot selection, cut selection and visualization techniques. The format is a combination of lecture, screening, and interactive group exercises. Students participate in analyzing and reworking scenes from well-known films. Extensive outside work is necessary, including attending current films, to discuss directorial issues. Grading is based on written exams, practical exercises, homework

and class participation. In addition to tuition, a \$35 course fee is charged.

PreRequisites: FVMA1001 - MOTION PICTURE FUNDAMENTALS (PITTSBURGH FILMMAKERS-FLM101)

FVMA2028
INTRO TO SCREENWRITING (PITTSBURGH FILMMAKERS-FLM228)
Credits (Min/Max): 3/3

As an introduction to writing for film and video, this course combines theory, analysis and practical exercise. Screenwriting basics are covered including story, structure, scene, character, dialogue and action. Students develop stories, scenes and characters and examine the ways in which these elements can be combined in a screenplay. Writing for documentaries is also discussed. Students are required to see selected current films for discussion. Considerable outside work is necessary. Grading is based on the quality of the writing assignments and class participation. In addition to tuition, a \$35 course fee is charged.

FVMA2030
VIDEO PRODUCTION I (PITTSBURGH FILMMAKERS-VID115)
Credits (Min/Max): 3/3

In this hands-on course students acquire the skills to design, shoot and edit video. The class combines demonstrations, lecture, exercise, projects and critiques. Emphasis is placed on visual and aural expression through technical mastery of the video medium. Topics include digital camera operations, lighting, audio recording, scripting, non-linear editing, special effects and audio mixing. Students are expected to focus on designing and producing an effective final project. Grading is based on written exams. All necessary equipment is provided but students must supply videotape. In addition to tuition, a \$70 course fee is required.

PreRequisites: FVMA1001 - MOTION PICTURE FUNDAMENTALS (PITTSBURGH FILMMAKERS-FLM101)

FVMA2045
ELECTRONIC CINEMATOGRAPHY (PITTSBURGH FILMMAKERS-VID317)
Credits (Min/Max): 3/3

This course will cover advanced video technology and professional techniques of videography. Emphasis will be placed on image quality, meeting and broadcast specifications for video and audio, and double-system audio recording. Professional-quality video cameras will be covered extensively. Grading will be based on written exams, in-class production exercises, and an oral presentation. Though students will be asked to shoot video in class, this is not a production course; the cost of materials will be included in the \$70 course fee.

PreRequisites: FVMA2030 - VIDEO PRODUCTION I (PITTSBURGH FILMMAKERS-VID115)

FVMA2048
WRITING & PRODUCING THE SHORT SCRIPT (PITTSBURGH FILMMAKERS-FLM308)
Credits (Min/Max): 3/3

This course is designed to take students through the process of writing and planning a short film. Students will produce a film treatment and then multiple drafts of a script for a film, as well as work through critical phases of pre-production such as budgeting, creating a shooting script, storyboarding, casting, securing locations and acquiring necessary permissions and clearances. Students are expected to participate in critiquing and responding to the written work of others in the class. Significant outside work is required. Grading is based on the quality of the script, the quality of the pre-production work and materials, and class participation. In addition to tuition, a \$35 course fee is charged.

PreRequisites: FVMA2028 - INTRO TO SCREENWRITING (PITTSBURGH FILMMAKERS-FLM228)

FVMA2050
FILM GENRE: TELEVISION HORRORS (PITTSBURGH FILMMAKERS-FLM270)
Credits (Min/Max): 3/3

This course serves as a critical examination of the aesthetics and history of the horror genre as a television phenomenon. The course samples key examples of television horror, drawing from early broadcast shows like Alfred Hitchcock Presents and The Twilight Zone, examining more overtly horrific offerings such as Tales From the Crypt and tracking the genre's evolution into more contemporary series like the groundbreaking Buffy the Vampire Slayer and current cable offerings True Blood and The Walking Dead. Students analyze the style and forms of narrative particular to television while considering the historical and industrial changes in televisual horror that have resulted in strong female-centered series and provocative representations of race, gender and sexuality. The course will be a combination of lecture and discussion with required reading and in-class screenings of excerpts and episodes. Grading is based on two written exams, one analytical paper and participations. In addition to tuition a \$35 course fee is charged by PFM.

FVMA3025
THE ART & BUSINESS OF VOICE-OVER NARRATION (PITTSBURGH FILMMAKERS-FLM130)
Credits (Min/Max): 3/3

This intensive course is designed for people who would like to pursue a career as a trained voice actor. The class covers all the aspects of creating professional voice recordings as well as creating a successful business plan and marketing yourself as a voice talent. Initially, students analyze existing voice-over narrations, finding material best suited for their own voice and recording a finished demo. Class demos involve vocal warm-ups, microphone techniques and breaking down scripts in order to make the copy suit each individual student. Other topics include picking a studio, an engineer and an agent, packaging your demo and finding work. Grading is based on assignments, class participation and the finished demo. In addition to tuition a \$35 course fee is charged by PFM.

FVMA3030
VIDEO PRODUCTION II (PITTSBURGH FILMMAKERS-VID212)
Credits (Min/Max): 3/3

This course challenges students to explore video language while producing a more ambitious work through improved technical skills, including digital modes of post-production. It integrates hands-on demonstrations, lecture, exercises, projects and critiques. Students use digital video camera along with Final Cut Pro to produce a final project. Topics include advanced lighting and audio recording, digitizing, non-linear editing, time code, digital auto mixing, and final output. Grading is based on the quality of work produced and performance on written exams. All necessary equipment is provided but students must supply videotape. In addition to tuition, a \$70 course fee is charged.

PreRequisites: FVMA2030 - VIDEO PRODUCTION I (PITTSBURGH FILMMAKERS-VID115)

FVMA3034
PRODUCING FOR FILM & VIDEO (PITTSBURGH FILMMAKERS-FLM334)
Credits (Min/Max): 3/3

This course explores sound, sound recording and the production of short works of audio of radio broadcast and podcast. Sound productions can be experimental pieces, NPR-type documentaries, enhanced readings, personal profiles, radio drama or comedy. Each production will have the qualities of a "soundscape": a rich, multi-layered work that provides the listener with a powerful, evocative experience. The course begins with a thorough exploration of sound itself-what it is, how it behaves, and how humans perceive it. Students will then learn how to make high quality digital sound recordings in a variety of environments. Finally, extensive work will be devoted to managing, editing and manipulating sound files using Audacity and Apple's Soundtrack Pro. The finished product will be a podcast ready file and an original CD. All final productions meeting baseline standards will be broadcast on local radio. Grading is based on assignments, one exam and class participation. In addition to tuition, a \$70 course fee is charged.

FVMA4051
FILM, VIDEO & MEDIA-INTERNSHIP
Credits (Min/Max): 1/6

Advanced students wishing to pursue careers in media production are encouraged to seek internships through Pittsburgh Filmmakers. The program is designed to give students valuable work experience in their chosen field outside of the classroom environment. Film and video students have interned with local production companies, television stations, feature films and media artists; photography students have been placed with freelance photographers, agencies, publications and curators. Students work with the internship Coordinator to find a suitable position before registering for the internship course.

FVMA4057
FILM/VIDEO/MEDIA-INDEPENDENT STUDY
Credits (Min/Max): 1/3

Advanced students may elect to study film or video production, photography, or digital media on an independent basis by: 1) securing the permission of the instructor with whom you wish to study; 2) writing a preliminary proposal for your independent study; 3) discussing your proposal with your instructor and finalizing it by completing an independent study contract. In addition to tuition, a \$70 course fee is charged.

GCDN1023
DRAWING I(IDSN1023)
Credits (Min/Max): 3/3

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 IDSN1023*

GCDN1025
FUND. OF ELECTRONIC PUBLISHING
Credits (Min/Max): 3/3

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.

GCDN1060
FOUNDATION DESIGN I(IDSN1060)
Credits (Min/Max): 3/3

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 IDSN1060*

GCDN1062
FOUNDATION DESIGN II(IDSN1062)
Credits (Min/Max): 3/3

An extension of the study of issues initiated in GCDN1060 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 IDSN1061*

GCDN1070
COMPUTER GRAPHICS I
Credits (Min/Max): 3/3

This course will explore the theories and techniques presented in GCDN1060. 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.

GCDN1071
COMPUTER GRAPHICS II
Credits (Min/Max): 3/3

This course will explore the theories and techniques presented in GCDN1062, 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.

GCDN1080
WEB GRAPHICS I
Credits (Min/Max): 3/3

This course will prepare students not majoring in Graphic & Communication Design to understand, create and edit correct image types that can be used for web sites. The class will explore design theories specific to web design while introducing software applications specific to creating still images for web sites.

GCDN2005
DIGITAL FINE ARTS(SLAE1003)
Credits (Min/Max): 3/3

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. *Cross-Listed with SLAE1003*

GCDN2008
DIGITAL PUBLISHING
Credits (Min/Max): 3/3

The study of image and type layout, utilizing professional industry software. This course will focus on the integration of type and image through various page layout solutions and will build upon previous studies in image generation.

Prerequisites: GCDN1060 - FOUNDATION DESIGN I(IDSN1060)

GCDN2010
GRAPHIC DESIGN METHODOLOGIES
Credits (Min/Max): 3/3

This studio course will explore, define and analyze the profession of graphic design, through a series of field trips to professional design studios, printing facilities, paper representatives, photographers and other professional specialist. The use of quantitative and qualitative research methods in visual communication will focus on real-life case studies, which will help young designers synthesize practical solutions. This course places heavy emphasis on visual problem-solving skills and will help prepare students for the Mid-Collegiate Review process.

Prerequisites: GCDN1060 - FOUNDATION DESIGN I(IDSN1060)

GCDN2011
PAINTING-PASTELS & WATERCOLORS
Credits (Min/Max): 3/3

This class will introduce the student to the techniques and methods of watercolor & pastel. The course places primary emphasis on the handling of the media.

GCDN2012
TYPOGRAPHY I
Credits (Min/Max): 3/3

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: GCDN1060 - FOUNDATION DESIGN I(IDSN1060)

GCDN2016
DIGITAL PHOTOGRAPHY
Credits (Min/Max): 3/3

This course will explore digital capture and handling of photographs enabling the student to master the technical aspects of digital image capture. Students will learn techniques for editing and enhancing photographs, become familiar with photography's various roles: art form, journalism, advertising and will produce a portfolio of quality color and black and white prints from digital files.

GCDN2021
GRAPHIC DESIGN I
Credits (Min/Max): 3/3

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: GCDN1062 - FOUNDATION DESIGN II(IDSN1062)

GCDN2029
MULTIMEDIA I
Credits (Min/Max): 3/3

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

Prerequisites: GCDN1070 - COMPUTER GRAPHICS I

GCDN2038
AD ILLUSTRATION I

Credits (Min/Max): 3/3

The study of contemporary techniques and methods for illustrations.

PreRequisites: GCDN1023 - DRAWING I(IDSN1023)

GCDN2040

WORD & IMAGE

Credits (Min/Max): 3/3

An in-depth study of the symbiotic relationship between words and images and the importance of integrating text with visual information to achieve professional results. Emphasis will be placed on the juxtaposition of image and text in order to produce coherent design. Problems will focus on concept generation and problem solving.

GCDN2047

PHOTOGRAPHIC LIGHTING TECHNIQUES

Credits (Min/Max): 3/3

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.

GCDN2080

WEB GRAPHICS II

Credits (Min/Max): 3/3

This course will prepare students not majoring in Graphic & Communication Design to understand, create and edit correct advanced image and animations that can be used for web sites. The class will explore design theories specific to web design while introducing software applications specific to creating motion images for web sites.

GCDN3010

WRITING & PRESENTING FOR DESIGNERS(IDSN3010)

Credits (Min/Max): 3/3

This course will explore various writing techniques that are specific to the fields of Graphic & Communication Design and Interior Design and will include: copy and headlines, press releases, web page texts, television & radio commercial messages, design briefs and presentation notes. Students will learn effective ways to make presentations to clients in both individual and creative team situations, as well as practice their ability to articulate design concepts to an audience. In addition to being beneficial to Graphic Design and Interior Design students, the course could be offered to marketing, information systems technology and other programs beginning in the fall of 2010. *Cross-listed with IDSN3010*

PreRequisites: ENGL1012 - COLLEGE WRITING II

GCDN3016

HISTORY OF FILM(ARTH3016)

Credits (Min/Max): 3/3

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 ARTH3016*

GCDN3022

TYPOGRAPHY II

Credits (Min/Max): 3/3

Further development of the ideas, techniques and principles studied in GCDN2012. 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: GCDN2012 - TYPOGRAPHY I

GCDN3024

PROFESSIONAL PRESENTATION

Credits (Min/Max): 3/3

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.

GCDN3026

DIGITAL PREPRESS & PRINTING

Credits (Min/Max): 3/3

This course investigates the electronic preparation of images and files for print publications.

GCDN3029

ADVANCED WEB DESIGN

Credits (Min/Max): 3/3

Advanced Web Design continues to concentrate on the principles of design, development, and implementation of web-based solutions. Students in this class will focus primarily on the strategic efforts of constructing entire websites from the ground up - working individually and as part of a team.

GCDN3031
GRAPHIC DESIGN II
Credits (Min/Max): 3/3

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

PreRequisites: GCDN2021 - GRAPHIC DESIGN I

GCDN3041
GRAPHIC DESIGN III
Credits (Min/Max): 3/3

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

PreRequisites: GCDN3031 - GRAPHIC DESIGN II

GCDN3043
DESIGN FOR PACKAGING
Credits (Min/Max): 3/3

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. *Senior status in GCD or with permission of department chair.*

GCDN3045
MULTIMEDIA II
Credits (Min/Max): 3/3

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 GCDN3031 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.

GCDN3046
MULTIMEDIA III
Credits (Min/Max): 3/3

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 GCDN3041 Graphic Design III, 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: GCDN3041 - GRAPHIC DESIGN III

GCDN3051
PUBLICATION DESIGN(ENGL3051)
Credits (Min/Max): 3/3

Intended for prospective designers as well as writers, the course will educate students in newspaper graphics and design. Hands-on experience will require participation in the La Roche Courier. Students will review and redesign the existing paper, and regularly participate with editorial illustration and photography, ad layout, design and production. Students will achieve an understanding of print production, including the utilization of four-color process and offset printing. *Cross-listed with ENGL3051*

GCDN4021
DESIGN STUDIO:SPECIAL TOPICS
Credits (Min/Max): 3/3

The design studio class is a full-service, student-run communications/design agency that solely creates work for legitimate, real-time clients. Students who work in the design studio will gain an appreciation and an in-depth understanding of the business of design. To gain acceptance into this course, students must fill out an application and undergo a portfolio review and interview by GCD faculty.

GCDN4041
DESIGN IN ADVERTISING
Credits (Min/Max): 3/3

This course will provide an in-depth examination of selected topics in Communication in Advertising. The course will focus on theories of Communication in Advertising for both Print and Multimedia campaigns. These theories will be synthesized through the culmination of the student's educational experience to this point. The student's projects will explore these different issues and the close relationship between print and multimedia campaigns in communication. Reviewing projects that reflect the same message of offline and online campaigns will be emphasized. This class will further explore issues introduced in the required Junior and Senior course work. Student solutions will be assessed and evaluated through demonstrations and presentations in a professional setting. Contributions from professionals and local firms will be a major part of this course curriculum.

GCDN4050
GCDN:SPECIAL TOPICS
Credits (Min/Max): 3/3

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.

GCDN4051
GRAPHIC DESIGN INTERNSHIP I
Credits (Min/Max): 3/6

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

GCDN4055
GRAPHIC DESIGN IV: SENIOR DESIGN SEMINAR
Credits (Min/Max): 3/3

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: GCDN3031 - GRAPHIC DESIGN II

GCDN4057
GRAPHIC & COMMUNICATION- INDEPENDENT STUDY
Credits (Min/Max): 1/3

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

GCDN4058
PORTFOLIO PREPARATION
Credits (Min/Max): 3/3

This course consists of instruction and guidance in the preparation of a professional portfolio, including resume preparation and staged interviews.

GEOG2011
WORLD GEOGRAPHY(INST2011)
Credits (Min/Max): 3/3

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 INST2011*

GEOG2012
EUROPEAN GEOGRAPHY
Credits (Min/Max): 3/3

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.

GEOG3010
CULTURAL GEOGRAPHY & THE HUMAN MOSAIC(INST3010)
Credits (Min/Max): 3/3

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.

GEOG3013
GEOGRAPHY & WORLD AFFAIRS (INST3013)
Credits (Min/Max): 3/3

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 INST3013*

GLBL4005
WHY WE FIGHT: HISTORICAL CONFLICT IN FACT, FICTION & FILM
Credits (Min/Max): 3/3

An integrated study of the history and the stories, both historical and fictionalized, of wars, civil wars, revolutions ♦ armed struggles between communities throughout the world. By exploring examples from both the historical record, including biography and autobiography, and the tales created about real events and/or realistic characters, such as in novels, short stories, film, and poetry, students will understand more about who goes to war, why wars are fought, and the road toward peace. This is vital because War is more than simply an absence of Peace, and in order to more fully carry out part of the college ♦s Mission Statement, ♦to promote justice and peace in a constantly changing global society ♦, we should learn more about what brings about, occurs during, and may bring to an end such tragic strife. There will be four major sections to the course: 1) The leaders, from kings and presidents to lieutenants and NCOs; 2) The common soldiers or sailors, those who follow into battle and/or those who get caught up in it; 3) the causes for which they fought/fight, from high ideals to survival; and 4) a final section that explores how the three previous issues are intertwined. Included in the course will be the rhetoric both of those who fought and those who told the stories, the methods and tools of warfare, the creation and use of propaganda, and the differing views of history/reality from opposing sides in battle.

PreRequisites: EN111 - COLLEGE WRITING I

GLBL4007
INTERNET, COMMUNICATION & DEVELOPMENT
Credits (Min/Max): 3/3

This course explores the issues of global communication, technology and development primarily by examining how internet and communication technologies are being used to improve development. From the least developed countries, to the pockets of poverty and deprivation in the richest

countries, information and communication technologies are being used in innovative ways to improve lives. The uses of ICTs for health, education, business, government and agriculture will be studied.

GLBL4011

CRIME & TERROR: A GLOBAL PERSPECTIVE

Credits (Min/Max): 3/3

This course, through the integration of the disciplines of criminal justice, national security studies, history, and political science will examine the concept of globalization by focusing on its key components. Elements such as technology, trade, financial networks, reduction of the power of national governments, and the creation and opening of new markets will be explored by looking at their effect on the individual and the community. The course will demonstrate how the global influences on individuals and communities affect both legitimate and illegitimate institutions and organizations. The ultimate focus will be on the increasing power and danger of global crime and terror organizations and how they operate. An appreciation of their everyday social and economic effects on individuals and communities will be developed through case studies of selected deviant organizations. The topics of differing criminal justice and political systems; state support of international money laundering operations; the increasing power of fundamentalist religious groups and their influence on terrorism; and international sharing of information will be presented and problems and solutions will be explored.

GLBL4011H

CRIME & TERROR: A GLOBAL PERSPECTIVE-HONORS

Credits (Min/Max): 3/3

This honors Global course integrates the disciplines of criminal justice, national security studies, political science, and the natural sciences in a study of globalization's influence on international crime and terrorism that is linked to the natural environment. Subjects such as resource scarcity, pollution, desertification, species elimination, and climate change will be explored by examining their effects on the individuals and communities that are linked to the world's ecosystems. The main focus will be on the increasing power and danger of global crime and terror organizations and how they use the natural environment as a target for their illegal activities. An appreciation of their everyday social and economic effects on individuals and communities will be developed through case studies of selected deviant organizations.

GLBL4015

EARLY CANADIAN HISTORY & TALES

Credits (Min/Max): 3/3

An integrated study of the early history of Canada, up to the late 1800s, and the literature and films both from and about those times. Students will begin this study with the times of the first explorers, from Champlain's books, to the colonization of the land and native people by the French, especially its Catholic missionaries. The course will then transition to the arrival of the British, beginning with the war that expelled French rule but not its colonists in the east, the impact of wars with America (both the Revolution and of 1812), and the push west to the edge of the Prairies. Finally, we will explore the great Arctic explorers stories, such as Franklin's epic and tragic history, the Métis rebellion in the country's heartland, and the literal nation building accomplished by the cross continental railroad reaching Vancouver, 1871-1885, soon after the nation's Confederation in 1867.

PreRequisites: EN111 - COLLEGE WRITING I

GLBL4017

DISEASES THAT CHANGED THE WORLD

Credits (Min/Max): 3/3

The history of the world has been and continues to be significantly impacted by infectious diseases. Examples include changes in ethnic diversity in the U.S. due to European potato blights, the outcome of world wars where more soldiers died of influenza or cholera than battle wounds, the destruction and contamination of the natural environment in attempts to control malaria- and yellow fever-carrying mosquitoes, and prejudices against various national and ethnic groups as carriers of disease. At the same time that infectious diseases have altered human politics, economics and culture, human behaviors and technological advances have caused the global spread of once-isolated diseases and the emergence of new plagues. However, history has also shown that, with the right combination of scientific knowledge and global political, financial and social commitment, even the oldest and most feared microbial plagues can be controlled and possibly even eradicated. This course is a study of the history of various infectious diseases including the biological, social, economic and political factors that affect and are affected by these diseases.

GLBL4025

WOMEN ACROSS CULTURES

Credits (Min/Max): 3/3

This course will explore the varying roles, positions & statuses of women in the developing world. Among the topics covered are the roots of patriarchy; women's health; women & work; women & development; the similarities & differences in women's experiences across diverse regions; the dynamics & creativity of women's activities & their importance in various cultures; gender roles & relationships; the historical & cultural roots & consequences of subordination & oppression; roles of women in agriculture, religion, politics, the arts & other arenas; the impact of globalization on women's lives; and, the global struggle for women's rights.

GLBL4027

GLOBAL JUSTICE & HUMAN RIGHTS Historical, Political, & Social- Economic Perspectives

Credits (Min/Max): 3/3

This global integrative course, combining a number of elements from the social sciences, will focus on issues of human rights in the modern world - linking compelling problems of issues of today with their historical roots and with implications for tomorrow's world.

GLBL4029

GLOBAL ADORNMENT

Credits (Min/Max): 3/3

This global core curriculum course presents an interdisciplinary exploration of adornment - jewelry, body art, ornamentation and the like - as an essential component of global cultures, ritual and individual and collective identity formation and expression. The course will explore the general role of adornment in identity formation and cultural process. Students will examine the form and role of adornment has assumed in several specific cultures, exploring both differences and similarities, and the impact that globalization has had on cultural adornment in terms of preservation,

alteration, and destruction. Students will also experience the process of creating cultural adornments of various types through applied design and art activities. Through the travel component (which initially may be offered separately), students will learn firsthand about adornment in a specific culture, studying the cultural, economic, and operational aspects of adornment production, sale and use.

GLBL4033
LITERACY, CULTURE & EDUCATION
Credits (Min/Max): 3/3

This course is designed to place education in a global context by examining the complex networks that link a culture's ideas of and uses for literacy to the formal educational structures created and sustained by those ideas. Students will examine how "schooled literacy" is defined in different cultures, investigate how schools in U.S. culture literacy, and examine the cultural and social uses imagined for literacy and schooling.

GLBL4045
MORAL OF THE STORY
Credits (Min/Max): 3/3

This course addresses prominent global issues and problems through the dual lens of philosophical ethics and literature. The nature of the course is global in its attention to a wide range of issues stemming from globalization, including those pertaining to the environment, society, religion, and politics; it is also interdisciplinary in its employment of both Ethics and World Literature as vehicles for the analysis of such global concerns. Students read selections of classic and contemporary literature by renowned authors and investigate issues of global ethics 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.

HIST1010
US HIST 1607-1865 FOUNDATIONS OF A REPUBLIC
Credits (Min/Max): 3/3

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

HIST1011
US HIST:EMERG OF MASS DEMOCRACY (1865-1945)
Credits (Min/Max): 3/3

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. *Cross-listed with SLHS1006*

HIST1011H
US HIST:EMERG OF MASS DEMOCRACY (1865-1945)-HONORS(SLHS1006H)
Credits (Min/Max): 3/3

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. *Cross-listed with SLHS1006H*

HIST1012
US HIST:CONTEMP TIMES(1945-PRES)
Credits (Min/Max): 3/3

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.

HIST1013
WESTERN CIVILIZATION I
Credits (Min/Max): 3/3

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*

HIST1014
WESTERN CIVILIZATION II
Credits (Min/Max): 3/3

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.*

HIST2000
BRITAIN AND ITS EMPIRE
Credits (Min/Max): 3/3

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.

HIST2023
THE HISTORY OF ENGLAND
Credits (Min/Max): 3/3

A study of England from Roman times to the Revolution of 1688 with special emphasis on the rise of Parliament and on the growth of Common Law. This course traces the transition of England from a part of Mediterranean culture to a part of French Catholic Europe to becoming a distinctive culture of its own.

HIST2035
HISTORY OF LATIN AMERICA
Credits (Min/Max): 3/3

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

HIST2040
THE HISTORY OF WESTERN PENNA
Credits (Min/Max): 3/3

The course covers the history of Western Pennsylvania from prehistoric times to the present. Special emphasis is given to the history of Pittsburgh and Southwestern Pennsylvania; the Indian cultures; the colonial and revolutionary periods; the impact of industrialization; religion and immigration and the renaissance.

HIST2045
ISLAM IN THE WORLD (POLI/SOCL2045)
Credits (Min/Max): 3/3

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 POLI/SOCL2045*

HIST3000
HISTORY & CULTURE OF AMER INDIAN
Credits (Min/Max): 3/3

A study of the American Indian from prehistoric time to the present with emphasis on affects of Euro-American contact on native American culture.

HIST3002
HISTORY OF EUROPEAN DIPLOMACY (POLI3002)
Credits (Min/Max): 3/3

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 syle diplomacy in the World War/Cold War era is described. *Cross-listed with POLI3002*

HIST3005
CONTEMPORARY CENTRAL AMERICA
Credits (Min/Max): 3/3

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.

HIST3008
THE GREEK WORLD
Credits (Min/Max): 3/3

The course will cover the Minoan, Hellenic and Hellenistic periods, including the study of Achaean civilization, the Classic period, Alexander's empire and the successor states. Special emphasis is placed on those aspects of Greek history and culture that are considered the foundation of Western civilization. Core Course.

HIST3010
THE ROMAN WORLD
Credits (Min/Max): 3/3

A study of the Roman Republic and Empire from 776 B.C. to 476 A.D. Special emphasis is placed on republican institutions, the expansion of the Empire, the collapse of the Republic, the development of the reasons for the fall of the Empire. Core Course.

HIST3015
HISTORY/POLITICAL THOUGHT (POLI3015)
Credits (Min/Max): 3/3

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 POLI3015*

HIST3017
THE MIDDLE AGES
Credits (Min/Max): 3/3

A study of the political, economic, social, religious, and intellectual developments of Europe from the fourth through the fourteenth centuries. Special emphasis will be placed on the Germanic invasions, the growth and development of Western Christianity, feudalism, the origins and growth of medieval commerce and urban life, and the development of centralized monarchies and nationalism.

HIST3018
HISTORY OF AFRICA
Credits (Min/Max): 3/3

In this course we investigate the origins of pre-colonial African civilizations; analyze the spread of global trade within and beyond Africa; explore the colonial period in terms of British, French and Portuguese empire-building; and examine resistance to colonialism, the independence movements, and post-colonial (contemporary) politics in Africa.

HIST3019
HISTORY OF JAPAN
Credits (Min/Max): 3/3

A study of Japan from its first contact with Western civilization in the 17th century to the present including the period of isolation, the opening of Japan, the rise of militarism, World War II and Japan in the modern world.

HIST3020
RUSSIA & THE SOVIET WORLD
Credits (Min/Max): 3/3

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.

HIST3023
MODERN U.S. DIPLOMATIC HISTORY (INST/POLI3023)
Credits (Min/Max): 3/3

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 INST/POLI3023*

HIST3024
EXPERIENCE OF MODERN WAR
Credits (Min/Max): 3/3

A study in the growth and development of the modern style of warfare from isolated European wars to global wars. Emphasis will be placed on the changing role of technology in warfare; the changing way in which wars are fought; the impact of those changes on the changing experiences of war for the soldier and civilian; and a look at the way newspapers, music, and film shape the way war is experienced.

HIST3025
SPECIAL TOPIC IN HISTORY
Credits (Min/Max): 3/3

FA11-Folklore in Pennsylvania: In this course we pursue the history of legends and folklore in Pennsylvania through a variety of methods, focusing mostly on reading and analyzing the meaning of local legends and folk stories over time. In doing so, significant aspects of Pennsylvanian society and social changes will be revealed. This course offers a unique perspective on social history and social values from ordinary Pennsylvanians.

SU11-The Civil War: This course will analyze the history of the American Civil War, including strategy, tactics, and the social and political consequences of the conflict, as well as the experiences of common soldiers, civilians and soon to be freed slaves. Students will examine the most important battles and leaders, and the strategies that decided the outcome, in a stimulating discussion-based environment.

HIST3026
HISTORY OF MODERN GERMANY
Credits (Min/Max): 3/3

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.

HIST3027
HISTORY OF MODERN EUROPE (INST3027)
Credits (Min/Max): 3/3

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. *Cross-listed with INST3027*

HIST3028
EAST ASIAN HISTORY(INST3028)
Credits (Min/Max): 3/3

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 INST3028*

HIST3029
HISTORY & POLITICS-MIDDLE EAST :SPECIAL TOPIC IN HISTORY
Credits (Min/Max): 3/3

The history of the Arab-Israeli conflict from the Palestinians' first encounter with Zionism through the current peace process of the 1990s. The history of the Jewish Enlightenment (Haskala) in 19th Century Europe and the development of Zionism through the current peace process between the state of Israel and the Arab states and the Palestinian national movement will be explored, as will the impact of colonialism and the development of nationalism in the Arab world. These various factors will be related to salient global developments of the 20th century.

HIST3030
WOMEN IN AMERICAN HISTORY
Credits (Min/Max): 3/3

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.

HIST3036
HIST AMER POL VALUES(POLI3036)
Credits (Min/Max): 3/3

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 POLI3036*

HIST3037
RELIG INFL ON US DVMT(RELS3037)
Credits (Min/Max): 3/3

An examination and interpretation of the religious forces that were influential in shaping American social structures, mores, law and popular opinion from the time of the first Spanish missionaries to the present. Special emphasis is placed on religious liberty in the American ideal and on religious pluralism. *Core Course Cross-listed with RELS3037*

HIST3038
HISTORY OF BLACK AMERICANS
Credits (Min/Max): 3/3

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.

HIST3039
U.S. LABOR HISTORY & LIT (ENGL3039):SPECIAL TOPICS IN HISTORY
Credits (Min/Max): 3/3

This course investigates American Labor, from colonial day to the present, from both historical and literacy perspective. *Cross-listed with ENGL3039*

HIST3040
VARIETIES OF EARLY CHRISTIANITY (RELS3040)
Credits (Min/Max): 3/3

This course treats Christianity from its origins through the medieval period. Special attention is given to internal issues and external forces, which caused conflict, adjustment, development, and finally varieties within the Christian world. For instance, it explores how dissident movements, the conversion of Constantine, the Germanic invasions, and the rise of Islam, feudalism, and papal power affected Christianity. The course also attempts to analyze how tensions between the institutional church and popular religious movements influenced society. *Cross-listed with RELS3040*

HIST3045
HISTORY & POLITICS OF MID EAST (POLI3045)
Credits (Min/Max): 3/3

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 POLI3045*

HIST3050
HISTORY METHODOLOGY
Credits (Min/Max): 3/3

This is an introductory historical methods seminar involving students in identifying, understanding, and utilizing conceptual building-blocks of comparative historical analysis. Comparative History is rooted in a larger scholarly discipline whose elements, methodologies, and divergent philosophies will be touched on. Notions of historical stages, social classes and power structures, ideology, and identities (such as race, class, gender, nationality, etc.) will be examined, as well as culture and ♦mentalities♦. There will be an identification of different areas in the discipline ♦ such as political history, intellectual history, cultural history, economic history, social history. Attention will be given to historical examinations of the rise and contradictions of revolutionary republics and totalitarian dictatorships, with reference to diverse countries. Contributions from a number of prominent historians will be utilized, and differing interpretations among historians will be probed.

HIST3051
DEVELOPMENT IN SOUTHEAST ASIA (POLI/SOCL3051)
Credits (Min/Max): 3/3

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 PS/SOC 351*

HIST3052
EXPERIENCE OF MODERN WAR (POLI3052)
Credits (Min/Max): 3/3

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 POLI3052*

HIST4055
SENIOR SEMINAR
Credits (Min/Max): 3/3

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*

HIST4056
DIRECTED RESEARCH
Credits (Min/Max): 2/4

Individual research in history 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.

HIST4057
HISTORY-INDEPENDENT STUDY
Credits (Min/Max): 1/3

Individual study supervised by a full-time faculty member.

HRMT5011
CONCEPTS OF FIN ANAL & BUDGET
Credits (Min/Max): 3/3

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.

HRMT5012
LEGAL ASPECTS OF HRM
Credits (Min/Max): 3/3

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.

HRMT5013
QUANT. RES. METHODS IN HRM
Credits (Min/Max): 3/3

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: MATH1040 - PROBABILITY & STATISTICS

HRMT5020
ORGANIZATIONAL BEHAVIOR
Credits (Min/Max): 3/3

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.

HRMT5023
ORGANIZATIONAL THEORY
Credits (Min/Max): 3/3

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.

HRMT5025A
INTEGRATIVE SEMINAR
Credits (Min/Max): 3/3

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: HRMT5013 - QUANT. RES. METHODS IN HRM

HRMT5025B
INTEGRATIVE SEMINAR
Credits (Min/Max): 3/3

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.

HRMT6000
HUMAN RESOURCES INFORMATION SYSTEMS
Credits (Min/Max): 3/3

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.

HRMT6001
COMPUTER & WEB BASED TRAINING
Credits (Min/Max): 3/3

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.

HRMT6002
WORKFORCE DIVERSITY: LOCAL & GLOBAL PERSPECTIVES
Credits (Min/Max): 3/3

This course examines the strategic management of workforce diversity from both a local and a global perspective. The course begins with a study of historical and contemporary forms of prejudice and discrimination, in the U.S. and abroad, followed by an exploration of the local and global legislation related to equal opportunity in the workforce. Students will learn about different approaches to diversity management and how to handle diversity metrics. They will also study the issues that affect specific identity groups, defined by such factors as religion, disability, age, gender, sexual orientation, and race/ethnicity.

HRMT6006
TOPICS IN INTERNATIONAL HRM
Credits (Min/Max): 3/3

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.

HRMT6011
ADV. TOPICS IN LEGAL ASPECTS
Credits (Min/Max): 3/3

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.

HRMT6012
TRAINING AND DEVELOPMENT
Credits (Min/Max): 3/3

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.

HRMT6013
COMPENSATION MANAGEMENT
Credits (Min/Max): 3/3

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.

HRMT6015
EMPLOYEE BENEFITS ADMINISTRATION
Credits (Min/Max): 3/3

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.

HRMT6016
EMPLOYEE HEALTH & SAFETY
Credits (Min/Max): 3/3

This course presents an overview of relevant and current information regarding health/mental health, safety, and security issues affecting the 21st-century workplace and the develop of services by the human resources team to respond to these issues. Through this course students will explore employee assistance programs and other related services. Topics will also include compliance with legislation and regulations related to the health and safety of the American worker.

HRMT6017
RECRUITMENT AND PLACEMENT
Credits (Min/Max): 3/3

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.

HRMT6018
LEADERSHIP
Credits (Min/Max): 3/3

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.

HRMT6020
INTERVENTION & ORGANIZATIONAL CHANGE
Credits (Min/Max): 3/3

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.

HRMT6021
LABOR RELATIONS & COLLECTIVE BARGAINING
Credits (Min/Max): 3/3

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.

HRMT6028
INTERNET & TECH RECRUITING
Credits (Min/Max): 3/3

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.

HRMT6034
MANAGING INFORMATION TECHNOLOGY & CHANGE
Credits (Min/Max): 3/3

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.

HRMT6035
SHRM LEARNING SYSTEM
Credits (Min/Max): 3/3

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.

HRMT6036
PERFORMANCE MANAGEMENT
Credits (Min/Max): 3/3

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.

HSCG0001
PROFESSIONAL ASPECTS OF ANESTH
Credits (Min/Max): 0/1

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.

HSCG5000
PHARMACOLOGY I
Credits (Min/Max): 3/3

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.

HSCG5001
PHARM OF ANESTHETIC AGENTS II
Credits (Min/Max): 3/3

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.

HSCG5003
ORGANIC & MEDICINAL CHEMISTRY
Credits (Min/Max): 3/3

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.

HSCG5004
BIOCHEMISTRY
Credits (Min/Max): 4/4

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.

HSCG5010
RESEARCH METHODOLOGY
Credits (Min/Max): 3/3

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.

HSCG5012
MEDICAL PHYSICS
Credits (Min/Max): 4/4

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.

HSCG5021
ANAT, PHYS, & PATHOPHYS I
Credits (Min/Max): 5/5

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.

HSCG5022
ANAT, PHYS, & PATHOPHYS II
Credits (Min/Max): 5/5

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.

HSCG5030
ANESTHESIA DIDACTICS I
Credits (Min/Max): 6/6

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.

HSCG6012
NURSING RESEARCH II
Credits (Min/Max): 3/3

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.

HSCG6030
ANESTHESIA DIDACTICS II
Credits (Min/Max): 6/6

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.

HSCG6055
ADVAN THEORY & PROC OF ANESTH
Credits (Min/Max): 4/4

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.

HSCU2001
RADIOLOGIC TECHNOLOGY I
Credits (Min/Max): 2/2

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.

HSCU2002
CLINICAL EDUCATION I
Credits (Min/Max): 1/1

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.sance.

HSCU2003
RADIOLOGIC TECHNOLOGY II
Credits (Min/Max): 2/2

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.

HSCU2004
CLINICAL EDUCATION II
Credits (Min/Max): 2/2

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.

HSCU2005
RADIOLOGIC TECHNOLOGY III
Credits (Min/Max): 2/2

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.

HSCU2006
CLINICAL EDUCATION III
Credits (Min/Max): 3/3

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.

HSCU2007
RADIOLOGIC TECHNOLOGY IV
Credits (Min/Max): 2/2

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.

HSCU2008
CLINICAL EDUCATION IV
Credits (Min/Max): 2/2

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.

HSCU2009
RADIOLOGIC TECHNOLOGY V
Credits (Min/Max): 2/2

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.

HSCU2010
CLINICAL EDUCATION V
Credits (Min/Max): 2/2

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.

HSCU2011
RADIOLOGIC TECHNOLOGY VI
Credits (Min/Max): 2/2

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.

HSCU2012
CLINICAL EDUCATION VI
Credits (Min/Max): 2/2

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.

HSCU2013
RADIOLOGIC TECHNOLOGY VII
Credits (Min/Max): 2/2

Students in the A.S. program in radiologic technology enroll for 26 credits in radiologic technology principles and clinical practice, taught at Ohio Valley General Hospital School of Radiography. Portions of this internship are taught each semester, for six consecutive semesters (fall, spring and summer of years 1 and 2).

IDSN1011
INTERIOR GRAPHICS I
Credits (Min/Max): 3/3

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.

IDSN1020
INTERIOR DESIGN I
Credits (Min/Max): 3/3

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: IDSN1011 - INTERIOR GRAPHICS I

IDSN1021
INTERIOR DESIGN GRAPHICS II
Credits (Min/Max): 3/3

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: IDSN1011 - INTERIOR GRAPHICS I

IDSN1023
DRAWING I(GCDN1023)
Credits (Min/Max): 3/3

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 GCDN1023*

IDSN1060
FOUNDATION DESIGN I(GCDN1060)
Credits (Min/Max): 3/3

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 GCDN1060*

IDSN1062
FOUNDATION DESIGN II(GCDN1062)
Credits (Min/Max): 3/3

An extension of the study of issues initiated in IDSN1060 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 GCDN1062*

PreRequisites: IDSN1060 - FOUNDATION DESIGN I(GCDN1060)

IDSN2015
COMPUTER GRAPHICS FOR ID
Credits (Min/Max): 3/3

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 IDSN1011-Interior Graphics I and IDSN1021-Interior 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: IDSN1021 - INTERIOR DESIGN GRAPHICS II

IDSN2032
HISTORY OF ID & ARCHITECTURE I
Credits (Min/Max): 3/3

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: ENGL1012 - COLLEGE WRITING II

IDSN2035
INTERIOR PHOTOGRAPHY
Credits (Min/Max): 3/3

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.

IDSN2037
TEXTILES FOR INTERIORS
Credits (Min/Max): 3/3

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: IDSN2046 - BUILDING TECH II:FINISH MATERIAL

IDSN2038A
INTERIOR DESIGN II(A)
Credits (Min/Max): 3/3

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.

IDSN2038B
INTERIOR DESIGN II(B)
Credits (Min/Max): 3/3

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: IDSN2038A - INTERIOR DESIGN II(A)

IDSN2038C
INTERIOR DESIGN II(C)
Credits (Min/Max): 3/3

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.

IDSN2039
HISTORY OF ID & ARCHITECTURE II
Credits (Min/Max): 3/3

A survey of interiors and architecture from the Renaissance through the 18th century, with special emphasis on styles and furniture.

PreRequisites: ENGL1012 - COLLEGE WRITING II

IDSN2044
BUILDING TECH I: CONSTRUCTION
Credits (Min/Max): 3/3

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: IDSN1021 - INTERIOR DESIGN GRAPHICS II

IDSN2045
ARCHITECTURAL RENDERING
Credits (Min/Max): 3/3

An advanced course in the delineation of the interior space. Emphasis is on the development of individual style and expanded technical rendering knowledge.

PreRequisites: IDSN1021 - INTERIOR DESIGN GRAPHICS II

IDSN2046
BUILDING TECH II: FINISH MATERIAL
Credits (Min/Max): 3/3

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: IDSN1021 - INTERIOR DESIGN GRAPHICS II

IDSN2048
FURNITURE & CUSTOM DETAILING
Credits (Min/Max): 3/3

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: IDSN2038A - INTERIOR DESIGN II(A)

IDSN2050
DIRECTED STUDY
Credits (Min/Max): 1/3

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.

IDSN3010
WRITING & PRESENTING FOR DESIGNERS(GCDN3010)
Credits (Min/Max): 3/3

This course will explore various writing techniques that are specific to the fields of Graphic & Communication Design and Interior Design and will include: copy and headlines, press releases, web page texts, television & radio commercial messages, design briefs and presentation notes. Students will learn effective ways to make presentations to clients in both individual and creative team situations, as well as practice their ability to articulate design concepts to an audience. In addition to being beneficial to Graphic Design and Interior Design students, the course could be offered to marketing, information systems technology and other programs beginning in the fall of 2010. *Cross-listed with GCDN3010*

PreRequisites: ENGL1012 - COLLEGE WRITING II

IDSN3015
STUDY OF GREAT AMERICAN HOUSES
Credits (Min/Max): 3/3

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.

IDSN3028A
INTERIOR DESIGN III(A)
Credits (Min/Max): 3/3

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.

IDSN3028B
INTERIOR DESIGN III(B)
Credits (Min/Max): 3/3

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: IDSN3028A - INTERIOR DESIGN III(A)

IDSN3032
HISTORY OF ID & ARCHITECTURE III
Credits (Min/Max): 3/3

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.

IDSN3040
BUILDING TECH III: LIGHT & ELEC
Credits (Min/Max): 3/3

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: IDSN2038A - INTERIOR DESIGN II(A)

IDSN3041
BUILDING TECH IV: CONTROL SYSTEM
Credits (Min/Max): 3/3

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: IDSN2038B - INTERIOR DESIGN II(B)

IDSN3055
KITCHEN AND BATH DESIGN
Credits (Min/Max): 3/3

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.

IDSN3059
ADVANCED IDEAS SEMINAR IN ID
Credits (Min/Max): 1/3

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.

IDSN4041
BUSINESS PRACTICES FOR ID
Credits (Min/Max): 3/3

Professional aspects concerning the practice of interior design including such topics as estimation, trade relations, contracts and office procedures and organization.

PreRequisites: IDSN2038B - INTERIOR DESIGN II(B)

IDSN4042
CONTRACT DOCUMENTS
Credits (Min/Max): 3/3

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: IDSN2044 - BUILDING TECH I: CONSTRUCTION

IDSN4051
INTERIOR DESIGN INTERNSHIP I
Credits (Min/Max): 1/6

A practical work experience in a field setting. The student receives credit for work performed in the area of interior design.

IDSN4052
INTERIOR DESIGN INTERNSHIP II
Credits (Min/Max): 1/3

A practical work experience in a field setting. The student receives credit for work performed in the area of interior design.

IDSN4057
INTERIOR DESIGN-INDEPENDENT STUDY
Credits (Min/Max): 1/3

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.

IDSN4058
PORTFOLIO PREPARATION
Credits (Min/Max): 3/3

Instruction and guidance in the preparation of a professional portfolio. Prerequisite: senior status in interior design major.

PreRequisites: IDSN3028A - INTERIOR DESIGN III(A)

IDSN4059
SENIOR DESIGN SEMINAR I
Credits (Min/Max): 3/3

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 IDSN4060 Senior Design Seminar II.

PreRequisites: IDSN2044 - BUILDING TECH I: CONSTRUCTION

IDSN4060
SENIOR DESIGN SEMINAR II
Credits (Min/Max): 3/3

Building on the research knowledge and design program evolved in IDSN40459 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: IDSN4059 - SENIOR DESIGN SEMINAR I

INMT3039
INTERNATIONAL BUSINESS MGMT
Credits (Min/Max): 3/3

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.

INMT3049
INT'L MKT & EXPORT MGMT (MRKT3049)
Credits (Min/Max): 3/3

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 MRKT3049*

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

INMT4040
TOPICS AND ISSUES IN INTERNATIONAL MANAGEMENT
Credits (Min/Max): 3/3

This course will provide an in-depth examination of selected topics and issues in the field of international management.

INMT4046
INTERNATIONAL FINANCE
Credits (Min/Max): 3/3

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: FINC3032 - FINANCIAL MANAGEMENT

INMT4048

INTERNATIONAL LEGAL ENVIRONMENT (INST4048)

Credits (Min/Max): 3/3

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 INST4048*

INMT4051

INTERNATIONAL MANAGEMENT INTERNSHIP I

Credits (Min/Max): 3/6

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.

INMT4052

INTERNATIONAL MANAGEMENT INTERNSHIP II

Credits (Min/Max): 3/3

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.

INMT4057

INTERNATIONAL MGMT-INDEPENDENT STUDY

Credits (Min/Max): 3/3

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.

INST2001

GLOBAL POLITICS(POLI2001)

Credits (Min/Max): 3/3

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 POLI2001*

INST2011

WORLD GEOGRAPHY(GEOG2011)

Credits (Min/Max): 3/3

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 GEOG2011*

INST3001

INTERNATL ORG & THE LEGAL FRAMEWORK OF INTERNATL AFFAIRS

Credits (Min/Max): 3/3

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.

INST3003

INT'L POLITICAL ECONOMY (ADMG3003)

Credits (Min/Max): 3/3

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 ADMG3003*

INST3010

CULTURAL GEOGRAPHY AND THE HUMAN MOSAIC(GEOG3010)

Credits (Min/Max): 3/3

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 GEOG3010*

INST3011

RESEARCH METHODS(SOCL3011)

Credits (Min/Max): 3/3

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. *Cross-listed with SOCL3011*

INST3013
GEOGRAPHY & WORLD AFFAIRS (GEOG3013)
Credits (Min/Max): 3/3

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 GEOG3013*

INST3018
HISTORY & POLITICS OF AFRICA (HIST/POLI3018)
Credits (Min/Max): 3/3

In this course we investigate the origins of pre-colonial African civilizations; analyze the spread of global trade within and beyond Africa; explore the colonial period in terms of British, French and Portuguese empire-building; and examine resistance to colonialism, the independence movements, and post-colonial (contemporary) politics in Africa. *Cross-listed with HS/PS 318*

INST3021
COMPARATIVE GOVERNMENT (POLI3021)
Credits (Min/Max): 3/3

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 POLI3021*

INST3023
MODERN U.S. DIPLOMATIC HISTORY (HIST/POLI3023)
Credits (Min/Max): 3/3

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 HIST/POLI3023*

INST3025
DEVELOPMENT: POLITICAL, SOCIAL & ECONOMIC ISSUES (POLI3025)
Credits (Min/Max): 3/3

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 POLI3025*

INST3027
HISTORY OF MODERN EUROPE (HIST3027)
Credits (Min/Max): 3/3

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. *Cross-listed with HIST3027*

INST3028
EAST ASIAN HISTORY (HIST3028)
Credits (Min/Max): 3/3

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 HIST3028*

INST3033
AMERICAN FOREIGN POLICY (POLI3033)
Credits (Min/Max): 3/3

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 POLI3033*

INST4048
INTERNATIONAL LEGAL ENVIRONMENT (INMT4048)
Credits (Min/Max): 3/3

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 INMT4048*

INST4051
INTERNSHIP-INTERNATIONAL STUDIES
Credits (Min/Max): 1/6

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.

INST4052
INTERNSHIP IN INTERNATIONAL STUDIES II
Credits (Min/Max): 3/3

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.

INST4055
SENIOR SEMINAR IN INTERNATIONAL STUDIES
Credits (Min/Max): 3/3

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.

INST4057
INTERNATIONAL STUDIES- INDEPENDENT STUDY
Credits (Min/Max): 3/3

Students work independently with a faculty member on a topic of relevant interest to the advanced student pursuing a major in International Affairs.

ISTC1005
PRACTICAL COMPUTER APPLICATIONS
Credits (Min/Max): 3/3

This course provides the student with hands-on use of personal computers and Microsoft Office 2007. Email etiquette 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.

ISTC1006
ADVANCED PRACTICAL COMPUTER APPLICATIONS
Credits (Min/Max): 3/3

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.

ISTC1021
PROBLEM SOLVING
Credits (Min/Max): 3/3

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.

ISTC1025
COMPUTER HARDWARE
Credits (Min/Max): 3/3

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.

ISTC2005
IT: A GLOBAL PERSPECTIVE
Credits (Min/Max): 3/3

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.

ISTC2008
INTRO TO CYBERSPACE
Credits (Min/Max): 3/3

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.

ISTC2021
MGMT OF INFORMATION SYSTEMS
Credits (Min/Max): 3/3

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.

ISTC2025
COMPUTER-BASED TRAINING & DL
Credits (Min/Max): 3/3

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.

ISTC2030
NETWORKING
Credits (Min/Max): 3/3

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.

ISTC2045
DATA BASE MANAGEMENT SYSTEMS
Credits (Min/Max): 3/3

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.

ISTC2050
DISTRIBUTED DATA PROCESSING
Credits (Min/Max): 3/3

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.

ISTC3000
ADVANCED COMPUTER HARDWARE
Credits (Min/Max): 3/3

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.

ISTC3005
LEGAL ISSUES & INFO TECH
Credits (Min/Max): 3/3

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.

ISTC3008
WEB PAGE USABILITY & PROGRAMMING
Credits (Min/Max): 3/3

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.

ISTC3010
IT SERVICES ADMINISTRATION
Credits (Min/Max): 3/3

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.

ISTC3015
HUMAN-COMPUTER INTERACTION
Credits (Min/Max): 3/3

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.

ISTC3020
COMPUTER PROGRAMMING:COBOL
Credits (Min/Max): 3/3

This course introduces the student to computer programming using the COBOL (Common Business Oriented Language) programming language. The conventions of the language, its applications and applications-related advantages and disadvantages are presented. The course develops the student's proficiency in understanding and applying the problem-solving logic, methods and procedures of programming in this language, and of programming in general. This course is appropriate for all potential users of computers in business-related fields of study.

ISTC3028
SCRIPTING FOR THE WEB I
Credits (Min/Max): 3/3

An introduction to content the student needs to create effective and interactive Web sites. Discover the integration of Web authoring tools and XHTML, HTML, Cascading Style Sheets (CSS) and web site design best practices to promote a successful site. This course will use the latest scripting language for websites. Revisit topics of ISTC2008 Intro to Cyberspace and introduce more advanced techniques involving hyperlinks, embedded objects, and multimedia activity in the web site.

ISTC3030
LINUX
Credits (Min/Max): 3/3

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.

ISTC3031
ADVANCED NETWORKING & TELECOM
Credits (Min/Max): 3/3

This course builds on the foundation knowledge of ISTC2030 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.

ISTC3034
PROGRAMMING IN JAVA
Credits (Min/Max): 3/3

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).

ISTC3046
ADV DATA BASE MGMT SYSTEMS
Credits (Min/Max): 3/3

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.

ISTC4042
SYSTEMS ANALYSIS & DESIGN
Credits (Min/Max): 3/3

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.

ISTC4051
INFORMATION SYSTEMS TECNOLOGY INTERNSHIP
Credits (Min/Max): 1/6

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.

ISTC4055
SENIOR SEMINAR
Credits (Min/Max): 3/3

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.

LEAD3001
DYNAMICS OF TEAMS
Credits (Min/Max): 3/3

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.

LEAD3051
INFORMATION LITERACY
Credits (Min/Max): 3/3

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.

LEAD3056
MANAGEMENT & FINANCIAL ANALYSIS
Credits (Min/Max): 6/6

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.

LEAD3061
MACRO-ORGANIZATIONAL BEHAVIOR
Credits (Min/Max): 3/3

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.

LEAD4001
LEADERSHIP & ETHICS
Credits (Min/Max): 3/3

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.

LEAD4021
COMMUNICATING CHANGE
Credits (Min/Max): 3/3

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.

LEAD4031
HR CONCEPTS & NEGOTIATIONS
Credits (Min/Max): 3/3

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.

LEAD4056
GLOBAL THINKING & E-COMMERCE
Credits (Min/Max): 3/3

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.

LEAD4061
CAPSTONE PROJECT
Credits (Min/Max): 3/3

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.

LRCX1001
LRX:INTRO & HISTORY
Credits (Min/Max): 1/1

LRC101 is the first course of a sequence of four which will introduce new students to the academic experience of four-year colleges in general and La Roche College in particular. Academically, the course will help prepare freshman for collegiate level course work, for career development, and for service through their respective disciplines. It will introduce students to the history and heritage of the entire college community that they have now joined and map out their journey through the LRC experience

LRCX1001V
LRX: INTRO & HISTORY-VIRTUAL (LRCX1001)
Credits (Min/Max): 0/0

LRC101V is the first course of a sequence of four which will introduce new students to the academic experience of four-year colleges in general and La Roche College in particular. Academically, the course will help prepare freshman for collegiate level course work, for career development, and for service through their respective disciplines. It will introduce students to the history and heritage of the entire college community that they have now joined and map out their journey through the LRC experience.

LRCX1002
LRX:DIVERSITY & DISCRIMINATION
Credits (Min/Max): 1/1

LRCX1002 is the second course of a sequence of four in the LRC Experience. Its focus is on Diversity and Discrimination. Course work to be completed through a series of film & text. Information will be supplied through your La Roche e-mail.

LRCX2001
LRX:REGIONS OF CONFLICT
Credits (Min/Max): 1/1

This third course will focus on Regions of Contemporary Conflict. The geographic focus will be the Sudan with a particular emphasis on Darfur.

LRCX2002
LRX:ECONOMIC JUSTICE
Credits (Min/Max): 1/1

The La Roche Experience aims to provide students with the opportunity to experience and share the spirit, mission, and rich heritage of the Sisters of Divine Providence. The congregation of Divine Providence, founded in 1851, is an international community of vowed women and associates who seek to make God's Providence visible by responding to the needs of the time and co-creating a world of compassion, justice and peace. Building on the service learning opportunities, simulation exercises, and opportunities for theological and spiritual experience of LRCX1001, the learning objective of LRCX2002 is to allow students to continue to build a common pool of metaphors through their participation in reading and discussing common texts and reflecting upon media experiences with particular emphasis on economic justice and environmental sustainability.

MATH0010
BASIC MATHEMATICS I++
Credits (Min/Max): 3/3

A course designed to meet the needs of students demonstrating deficiencies in basic mathematics skills. The course includes a review of the basic operations involving whole numbers, fractions, decimals, percentages, ratio and proportion. Emphasis is placed on problem solving. **Course does not apply toward college graduation credit requirements.**

MATH0015
BEGINNING ALGEBRA++
Credits (Min/Max): 3/3

This course is intended for students studying algebra for the first time and for those who need a review of basic algebra before taking college algebra. The topics to be covered are the basic properties of real numbers, equations and inequalities, graphing of equations and inequalities, polynomials and factoring of polynomials, proportions and rational expressions, systems of equations, roots and radical expressions, and quadratic equations and their graphs. Upon successful completion of this course, students are strongly urged to fulfill their remaining mathematics requirement(s) without delay (strike while the iron of your knowledge is piping hot). **Course does not apply toward college graduation credit requirements.**

MATH1010
COLLEGE ALGEBRA
Credits (Min/Max): 3/3

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.

MATH1010A
COLLEGE ALGEBRA
Credits (Min/Max): 3/3

This is a special section of MATH1010 designed for the student who has never had a prior course in algebra and for the student whose knowledge of elementary algebra is fragmentary. This section will cover the basic material of the MATH1010 course but will also include material normally covered in introductory high school algebra. This is accomplished by adding an extra hour of instruction per week (at no extra cost to the student). The extra hour will permit review of operations with signed numbers, polynomials, factoring, algebraic functions, and linear and quadratic equations. The course will then proceed to rational expressions, exponents, radicals, logarithms, conic sections, systems of equations, determinants, the binomial theorem and mathematical induction. Though this section will meet 4 hours per week, the student will only receive 3 credit hours. However, all 3 credits will count towards graduation since the class covers the same basic material as MATH1010. ♦♦♦#

MATH1014
DISCRETE MATHEMATICS I
Credits (Min/Max): 3/3

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*

MATH1016
PRE-CALCULUS
Credits (Min/Max): 3/3

This is a transition course from algebra and trigonometry to, and may serve, therefore, as a preparation for, calculus. The topics covered include functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry, polar coordinates and vectors, and the conic sections.

MATH1023
COLLEGE TRIGONOMETRY
Credits (Min/Max): 3/3

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: MATH1010 - COLLEGE ALGEBRA

MATH1029
PRE CALCULUS
Credits (Min/Max): 3/3

This is a transition course from algebra and trigonometry to, and may serve, therefore, as a preparation for, calculus. The topics covered include functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry, polar coordinates and vectors, and the conic sections.

MATH1030
CALCULUS FOR BUSINESS, ECONOMICS & MGMT SCIENCES
Credits (Min/Max): 3/3

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: MATH1010 - COLLEGE ALGEBRA

MATH1032
ANALYTIC GEOMETRY & CALCULUS I
Credits (Min/Max): 4/4

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: MATH1010 - COLLEGE ALGEBRA

MATH1033
ANALYTIC GEOMETRY & CALCULUS II
Credits (Min/Max): 4/4

A continuation of MATH1032 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: MATH1032 - ANALYTIC GEOMETRY & CALCULUS I

MATH1040
PROBABILITY & STATISTICS
Credits (Min/Max): 3/3

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: MATH1010 - COLLEGE ALGEBRA

MATH1040H
PROBABILITY & STATISTICS-HONORS
Credits (Min/Max): 3/3

An intensive one semester 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 estimations, confidence intervals, hypothesis testing, analysis of variance, regression, correlation and the method of least squares will also be examined.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

MATH2000
MATHEMATICS FOR LIBERAL ARTS
Credits (Min/Max): 3/3

As in-depth exploration of the applications of various types of mathematics, with an emphasis on problem solving skills. Writing skills are an integral part of this course. The connecting of mathematical ideas with other subject areas will be emphasized. These areas will include: art, biology, chemistry, coding, computers, demographics, fiction, genetics, logic, management, marketing, music, philosophy, physics, politics, psychology, and social planning. The discussion of original source documents will be an integral part of this course.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

MATH2004
DISCRETE MATHEMATICS II
Credits (Min/Max): 3/3

A continuation of MATH1014. 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.

MATH2006
ANALYTIC THINKING & PROBLEM SOLVING
Credits (Min/Max): 3/3

This course develops the student's ability to critically analyze and solve problems, analogies, and word problems. A variety of problem solving techniques and tools are presented, such as charts and diagrams, flow charts, decision tables, and algorithms. Through the use of non-traditional exercises, a combination of techniques will lead to solutions. NOTE: This course may not be used to satisfy the mathematics requirements. Core Course.

MATH2011
ANALYTICAL GEOMETRY&CALCULUS I
Credits (Min/Max): 4/4

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.

MATH2012
ANALYTICAL GEOMETRY&CALCULUS II
Credits (Min/Max): 4/4

A continuation of MATH1032 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.

MATH2014
CALCULUS FOR BUSINESS,ECONOMICS AND MANAGERIAL SCIENCES
Credits (Min/Max): 3/3

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.

MATH2020
ELEMENTARY NUMBER THEORY
Credits (Min/Max): 3/3

A study of the properties of integers, the fundamental theorem of arithmetic, congruences, linear diophantine equations, quadratic residues and continued fractions.

MATH2022
LINEAR ALGEBRA

Credits (Min/Max): 3/3

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.

**MATH2024
INTRODUCTION TO PROBAB & STATS
Credits (Min/Max): 3/3**

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.

**MATH2025
STATISTICS II: TOPICS IN STATS
Credits (Min/Max): 3/3**

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.

**MATH2030
ANALYTIC GEOMETRY & CALC III
Credits (Min/Max): 4/4**

A continuation of MATH1033 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: MATH1033 - ANALYTIC GEOMETRY & CALCULUS II

**MATH2031
ORDINARY DIFFERENTIAL EQUATIONS
Credits (Min/Max): 3/3**

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: MATH2030 - ANALYTIC GEOMETRY & CALC III

**MATH2032
NUMERICAL METHODS II
Credits (Min/Max): 3/3**

Second semester of a survey course in numerical techniques for the numerical solution of a variety of mathematical problems with an emphasis on application as opposed to theory. Topics to be covered include: initial-value problems, partial differential equations, curve fitting and approximation of functions.

**MATH2045
HISTORY OF MATHEMATICS
Credits (Min/Max): 3/3**

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.

**MATH2050
DISCRETE MATHEMATICS I
Credits (Min/Max): 3/3**

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.

PreRequisites: MATH1032 - ANALYTIC GEOMETRY & CALCULUS I

**MATH2051
DISCRETE MATHEMATICS II
Credits (Min/Max): 3/3**

A continuation of MATH1014. 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.

PreRequisites: MATH2050 - DISCRETE MATHEMATICS I

**MATH2070
FINITE MATHEMATICS
Credits (Min/Max): 3/3**

A survey of non-calculus mathematics that provides the solid foundation needed by students in business, social sciences, and non-science courses. Topics covered include linear functions, matrix linear programming, probability and statistics, mathematics of finance, Markov chains and decision theory.

MATH3010
ELEMENTARY NUMBER THEORY
Credits (Min/Max): 3/3

A study of the properties of integers, the fundamental theorem of arithmetic, congruences, linear diophantine equations, quadratic residues and continued fractions.

MATH3015
LINEAR ALGEBRA
Credits (Min/Max): 3/3

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.

MATH3021
ANALYTICAL GEOMETRY&CALC III
Credits (Min/Max): 4/4

A continuation of MATH1033 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.

MATH3023
MODERN ABSTRACT ALGEBRA
Credits (Min/Max): 3/3

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.

MATH3024
COMPLEX VARIABLES
Credits (Min/Max): 3/3

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.

MATH3032
ORDINARY DIFFERENTIAL EQUATIONS
Credits (Min/Max): 3/3

A study of first and second order differential equations, infinite series, Laplace transforms and power series together with existence of solution and uniqueness theorems.

MATH3035
COMPLEX ANALYSIS
Credits (Min/Max): 3/3

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.

MATH3040
PROBABILITY & STATISTICS I
Credits (Min/Max): 3/3

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.

MATH3045
PROBABILITY & STATISTICS II
Credits (Min/Max): 3/3

A detailed study of topics in statistics: comparison of classical and Bayesian methods in conditional probability and estimation of parameters, 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.

MATH4003
HISTORY OF MATHEMATICS
Credits (Min/Max): 3/3

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: MATH2031 - ORDINARY DIFFERENTIAL EQUATIONS

MATH4010
INTRODUCTION TO ANALYSIS
Credits (Min/Max): 3/3

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.

MATH4015
MODERN ABSTRACT ALGEBRA
Credits (Min/Max): 3/3

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.

MATH4020
GEOMETRY
Credits (Min/Max): 3/3

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.

MATH4035
REAL ANALYSIS
Credits (Min/Max): 3/3

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: MATH2031 - ORDINARY DIFFERENTIAL EQUATIONS

MATH4045
DATA REDUCTION & ERROR ANALYSIS FOR THE PHYSICAL SCIENCES
Credits (Min/Max): 3/3

A first course in data reduction and error analysis with emphasis placed more upon hands-on experience than upon theory. Topics covered will include: sample statistics; the Binomial, Poisson, Gaussian and Lorentzian distributions; analysis of the propagation of errors; linear and nonlinear least squares; multiple regression and data manipulation techniques. Students will be expected to perform analyses using commercially available software and software of their own composition.

MATH4051
MATH INTERNSHIP
Credits (Min/Max): 3/3

A practical experience in a field setting.

MATH4056
RESEARCH IN MATHEMATICS
Credits (Min/Max): 2/4

An individual investigation in the student's field of interest carried out under the supervision of a faculty member. The student is responsible for defining a problem, planning a course of investigation, and reporting higher results in a scientific paper.

MATH4057
MATHEMATICS-INDEPENDENT STUDY
Credits (Min/Max): 1/4

Independent study is an accelerated program for superior students in the division of natural and mathematical sciences. It is intended to allow a student to pursue studies in advanced topics. The student designs an independent study in conjunction with a divisional faculty member. To be eligible for independent study the student must comply with all appropriate college policies.

MATH4058
SPECIAL PROBLEMS IN MATHEMATICS
Credits (Min/Max): 3/3

This course is designed for those students who desire work not offered in the regular advanced courses in mathematics and who wish to work on an individual project under the supervision of a mathematics instructor.

MATH4090
JR/SR SEMINAR IN MATHEMATICS
Credits (Min/Max): 1/1

The seminar offers two aspects, one somewhat theoretical and the other applied. They are, respectively, an introduction to actuarial mathematics and a preparation for the Exam P Probability, which is first of four preliminary examination of Society of Actuaries.

PreRequisites: MATH2031 - ORDINARY DIFFERENTIAL EQUATIONS

MATH4094
SPECIAL PROBLEMS IN MATHEMATICS
Credits (Min/Max): 3/3

An individual investigation in the student's field of interest carried out under the supervision of a faculty member. The student is responsible for defining a problem, planning a course of investigation, and reporting higher results in a scientific paper.

MLAR1001
ELEMENTARY ARABIC I
Credits (Min/Max): 4/4

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in the beginning Arabic. The goal of the course is the acquisition of a useful, communicative command of language at the Novice-Low to Novice-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 (conversing with an exchange student, completing forms, etc.) and the exploration of cultural subtleties conveyed by language, thought and customs.

MLAR1002
ELEMENTARY ARABIC II
Credits (Min/Max): 4/4

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in the beginning Arabic. The goal of the course is the acquisition of a useful, communicative command of language at the Novice-Low to Novice-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 (conversing with an exchange student, completing forms, etc.) and the exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLAR1001 - ELEMENTARY ARABIC I

MLAR2001
INTERMEDIATE ARABIC I
Credits (Min/Max): 3/3

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in beginning Arabic. The goal of this course is the acquisition of a useful, communicative command of the language at the Novice-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 (conversing with an exchange student, completing forms, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLAR1002 - ELEMENTARY ARABIC II

MLAR2002
INTERMEDIATE ARABIC II
Credits (Min/Max): 3/3

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in beginning Arabic. The goal of this course is the acquisition of a useful, communicative command of the language at the Novice-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 (conversing with an exchange student, completing forms, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

MLAR3001
ARABIC LANGUAGE & CULTURE I
Credits (Min/Max): 3/3

As a continuation of Intermediate Arabic II, 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 Arabic. The goal of the course is the acquisition of a communicative and accurate command of the language at the Intermediate Low to Intermediate Mid level on the national scale of language proficiency as established by the American Council on the Teaching of Foreign Languages (ACTFL). The course will enrich the students' vocabulary, grammar, writing and reading skills, as well as enable them to understand and converse accurately in Arabic. Basic texts help students connect the written and aural/oral aspects of Arabic through intensive reading that is focused on grammar and Pronunciation. Students develop skills in writing at the paragraph level, translation, correct expression, and dictionary use.

PreRequisites: MLAR2002 - INTERMEDIATE ARABIC II

MLAR3002
ADVANCED ARABIC II
Credits (Min/Max): 3/3

As a continuation of Arabic Language & Culture I, this course is a part of a proficiency-based program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in Arabic. The goal of the course is the acquisition of a communicative and accurate command of the language at the Intermediate Low to Intermediate Mid level on the national scale of language proficiency as established by the American Council on the Teaching of Foreign Languages (ACTFL). The course will enrich the students' vocabulary, grammar, writing and reading skills, as well as enable them to understand and converse accurately in Arabic. Basic texts help students connect the written and aural/oral aspects of Arabic, through intensive reading that is focused on grammar and pronunciation. Students develop skills in writing at the paragraph level, translation, correct expression, and dictionary use.

MLED2000
ENGLISH LANGUAGE LEARNERS IN THE MULTICULTURAL CLASSROOM
Credits (Min/Max): 3/3

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.

MLED2005
STRUCTURES OF ENGLISH
Credits (Min/Max): 3/3

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.

MLED2010
LANGUAGE LEARNING & INSTRUCTION
Credits (Min/Max): 3/3

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.

MLED3000
METHODS OF TEACHING & EVALUATING ENGLISH AS A SECOND LANGUAGE
Credits (Min/Max): 3/3

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.

MLED3002
METHODS OF TEACHING & EVALUATING ENGLISH LANGUAGE LEARNERS
Credits (Min/Max): 3/3

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.

MLED3005
CURRICULUM & MATERIALS DEVELOPMENT FOR ENGLISH LANGUAGE LEARNERS
Credits (Min/Max): 3/3

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.

MLED3010
METHODS OF TEACHING AND EVALUATING FOREIGN LANGUAGE ED
Credits (Min/Max): 3/3

This course will focus on the teaching of foreign languages. A variety of teaching models and strategies for organizing the classroom will be explored. Emphasis will be placed on formulating objectives, selecting and organizing content, and developing various strategies to implement in a proficiency-based program. Techniques for evaluation of teaching effectiveness as well as evaluation of student learning will be discussed.

MLED3015
FIELD PLACEMENT/PRACTICUM TESOL
Credits (Min/Max): 1/1

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.

MLED3080
CURRICULUM & MATERIALS DEVELOPMENT FOR FOREIGN LANGUAGES
Credits (Min/Max): 3/3

This course is designed to provide the needed skills for foreign language instruction. Focus will be on developing, implementing, and evaluating instructional strategies and materials for both the elementary and secondary levels. In addition prospective foreign language teachers will learn to plan and assess appropriate learning activities for their students, and to reflect on their own learning strategies and behavior.

MLFR1001
ELEMENTARY FRENCH I
Credits (Min/Max): 4/4

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.

MLFR1002
ELEMENTARY FRENCH II
Credits (Min/Max): 4/4

As a continuation of Elementary French I, 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 a Novice Mid 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 input (oral and visual), active oral and written practice of real-life language tasks or functions (e.e., conversing with an exchange student, making grocery lists, completing forms, etc.), and exploration of cultural subtleties conveyed by language, thought, and customs.

PreRequisites: MLFR1001 - ELEMENTARY FRENCH I

MLFR2001
INTERMEDIATE FRENCH I
Credits (Min/Max): 3/3

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: MLFR1002 - ELEMENTARY FRENCH II

MLFR2002
INTERMEDIATE FRENCH II
Credits (Min/Max): 3/3

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: MLFR2001 - INTERMEDIATE FRENCH I

MLFR3001
ADVANCED FRENCH LANGUAGE & CULTURE I
Credits (Min/Max): 3/3

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.

MLFR3002
ADVANCED FRENCH LANGUAGE & CULTURE II
Credits (Min/Max): 3/3

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.

MLFR3005
FRENCH CIVILIZATION
Credits (Min/Max): 3/3

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

MLFR4057
RESEARCH IN FRENCH STUDIES
Credits (Min/Max): 1/6

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.

MLIT1001
ELEMENTARY ITALIAN I
Credits (Min/Max): 4/4

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in the beginning Italian. The goal of the course is the acquisition of a useful, communicative command of language at the Novice-Low to Novice-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 (conversing with an exchange student, completing forms, etc.) and the exploration of cultural subtleties conveyed by language, thought and customs.

MLIT1002
ELEMENTARY ITALIAN II
Credits (Min/Max): 4/4

As a continuation of Elementary Italian I, 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 Italian.

The goal of the course is the acquisitions of a useful, communicative command of the language at a Novice Mid 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 input (oral and visual), active oral and written practice of real-life language tasks or functions (i.e., conversing with an exchange student, making grocery lists, completing forms, etc.), and exploration of cultural subtleties conveyed by language, thought, and customs.

MLIT2001
INTERMEDIATE ITALIAN I
Credits (Min/Max): 3/3

As a continuation of Elementary Italian II, 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 Italian.

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.

MLSP1001
ELEMENTARY SPANISH I
Credits (Min/Max): 4/4

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.

MLSP1002
ELEMENTARY SPANISH II
Credits (Min/Max): 4/4

As a continuation of Elementary Spanish I, 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 a Novice Mid 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 input (oral and visual), active oral and written practice of real-life language tasks or functions (e.e., conversing with an exchange student, making grocery lists, completing forms, etc.), and exploration of cultural subtleties conveyed by language, thought, and customs.

PreRequisites: MLSP1001 - ELEMENTARY SPANISH I

MLSP2001
INTERMEDIATE SPANISH I
Credits (Min/Max): 3/3

As a continuation of Elementary Spanish II, 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: MLSP1002 - ELEMENTARY SPANISH II

MLSP2002
INTERMEDIATE SPANISH II
Credits (Min/Max): 3/3

As a continuation of Intermediate Spanish I, 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.

PreRequisites: MLSP2001 - INTERMEDIATE SPANISH I

MLSP3001
ADVANCED SPANISH LANGUAGE & CULTURE I
Credits (Min/Max): 3/3

As a continuation of Intermediate Spanish II, 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: MLSP2002 - INTERMEDIATE SPANISH II

MLSP3002
ADVANCED SPANISH LANGUAGE & CULTURE II
Credits (Min/Max): 3/3

As a continuation of Advanced Spanish Language & Culture I, 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 or functions (e.g. giving suggestions, making plans for the future, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLSP2002 - INTERMEDIATE SPANISH II

MLSP3005
ADVANCED SPANISH GRAMMAR & COMPOSITION
Credits (Min/Max): 3/3

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.

MLSP3010
ADVANCED SPANISH CONVERSATION
Credits (Min/Max): 3/3

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 Spanish 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.

MLSP3015
APPLIED HISPANIC LINGUISTICS
Credits (Min/Max): 3/3

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.

MLSP3020
SPANISH CULTURE
Credits (Min/Max): 3/3

This course will introduce the student to the study of peninsular Spanish culture. Students will study the early cultures which contributed to Spanish culture as it exists today. Also included is the study of historical influences, geography, economics, membership in the European Union (EU), religion(s), political system, art, literature, dance, music, architecture, traditions, customs, languages/dialects and other cultural symbols and trends in the various regions of the country. This course will be conducted in Spanish to assist students in achieving and maintaining their proficiency goals.

MLSP3025
LATIN AMERICAN CULTURE
Credits (Min/Max): 3/3

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.

MLSP3030
SURVEY OF SPANISH LITERATURE
Credits (Min/Max): 3/3

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.

MLSP4057
SPANISH LANGUAGE-INDEPENDENT STUDY
Credits (Min/Max): 1/3

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.

MRKT2007
ADVERTISING & P.R.(ADMG2007)
Credits (Min/Max): 3/3

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 ADMG2007*

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

MRKT2021
MARKETING MANAGEMENT(ADMG2021)
Credits (Min/Max): 3/3

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 ADMG2021*

MRKT3012
BUYER BEHAVIOR
Credits (Min/Max): 3/3

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: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

MRKT3016
PERSONAL SELLING
Credits (Min/Max): 3/3

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: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

MRKT3031
SPORTS & ENTERTAINMENT MARKETING
Credits (Min/Max): 3/3

Sports and Entertainment Marketing may be thought of as the specific application of marketing principles and processes to sports and entertainment. This course examines the complex and diverse nature of sports and entertainment marketing. A framework will be presented to help explain and organize the strategic sports and entertainment marketing process as well as the current structure of the sports and entertainment industry. Specific topics addressed include: understanding spectators, participants, and sponsors, sports marketing branding, women in sports, international sports marketing, and the emerging industry entertainment trends in music and motion pictures, sponsorship programs, ticket pricing and pricing models, stadium economics, and franchising as a distribution tool.

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

MRKT3033
MARKETING RESEARCH
Credits (Min/Max): 3/3

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: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

MRKT3049
INT'L MKT & EXPORT MGMT (INMT3049)
Credits (Min/Max): 3/3

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 INMT3049*

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

MRKT3050
INTERNET MARKETING
Credits (Min/Max): 3/3

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: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

MRKT4001
MARKETING FOR NONPROFITS
Credits (Min/Max): 3/3

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

MRKT4014
MARKETING STRATEGY
Credits (Min/Max): 3/3

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: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

MRKT4016
BRAND MANAGEMENT
Credits (Min/Max): 3/3

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.

MRKT4018
SERVICES MARKETING
Credits (Min/Max): 3/3

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.

MRKT4019
SPORT ADMINISTRATION & MGMT (ADMG4019)
Credits (Min/Max): 3/3

This course will provide a comprehensive, current and concise introduction to sports management and administration principles and practices. Functional overviews of industry skills are presented and exposure to organizational theory, law and sports governance, facilities and venues, sports marketing, ethical applications, broadcasting, sales, event management, agency, advertising, sponsorship, international sport, collegiate and amateur sport will be addressed in detail.

MRKT4031
CONTEMPORARY CONCEPTS IN MARKETING
Credits (Min/Max): 3/3

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: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

MRKT4035
RETAIL MARKETING & MANAGEMENT
Credits (Min/Max): 3/3

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.

MRKT4046
SALES MANAGEMENT
Credits (Min/Max): 3/3

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.

MRKT4051
MARKETING INTERNSHIP
Credits (Min/Max): 1/6

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.

NADM5000
HEALTH CARE FINANCE
Credits (Min/Max): 3/3

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.

NADM5017
NURSING ADMINISTRATION I
Credits (Min/Max): 3/3

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.

NADM5020
NURSING ADMINISTRATION II
Credits (Min/Max): 3/3

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.

PreRequisites: NADM5000 - HEALTH CARE FINANCE

NADM5025
NURSING ADMINISTRATION II: SEMINAR & PRACTICUM
Credits (Min/Max): 3/3

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.

PreRequisites: NADM5000 - HEALTH CARE FINANCE

NADM6000
NURSING ADMINISTRATION III
Credits (Min/Max): 3/3

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.

PreRequisites: NADM5020 - NURSING ADMINISTRATION II

NADM6025
NURSING ADMINISTRATION III: SEMINAR & PRACTICUM

Credits (Min/Max): 3/3

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.

PreRequisites: NADM5020 - NURSING ADMINISTRATION II

NEDG5000

ASSESSMENT, MEASUREMENT & EVALUATION OF LEARNERS

Credits (Min/Max): 3/3

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.

PreRequisites: NEDG5004 - CURRICULUM DESIGN I:DEVELOPMENT OF CURRICULUM

NEDG5002

TEACHING & LEARNING:STRATEGIES FOR THE CLASSROOM & CLINICAL NURSING EDUCATION

Credits (Min/Max): 3/3

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.

PreRequisites: NEDG5004 - CURRICULUM DESIGN I:DEVELOPMENT OF CURRICULUM

NEDG5004

CURRICULUM DESIGN I:DEVELOPMENT OF CURRICULUM

Credits (Min/Max): 3/3

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.

NEDG5006

CURRICULUM DESIGN II:EVALUATION & REVISION OF CURRICULUM

Credits (Min/Max): 3/3

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.

PreRequisites: NEDG5004 - CURRICULUM DESIGN I:DEVELOPMENT OF CURRICULUM

NEDG5008

NURSING EDUCATION TEACHING PRACTICUM

Credits (Min/Max): 4/4

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.

PreRequisites: NEDG5004 - CURRICULUM DESIGN I:DEVELOPMENT OF CURRICULUM

NSCI1001

THE NATURAL SCIENCES(SLSC1010)

Credits (Min/Max): 3/3

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.

NSCI1010

SCIENCE OF NUTRITION I

Credits (Min/Max): 3/3

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.

NSCI1025

NORMAL & CLINICAL NUTRITION

Credits (Min/Max): 3/3

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.ce.

NSCI2005
KINESIOLOGY
Credits (Min/Max): 3/3

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.

NSCS2011
INTELLIGENCE ANALYSIS & PRESENTATION TECHNIQUES (CRIM2011)
Credits (Min/Max): 3/3

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 CRIM2011*

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

NSCS3010
BUSINESS INTELLIGENCE
Credits (Min/Max): 3/3

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.

NSCS3011
RESEARCH METHODS FOR ANALYSTS
Credits (Min/Max): 3/3

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.

PreRequisites: NSCS3010 - BUSINESS INTELLIGENCE

NSCS4005
NATIONAL SECURITY & INTELLIGENCE -SENIOR SEMINAR
Credits (Min/Max): 3/3

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: NSCS2011 - INTELLIGENCE ANALYSIS & PRESENTATION TECHNIQUES (CRIM2011)

NURG5002
NURSING THEORY & RESEARCH
Credits (Min/Max): 4/4

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.

NURG5013
ROLE DEVELOPMENT OF THE NURSE ADMINISTRATOR & NURSE EDUCATOR
Credits (Min/Max): 2/2

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.

NURG5020
HEALTH POLICY
Credits (Min/Max): 3/3

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.

NURG5033
NURSING INFORMATICS IN NURSING ADMINISTRATION & NURSING ED
Credits (Min/Max): 3/3

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.

NURG5035
HUMAN DIVERSITY & SOCIAL ISSUES IN NURSING ADMINISTRATION & NURSING EDUCATION
Credits (Min/Max): 3/3

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.

NURG6000
CAPSTONE RESEARCH EXPERIENCE
Credits (Min/Max): 3/3

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: NURG5002 - NURSING THEORY & RESEARCH

NURU1000
INTRODUCTION TO NURSING
Credits (Min/Max): 3/3

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.

NURU1005
FOUNDATIONS OF CLINICAL NURSING
Credits (Min/Max): 0/0

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.

NURU1005A
FOUNDATIONS OF CLINICAL NURSING- CLINICAL
Credits (Min/Max): 0/3

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.

NURU1005B
FOUNDATIONS OF CLINICAL NURSING- CLINICAL
Credits (Min/Max): 0/3

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.

NURU1005C
FOUNDATIONS OF CLINICAL NURSING- CLINICAL
Credits (Min/Max): 0/3

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.

NURU1005L
FOUNDATIONS OF CLINICAL NURSING
Credits (Min/Max): 3/3

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.

NURU2000
MEDICAL SURGICAL NURSING
Credits (Min/Max): 6/6

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: NURU2020 - PHARMACOLOGY FOR NURSING PRACTICE

NURU2000C
MEDICAL SURGICAL NURSING- CLINICAL
Credits (Min/Max): 0/0

Clinical for Medical Surgical Nursing

NURU2000L
MEDICAL SURGICAL NURSING-LAB
Credits (Min/Max): 0/0

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.

NURU2005
LPN to RN TRANSITION COURSE
Credits (Min/Max): 3/3

The licensed practical nurse (LPN) student enters the ASN program as a provider of care practicing within the standards of practice, code of ethics, and state board of nursing regulations for the LPN. This course is designed to assist the LPN to build upon this knowledge as the student makes the transition to the role of the registered nurse (RN). The student will be introduced to the conceptual framework of the ASN program and will explore the professional nursing roles, ANA scope, standards of practice, code of ethics and PA nurse practice act. The nursing process, caring, communication, documentation, and the teaching learning process as practiced by the registered nurse will be explored. Basic assessment skills, medication preparation, administration and IV therapy skills and other fundamental nursing skills will be evaluated.

PreRequisites: NURU2020 - PHARMACOLOGY FOR NURSING PRACTICE

NURU2010
MENTAL HEALTH NURSING
Credits (Min/Max): 4/4

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.

NURU2010C
MENTAL HEALTH NURSING-CLINICAL
Credits (Min/Max): 0/0

Clinical for Mental Health Nursing

NURU2012
CHILDBEARING & WOMEN'S HEALTH NURSING
Credits (Min/Max): 4/4

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.

NURU2012C
CHILDBEARING & WOMEN'S HEALTH NURSING-CLINICAL
Credits (Min/Max): 0/0

Clinical for Childbearing & Women's Health Nursing

NURU2015
NURSING OF CHILDREN
Credits (Min/Max): 4/4

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 will be emphasized in caring for children with acute and chronic health problems in a variety of ambulatory, community, acute, and transitional care settings. The clinical experience is structured to provide students with the opportunity to provide safe, quality

care based on the nursing process to children and families in various pediatric health settings.

NURU2015C
NURSING OF CHILDREN-CLINICAL
Credits (Min/Max): 0/0

Clinical for Nursing of Children

NURU2018
COMMUNITY HEALTH NURSING
Credits (Min/Max): 4/4

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.

NURU2018C
COMMUNITY HEALTH NURSING -CLINICAL
Credits (Min/Max): 0/0

Clinical for Community Health Nursing.

NURU2020
PHARMACOLOGY FOR NURSING PRACTICE
Credits (Min/Max): 2/2

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: NURU2000 - MEDICAL SURGICAL NURSING

NURU2025
HIGH ACUITY
Credits (Min/Max): 6/6

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: NURU2012 - CHILDBEARING & WOMEN'S HEALTH NURSING

NURU2027
A COGNITIVE APPROACH TO CLINICAL REASONING IN NURSING
Credits (Min/Max): 3/3

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

PreRequisites: NURU2012 - CHILDBEARING & WOMEN'S HEALTH NURSING

NURU2030
NURSING LEADERSHIP
Credits (Min/Max): 3/3

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: NURU2012 - CHILDBEARING & WOMEN'S HEALTH NURSING

NURU3020
HEALTH ASSESSMENT IN NSG PRACTICE
Credits (Min/Max): 3/3

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.

NURU3021
LEADERSHIP IN NURSING
Credits (Min/Max): 3/3

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.

NURU3022
HEALTH TEACHING
Credits (Min/Max): 3/3

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.

NURU3023
NURSING RESEARCH I
Credits (Min/Max): 3/3

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.

NURU3024
NURSING DURING ACUTE ILLNESS
Credits (Min/Max): 3/3

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.

NURU3025
NURSING OF THE ADOLESCENT
Credits (Min/Max): 3/3

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.

NURU3025B
NURSING CARE OF THE ADOLESCENT- CLINICAL
Credits (Min/Max): 0/0

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.

NURU3027
MENTAL HEALTH NURSING
Credits (Min/Max): 3/3

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.

NURU3027A
MENTAL HEALTH NURSING
Credits (Min/Max): 3/3

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.

NURU3027B
MENTAL HEALTH NSG-CLINICAL
Credits (Min/Max): 0/0

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.

NURU3028
OVERVIEW OF GERONTOLOGICAL NSG
Credits (Min/Max): 3/3

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.

NURU4012
INTRO TO NURSING INFORMATICS
Credits (Min/Max): 3/3

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.

NURU4020
CURRENT ISSUES IN NSG SEMINAR
Credits (Min/Max): 3/3

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.

NURU4021
COMMUNITY NURSING I
Credits (Min/Max): 3/3

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.

NURU4021A
COMMUNITY NURSING I
Credits (Min/Max): 3/3

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.

NURU4021B
COMMUNITY NURSING I-CLINICAL
Credits (Min/Max): 1/1

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.

NURU4023
NURSING RESEARCH II
Credits (Min/Max): 3/3

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.

NURU4024
HEALING IN NURSING PRACTICE
Credits (Min/Max): 3/3

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.

NURU4026
LEGAL ASPECTS OF NURSING PRACTICE
Credits (Min/Max): 3/3

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.

NURU4027
HEALTH CARE FOR WOMEN

Credits (Min/Max): 3/3

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.

**NURU4029
COMMUNITY NURSING II
Credits (Min/Max): 3/3**

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.

**NURU4030
CHILD HEALTH & THE SCHOOL NURSE
Credits (Min/Max): 4/4**

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.

**NURU4032
NURSE PRACTICE WITH FATALLY ILL
Credits (Min/Max): 3/3**

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.

**NURU4033
CONCEPTS & CONTROVERSIES IN NSG PRACTICE WITH AGED PERSONS
Credits (Min/Max): 3/3**

This course is designed to explore selected concepts and subconcepts out of which surface controversies in nursing practice with older persons and their families. The focus is on the demographic shift, legal-ethical issues and research with older persons. Students will be guided to analyze the concepts as ground for nursing practice and to dialogue decision-making strategies relative to controversies encountered in practice with older persons.

**NURU4035
STRUCTURES INFLUENCING THE FAMILY/NURSE/PHYSICIAN RELATION
Credits (Min/Max): 3/3**

This course is designed to explore a framework of fact, myth, symbol and stereotype that influence the delivery of health care to families. The focus is on the complex web of communication in the interrelationship of family-nurse-physician. Students will be guided to analyze power and authority in the health care work force within the historical context of changing expectations and responsibilities.

**NURU4036
FAMILY HEALTH NURSING
Credits (Min/Max): 3/3**

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.

**NURU4037
HEALTH CARE FOR MEN
Credits (Min/Max): 3/3**

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.

**NURU4040
FOUNDATIONS OF FORENSIC NURSING
Credits (Min/Max): 4/4**

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. The course provides 3 credits of theory and 1 credit of clinical experience (30 hrs.)

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

PART1000
FR PERFORMANCE
Credits (Min/Max): 1/1

This course consists of learning, executing and performing the repertoire of the Dance Program.

PART1001
MUSIC APPRECIATION I(SLAE1007)
Credits (Min/Max): 3/3

An overview of musical eras from the Middle Ages through the 20th Century (Bach, Beethoven and the boys). Various listening activities are geared for the non-musician. *Cross-listed with SLAE1007*

PART1002
MUSIC APPRECIATION II (SLAE1009)
Credits (Min/Max): 3/3

An introduction to jazz for the non-musician. Eras covered include the roots of jazz, blues, ragtime, swing, bop, cool, jazz rock, jazz fusion and current trends. Jazz artists ranging from Louis Armstrong and Ella Fitzgerald to Harry Connick, Jr. and Diana Krall. *Cross-listed with SLAE1009*

PART1004
FR BALLET TECHNIQUE
Credits (Min/Max): 2/3

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.

PART1005
FR CONTEMPORARY/MODERN
Credits (Min/Max): 3/3

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

PART1006
JAZZ-LEVEL ONE
Credits (Min/Max): 2/2

This course is designed to acquaint the student with a beginning level of jazz dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study jazz history through videos and will be required to attend a live dance performance. Students must complete a total of 8 credits in this course.

PART1008
FR POINTE
Credits (Min/Max): 1/1

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.

PART1009
FR POINT/PAS DE DEUX
Credits (Min/Max): 1/1

This course is designed to develop the artist's knowledge of pointe technique through the emphasis of strength, mechanics, artistry, and precision. The artist will work to demonstrate a clear articulation of the ballet vocabulary via the exact articulation of footwork in each movement as it is accomplished at both the barre and in centre practice. This class also designed to develop the artist's understanding of ballet and contemporary partnering. It will work to define the practices and techniques of shared movement and will encourage the artist to explore and examine how their individual body moves in space with another.

PART1010
SO PAS DE DEUX
Credits (Min/Max): 1/1

The student will learn the basic techniques required to perform classical partnering. Techniques will include various styles, lifts, supported pirouettes, and promenades. Contemporary partnering will be studied with respect to jazz and modern.

PART1012
FR VARIATIONS/REPertoire
Credits (Min/Max): 1/1

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.

PART1018
ETHNIC/DUNHAM TECHNIQUE
Credits (Min/Max): 1/1

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

PART1020
FR MEN'S DANCE TECHNIQUE
Credits (Min/Max): 1/1

This class is designed to develop the male 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 process. Male students must complete a total of 8 credits in this course/jury.

PART1022
FUNDAMENTALS OF MUSIC I (SLAE1012)
Credits (Min/Max): 3/3

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. *Cross-listed with SLAE1012*

PART1023
CHORUS
Credits (Min/Max): 1/1

The Choir of La Roche College provides an opportunity for students, faculty and staff to explore and perform group vocal music. Selected repertoire represents a wide variety of styles from the western European and American traditions, with special attention to other world music traditions. The choir presents several major concerts each year and participates in community projects throughout Southwestern Pennsylvania.

PART1024
INDIVIDUAL INSTRUCTION-VOICE
Credits (Min/Max): 1/1

This course consists of individual instruction in voice. The course is designed for both beginner and more advanced students. Private interview will determine level of instruction.

PART1025
INDIVIDUAL INSTRUCT-INSTRUMENT
Credits (Min/Max): 1/1

This course consists of individual instruction on a selected instrument. The course is designed for both beginner and more advanced students. Private interview will determine level of instruction.

PART1036
FR CHARACTER
Credits (Min/Max): 1/1

Character dance steps and national styles used in ballet and modern dance.

PART1050
JAZZ/HIP HOP-DANCE ELECTIVE
Credits (Min/Max): 1/1

This is a one-hour course in the techniques of hip-hop dance.

PART2001
SO PERFORMANCE
Credits (Min/Max): 1/1

This course consists of learning, executing and performing the repertoire of the Dance Program.

PART2004
SO BALLET TECHNIQUE
Credits (Min/Max): 3/3

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.

PART2005
SO CONTEMPORARY/MODERN
Credits (Min/Max): 3/3

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

PART2006
SO JAZZ
Credits (Min/Max): 2/2

This course is designed to acquaint the student with a beginning level of jazz dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study jazz history through videos and will be required to attend a live dance performance. Students must complete a total of 8 credits in this course.

PART2008
SO POINTE
Credits (Min/Max): 1/1

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.

PART2009
SO POINTE/PAS DE DEUX
Credits (Min/Max): 1/1

This course is designed to develop the artist's knowledge of pointe technique through the emphasis of strength, mechanics, artistry, and precision. The artist will work to demonstrate a clear articulation of the ballet vocabulary via the exact articulation of footwork in each movement as it is accomplished at both the barre and in centre practice. This class also designed to develop the artist's understanding of ballet and contemporary partnering. It will work to define the practices and techniques of shared movement and will encourage the artist to explore and examine how their individual body moves in space with another.

PART2010
DANCE HISTORY I
Credits (Min/Max): 3/3

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.

PART2012
SO VARIATIONS/REPertoire
Credits (Min/Max): 1/1

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.

PART2015
DANCE HISTORY II
Credits (Min/Max): 3/3

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.

PreRequisites: PART2010 - DANCE HISTORY I

PART2018
ETHNIC/DUNHAM TECHNIQUE
Credits (Min/Max): 1/1

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

PART2020
SO MEN'S DANCE TECHNIQUE
Credits (Min/Max): 1/1

This class is designed to develop the male 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 process. Male students must complete a total of 8 credits in this course.

PART2025
HISTORY OF MUSICAL THEATER (SLAE1097)
Credits (Min/Max): 3/3

A survey of musical theater and its development from its roots through the early 20th century, the Ziegfield follies, the 1920's in New York, Broadway and Hollywood in the 1930's, the golden age of musicals and movies up to and including today's musical theater.

PART2036
SO CHARACTER
Credits (Min/Max): 1/1

Character dance steps and national styles used in ballet and modern dance.

PART3000
JR PERFORMANCE
Credits (Min/Max): 1/1

This course consists of learning, executing and performing the repertoire of the Dance Program.

PART3002
MUSICAL THEATRE PRODUCTION I
Credits (Min/Max): 3/3

Dance production is a laboratory course providing each student with opportunity for hands-on training in the technical and performing aspects of theater. Each individual will be able to extend and broaden their production and performing experience.

PART3003
MUSICAL THEATRE PRODUCTION II
Credits (Min/Max): 3/3

Dance production is a laboratory course providing each student with opportunity for hands-on training in the technical and performing aspects of theater. Each individual will be able to extend and broaden their production and performing experience.

PART3004
JR BALLET TECHNIQUES
Credits (Min/Max): 3/3

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.

PART3005
JR CONTEMPORARY/MODERN
Credits (Min/Max): 3/3

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

PART3006
JR JAZZ
Credits (Min/Max): 2/2

This course is designed to acquaint the student with a beginning level of jazz dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study jazz history through videos and will be required to attend a live dance performance. Students must complete a total of 8 credits in this course.

PART3008
JR POINTE
Credits (Min/Max): 1/1

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.

PART3009
JR POINTE/PAS DE DEUX
Credits (Min/Max): 1/1

This course is designed to develop the artist's knowledge of pointe technique through the emphasis of strength, mechanics, artistry, and precision. The artist will work to demonstrate a clear articulation of the ballet vocabulary via the exact articulation of footwork in each movement as it is accomplished at both the barre and in centre practice. This class also designed to develop the artist's understanding of ballet and contemporary partnering. It will work to define the practices and techniques of shared movement and will encourage the artist to explore and examine how their individual body moves in space with another.

PART3010
JR PAS DE DEUX
Credits (Min/Max): 1/1

The student will learn the basic techniques required to perform classical partnering. Techniques will include various styles, lifts, supported pirouettes, and promenades. Contemporary partnering will be studied with respect to jazz and modern.

PART3012
JR VARIATIONS/REPertoire
Credits (Min/Max): 1/1

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.

PART3015
DANCE PEDAGOGY I
Credits (Min/Max): 3/3

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.

PART3018
ETHNIC/DUNHAM TECHNIQUE
Credits (Min/Max): 1/1

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

PART3020
JR MEN'S DANCE TECH
Credits (Min/Max): 1/1

This class is designed to develop the male 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 process. Male students must complete a total of 8 credits in this course.

PART3030
DANCE COMPOSITION I
Credits (Min/Max): 3/3

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.

PART3036
JR CHARACTER
Credits (Min/Max): 1/1

Character dance steps and national styles used in ballet and modern dance.

PART3050
SPECIAL TOPICS-TAP
Credits (Min/Max): 1/1

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.ed.

PART3050A
HISTORY OF ROCK & ROLL:SPECIAL TOPIC(SLAE1011)
Credits (Min/Max): 3/3

An introduction to the early years of rock music (1950s - mid 1970s) for the non-musician. The class will include the roots of rock and roll, teen idols, the folk music craze, the British invasion, Motown, psychedelic music, singer-songwriters and the roots of metal. The history of the 50♦s and 60♦s will be highlighted by the various styles of music. *Cross-listed with SLAE1011*

PART4000
SR PERFORMANCE
Credits (Min/Max): 1/1

This course consists of learning, executing and performing the repertoire of the Dance Program.

PART4004
SR BALLET TECHNIQUES
Credits (Min/Max): 3/3

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.

PART4005
SR CONTEMPORARY/MODERN
Credits (Min/Max): 3/3

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

PART4006
SR JAZZ
Credits (Min/Max): 2/2

This course is designed to acquaint the student with a beginning level of jazz dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study jazz history through videos and will be required to attend a live dance performance. Students must complete a total of 8 credits in this course.

PART4008
SR POINTÉ

Credits (Min/Max): 1/1

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.

**PART4009
SR POINTE/PAS DE DEUX
Credits (Min/Max): 1/1**

This course is designed to develop the artist's knowledge of pointe technique through the emphasis of strength, mechanics, artistry, and precision. The artist will work to demonstrate a clear articulation of the ballet vocabulary via the exact articulation of footwork in each movement as it is accomplished at both the barre and in centre practice. This class also designed to develop the artist's understanding of ballet and contemporary partnering. It will work to define the practices and techniques of shared movement and will encourage the artist to explore and examine how their individual body moves in space with another.

**PART4010
SR PAS DE DEUX
Credits (Min/Max): 1/1**

The student will learn the basic techniques required to perform classical partnering. Techniques will include various styles, lifts, supported pirouettes, and promenades. Contemporary partnering will be studied with respect to jazz and modern.

**PART4012
SR VARIATIONS/REPertoire
Credits (Min/Max): 1/1**

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.

**PART4018
ETHNIC/DUNHAM TECHNIQUE
Credits (Min/Max): 1/1**

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

**PART4020
SR MEN'S DANCE TECH
Credits (Min/Max): 1/1**

This class is designed to develop the male 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 process. Male students must complete a total of 8 credits in this course.

**PART4030
DANCE COMPOSITION II
Credits (Min/Max): 3/3**

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.

**PART4036
SR CHARACTER
Credits (Min/Max): 1/1**

Character dance steps and national styles used in ballet and modern dance.

**PART4051
INTERNSHIP IN PERFORMING ARTS
Credits (Min/Max): 1/6**

The internship gives students an opportunity to study dance in a professional setting.

**PART4055
SENIOR SEMINAR IN PER ARTS/DANCE
Credits (Min/Max): 3/3**

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.

**PHIL1020
LOGIC
Credits (Min/Max): 3/3**

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.

PHIL1021
INTRO TO PHILOSOPHY(SLRS1012)
Credits (Min/Max): 3/3

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 SLRS1012*

PHIL1022
EASTERN PHILOSOPHY
Credits (Min/Max): 3/3

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.

PHIL2022
HISTORY OF GREEK PHILOSOPHY
Credits (Min/Max): 3/3

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.

PHIL2023
HISTORY OF MODERN PHILOSOPHY
Credits (Min/Max): 3/3

The course examines the development of philosophy during the period of the scientific revolution from the 16th century through the 18th century. The problems discussed are: 1)the establishing of the conditions for the possibility of human knowledge, 2)determining the limits to that knowledge and 3)understanding the implications for the possibility of a science of nature and for the possibility of metaphysics as a science.

PHIL2026
ETHICS(SLRS1013)
Credits (Min/Max): 3/3

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 SLRS1013*

PHIL3024
CONTEMPORARY PHILOSOPHY
Credits (Min/Max): 3/3

The course examines the contemporary philosophies of existentialism, phenomenology, linguistic analysis and logical positivism. Some of the questions discussed are the impact of science on contemporary humans, the destruction of metaphysics and the problem of knowledge as seen from the perspective of the different philosophical movements.

PHIL3027
BIOMEDICAL ETHICS
Credits (Min/Max): 3/3

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.

PHYS1010
PHYSICS FOR HEALTH SCIENCE
Credits (Min/Max): 3/3

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.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

PHYS1010L
PHYSICS FOR HEALTH SCIENCE LAB
Credits (Min/Max): 1/1

Laboratory for PHYS1010

PHYS1032
GENERAL PHYSICS I
Credits (Min/Max): 3/3

This is the first of a three-semester introduction to calculus-based physics stressing experimental and problem-solving techniques. Concepts covered are mechanics, kinematics, Newton's laws of motion, conservation laws, rotational motion, gravitation, oscillation, and wave/acoustics.

PHYS1032L
GENERAL PHYSICS I-LAB
Credits (Min/Max): 1/1

Laboratory for PHY 132

PHYS1033
GENERAL PHYSICS II
Credits (Min/Max): 3/3

The second of a three-semester introduction to calculus-based physics. Concepts covered are thermal properties and electromagnetism: thermo dynamics, electricity, magnetism, electromagnetic wave, geometrical optics, and physics optics.

PreRequisites: PHYS1032 - GENERAL PHYSICS I

PHYS1033L
GENERAL PHYSICS II-LAB
Credits (Min/Max): 1/1

Laboratory for PHY 133

PHYS2030
PHYSICS III
Credits (Min/Max): 3/3

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.

PHYS2030L
PHYSICS III-LAB
Credits (Min/Max): 1/1

Laboratory for PHYS2030

PHYS2080
ANALOG ELECTRONICS
Credits (Min/Max): 3/3

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.

PHYS2080L
ANALOG ELECTRONICS-LAB
Credits (Min/Max): 0/0

Lab for PHYS2080 Analog Electronics

PHYS3075
COMPUTATIONAL PHYSICS
Credits (Min/Max): 3/3

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.

PHYS3080
DIGITAL ELECTRONICS
Credits (Min/Max): 3/3

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.

PHYS3080L
DIGITAL ELECTRONICS-LAB
Credits (Min/Max): 0/0

Lab for PHYS3080 Digital Electronics

PHYS3082
ELECTRONICS COMMUNICATION
Credits (Min/Max): 3/3

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 PHYS2080 Analog Electronics and PHYS 3080 Digital Electronics.

PHYS3082L
ELECTRONIC COMMUNICATION-LAB
Credits (Min/Max): 0/0

Lab for PHYS3082 Electronic Communication

PHYS4075
PHYSICS OF INFORMATION THEORY
Credits (Min/Max): 3/3

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.

PHYS4080
INSTRUMENTAL PHYSICS
Credits (Min/Max): 3/3

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.

POLI1022
AMERICAN GOVERNMENT
Credits (Min/Max): 3/3

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.

POLI2001
GLOBAL POLITICS(INST2001)
Credits (Min/Max): 3/3

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 INST2001*

POLI2005
CONSTITUTIONAL LAW(CRIM2005)
Credits (Min/Max): 3/3

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 CRIM2005*

POLI2045
ISLAM IN THE WORLD (HIST/SOCL2045)
Credits (Min/Max): 3/3

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 HIST/SOCL2045*

POLI3002
HISTORY OF EUROPEAN DIPLOMACY (HIST3002)
Credits (Min/Max): 3/3

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 HIST3002*

POLI3011
RESEARCH METHODS
Credits (Min/Max): 3/3

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.

POLI3015
HISTORY/POLITICAL THOUGHT (HIST3015)
Credits (Min/Max): 3/3

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 HIST3015.*

POLI3019
HISTORY & POLITICS OF AFRICA
Credits (Min/Max): 3/3

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.

POLI3021
COMPARATIVE GOVERNMENT(INST3021)
Credits (Min/Max): 3/3

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 INST3021*

POLI3023
MODERN U.S. DIPLOMATIC HISTORY (HIST/INST3023)
Credits (Min/Max): 3/3

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 HIST/INST3023*

POLI3025
DEVELOPMENT:POLITICAL, SOCIAL & ECONOMIC ISSUES(INST3025)
Credits (Min/Max): 3/3

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 INST3025*

POLI3032
COMPARATIVE PUBLIC POLICY
Credits (Min/Max): 3/3

This course is an introduction to the formation and dissemination of public policy in various countries around the world. This course examines the means by which political, economic, social and technological issues become public policy concerns. The impact of public policy decision-making is critically evaluated.

POLI3033
AMERICAN FOREIGN POLICY (INST3033)
Credits (Min/Max): 3/3

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 INST3033*

POLI3036
HIST AMER POL VALUES(HIST3036)
Credits (Min/Max): 3/3

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 HIST3036*

POLI3037
THE AMERICAN PRESIDENCY
Credits (Min/Max): 3/3

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.

POLI3039
POLITICS AND SOCIETY(SOCL3039)
Credits (Min/Max): 3/3

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 SOCL3039*

POLI3040
ETHNIC CONFLICT(SOCL3040)
Credits (Min/Max): 3/3

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 SOCL3040*

POLI3041
TERRORISM IN THE MODERN AGE
Credits (Min/Max): 3/3

This course explores the global political context which gives rise to terrorist groups and movements, while also differentiating between authentic terrorist movements and those which are radical but not terrorist. Emphasis is on the historical and contemporary evolution of terrorist movements, the reasons for their emergence, and the current status of present-day terrorist groups and movements.

POLI3045
HISTORY & POLITICS OF MID EAST (HIST3045)
Credits (Min/Max): 3/3

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 HIST3045*

POLI3051
DEVELOPMENT IN SOUTHEAST ASIA (HIST/SOCL3051)
Credits (Min/Max): 3/3

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 HIST/SOCL3051*

POLI3052
EXPERIENCE OF MODERN WAR (HIST3052)
Credits (Min/Max): 3/3

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 HIST3052*

POLI3082
SOCIAL MOVEMENT & RESISTANCE (SOCL3082)
Credits (Min/Max): 3/3

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 SOCL3082*

POLI4000C
HISTORY & POLITICS OF ITALY
Credits (Min/Max): 3/3

This course explores various facets of the general history of Italy from ancient times, through to the Roman Empire, and then on into the modern construction of Italy as a nation-state. The course also delves into recent Italian government and politics. Students will have the opportunity to explore specific research topics in Italian history or politics, such as art, architecture, culture, social life, culinary experiences, personal family histories, comparative urban design, military history, Italian prime ministers, Italian elections, and other topics.

POLI4051
INTERNSHIP
Credits (Min/Max): 3/3

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 institute to which the student is assigned.

POLI4055
SENIOR SEMINAR IN POLITICAL SCI
Credits (Min/Max): 3/3

A capstone and research methodology course that acquaints students with political research methods. Students will synthesize their knowledge of political science through the discussion of the research process and the writing and presentation of a research paper.

POLI4057
POLITICAL SCIENCE-INDEPENDENT STUDY
Credits (Min/Max): 1/3

Individual study course that is supervised by a full-time faculty member.

PSED1003
CONDITIONING I
Credits (Min/Max): 2/2

This course is designed to enable students individually to assess personal strengths and weaknesses and to develop an effective individualized physical program to alleviate weaknesses and to maintain strengths.

PSED1004
CONDITIONING II
Credits (Min/Max): 2/2

This course focuses on specific areas of physical activity, exercise, health, physical fitness, skill learning and body mechanics. Both men and women students receive instruction on theory and methods of physical activity and exercise in order to develop personal physical exercise programs.

PSED1005K
AEROBIC DANCE
Credits (Min/Max): 1/1

To develop a general understanding of overall physical conditioning and the means to which this state can be achieved. To show students that working out is fun and that Fitness is for LIFE.

PSED1005S
YOGA
Credits (Min/Max): 2/2

Yoga is the union occurring between the mind, body and spirit. Yoga is about creating balance in the body through developing both strength and flexibility. This is done through the performance of poses or postures, each of which has specific physical benefits. The poses can be done quickly in succession, creating heat in the body through movement or more slowly to increase stamina and perfect the alignment of the pose.

PSED1007
ACADEMIC ORIENTATION FOR VARSITY ATHLETES
Credits (Min/Max): 3/3

This course will introduce students to the rigors of the varsity sport experience. It provides the information that the student needs to understand, organize, plan and thrive in the competitive environment of a collegiate sport program while integrating themselves into the university community. The corner stone of this course is the varsity sport experience itself. Under the tutelage of our coaches, these student-athletes will learn how to prepare for and engage in physical and psychological contests of the highest order. In addition to engagement with the finest physiological training students are taught to work collaboratively in small and large groups to solve complex movement problems. Critical thinking is stressed as students negotiate the complex real world problem of being a student athlete in a collegiate athletic program. Social behavior, community, and scholarly conduct are continually addressed as the student-athletes attempt to integrate themselves into the college and local community.

PSED1008
PILATES
Credits (Min/Max): 1/1

Pilates emphasizes the balanced development of the body through core strength, flexibility, and awareness in order to support efficient, graceful movement. It 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.

PSED1009
MEDITATION
Credits (Min/Max): 1/1

Meditation uses breath work, concentration, and positive affirmations to elicit the relaxation response. Students will practice various meditative techniques and learn the many benefits and positive outcomes of meditation as a practice.

PSED4057
PHYSICAL EDUCATION-INDEPENDENT STUDY
Credits (Min/Max): 1/3

Independent study is an accelerated program for superior students in the division of natural and mathematical sciences. It is intended to allow a student to pursue an independent study in conjunction with a divisional faculty member. To be eligible for independent study the student must comply with all appropriate college policies.

PSYC1021
INTRO TO PSYCHOLOGY
Credits (Min/Max): 3/3

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 thoughts, feelings and behaviors.

PSYC1021H
INTRO TO PSYCHOLOGY-HONORS
Credits (Min/Max): 3/3

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 and mental processes. Included are such diverse topics as: health, stress, and coping; consciousness, sleep and dreams; effects of psychoactive drugs on behavior and health; psychopathology; social psychology; hypnosis; types of learning and behavior management, information processing approaches including memory, encoding and retrieval; and the relationship of the nervous system to thought, feelings, and behaviors. Multiple activities and research projects allow students to experience psychology "up close and personal".

PSYC2015
HEALTH PSYCHOLOGY
Credits (Min/Max): 3/3

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.

PSYC2018
HUMAN SEXUALITY
Credits (Min/Max): 3/3

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: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC2022
CHILD DEVELOPMENT
Credits (Min/Max): 3/3

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: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC2033
THE EXCEPTIONAL CHILD
Credits (Min/Max): 3/3

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.

PSYC2036
PSYCHOLOGY & HUMOR
Credits (Min/Max): 3/3

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.

PSYC2040
ADOLESCENT PSYCHOLOGY
Credits (Min/Max): 3/3

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: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC2061
EDUCATIONAL PSYCHOLOGY
Credits (Min/Max): 3/3

A study of psychology in education, individual differences, learning and teaching processes, evaluations of learning outcomes and educational and personal development of learners.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC3011
RESEARCH METHODS IN PSYCHOLOGY
Credits (Min/Max): 3/3

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: CRIM2012 - ANALYSIS OF CRIM JUSTICE DATA

PSYC3020
DEATH & DYING(SOCL3020)
Credits (Min/Max): 3/3

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.

PSYC3023
ABNORMAL PSYCHOLOGY
Credits (Min/Max): 3/3

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: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC3025
INDUSTRIAL & ORGANIZATIONAL PSYC
Credits (Min/Max): 3/3

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.

PSYC3027
LEARNING & COGNITION
Credits (Min/Max): 3/3

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: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC3028
THEORIES OF PERSONALITY
Credits (Min/Max): 3/3

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: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC3029
SOCIAL PSYCHOLOGY(SOCL/CMET3029)
Credits (Min/Max): 3/3

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.*Cross-listed with SOCL/CMET3029*

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC3030
INTERPERSONAL & GROUP DYNAMICS
Credits (Min/Max): 3/3

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: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC3031
TESTS & MEASUREMENTS
Credits (Min/Max): 3/3

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.

PSYC3032
PSYCH OF ADULTHOOD & AGING
Credits (Min/Max): 3/3

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.

PSYC3035
PHYSIOLOGICAL PSYCHOLOGY
Credits (Min/Max): 3/3

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: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC3040
COUNSELING THEORIES & METHODS I
Credits (Min/Max): 3/3

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: PSYC3023 - ABNORMAL PSYCHOLOGY

PSYC3041
COUNSELING THEORIES & METHODS II
Credits (Min/Max): 3/3

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: PSYC3040 - COUNSELING THEORIES & METHODS I

PSYC3045
EVOLUTIONARY PSYCHOLOGY
Credits (Min/Max): 3/3

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.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC3063
CRIMINAL BEHAVIOR:LAW & PSYCHOLOGY(CRIM3063)
Credits (Min/Max): 3/3

This course, through an integration of psychology, criminology, political science and law, examines the role of the outlaw in both our community and global society. Elements of the course include psychological explanations of individual personality development, choice, both rational and thrill-motivated theories of criminality, examination of the role that powerful outlaws have played in our communities, and the rise of deviant individuals who have gained enormous power by capitalizing on the forces of globalization. The course also intertwines the legal means that society has employed to restrict the power of the outlaw in our society and the capacity of individuals to overcome attempts at domination.

PSYC3065
FORENSIC PSYCHOLOGY
Credits (Min/Max): 3/3

The course provides the student with a general introduction to the practice of forensic psychotherapy and forensic psychology. Forensic psychotherapy addresses therapeutic work with criminally inclined individuals whose behavior or level of psychological functioning is in some way related to their criminal offense. Forensic psychology addresses ways in which experts in psychological assessment and diagnosis contribute to the legal system.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC4050
SPECIAL TOPICS IN ADVANCED PSYCHOLOGY
Credits (Min/Max): 3/3

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.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

PSYC4051
PSYCHOLOGY INTERNSHIP I
Credits (Min/Max): 1/6

An application of behavioral, developmental, group dynamics, and counseling principles through actual work experience. Internship may be repeated. Further information is available from instructor.

PSYC4052
PSYCHOLOGY INTERNSHIP II
Credits (Min/Max): 1/3

An application of behavioral, developmental, group dynamics, and counseling principles through actual work experience. Internship may be repeated. Further information is available from instructor.

PSYC4055
SENIOR SEMINAR IN PSYCHOLOGY
Credits (Min/Max): 3/3

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: PSYC3011 - RESEARCH METHODS IN PSYCHOLOGY

PSYC4056
DIRECTED RESEARCH
Credits (Min/Max): 2/4

Individual research supervised by a full-time faculty member.

PSYC4057
PSYCHOLOGY-INDEPENDENT STUDY
Credits (Min/Max): 1/3

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

REAL1095
FUND OF REAL ESTATE & PRACTICE
Credits (Min/Max): 4/4

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.

REAL3000
REAL ESTATE LAW & ETHICS
Credits (Min/Max): 3/3

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.

REAL3001
REAL ESTATE APPRAISAL
Credits (Min/Max): 3/3

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.

REAL3002
REAL ESTATE FINANCE
Credits (Min/Max): 3/3

This course provides the basic concepts of real estate financing. Addressed is the nature and cycle of this kind of financing, the sources of funds, the types of legal and financial instruments used, the variety of loan arrangements utilized, the role of governmental agencies and the importance of the secondary mortgage markets. A case/workbook approach is used to facilitate the learning process.

REAL4051
REAL ESTATE-INTERNSHIP I
Credits (Min/Max): 1/6

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.

REAL4057
REAL ESTATE-INDEPENDENT STUDY
Credits (Min/Max): 1/3

Independent study is intended to allow a student to pursue studies in advanced or special topics.

RELS1001
OLD TESTAMENT(SLRS1006)
Credits (Min/Max): 3/3

A general overview of the Old Testament in light of present historical, literary, theological, and archeological research. *Cross listed with SLRS1006* ♦

RELS1002
NEW TESTAMENT(SLRS1011)
Credits (Min/Max): 3/3

A general introduction to the New Testament and overview of the historical, religious and cultural milieu in which these Scriptures originated. *Cross-listed with SLRS1011*

RELS1003
WORLD RELIGIONS(SLRS1003)
Credits (Min/Max): 3/3

This course examines the historical development together with the religious beliefs and practices of the major religions of the world including Hinduism, Buddhism, Jainism Sikhism, Confucianism, Taoism, Shinto, Judaism, Christianity, Islam and Zoroastrianism. The teachings of each religion regarding the Absolute, the world, the nature of humans, the problem facing humans, the solution of the problem for humans, Community and Ethics, Rituals and Symbols, and what happens after death will be studied. The course also includes an examination of the beginnings of religion in human history as well as the characteristics of tribal and national religions. *Cross-listed with SLRS1003*

RELS1011
CHURCH HISTORY
Credits (Min/Max): 3/3

An examination of the unfolding and growth of Christian thought in the Western world and analysis of the notion of theological development.

RELS1012
CHRISTIAN RITUAL & WORSHIP
Credits (Min/Max): 3/3

A study of the meaning or ritual and worship in Christianity, major steps in the development of the Eucharist (especially in the Western traditions), the impact of the Reformation on the meaning and form of worship and a brief discussion of common symbols.

RELS1015
MORAL THEOLOGY
Credits (Min/Max): 3/3

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.

RELS1016
SACRAMENTAL THEOLOGY
Credits (Min/Max): 3/3

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.

RELS1018
SURVEY OF CATHOLIC DOCTRINE
Credits (Min/Max): 3/3

This course offers a general overview of the nature of Revelation, Faith, and the sources of Revelation, together with an overview of the more important doctrinal and moral teachings of the Catholic Church.

RELS2014
CHRISTOLOGY(SLRS1005)
Credits (Min/Max): 3/3

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 SLRS1005*

RELS2020
WOMEN & RELIGION
Credits (Min/Max): 3/3

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.

RELS2033
MYSTERY OF GOD
Credits (Min/Max): 3/3

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.

RELS2034
CHURCH: INSTITUTION & COMMUNITY
Credits (Min/Max): 3/3

The Church is both an institution and a community of people united in their belief that Jesus is the Savior of the World. This course examines the Church from a scriptural, historical and theological perspective.

RELS2050
SPECIAL TOPICS IN RELIGIOUS STUDIES
Credits (Min/Max): 3/3

A collection of courses covering a broad range of topics in religious studies, offered according to student need and interest.

RELS3031
RELIGION AND SOCIETY
Credits (Min/Max): 3/3

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 SOCL3031*

RELS3037
RELIG INFL ON US DVMT(HIST3037)
Credits (Min/Max): 3/3

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 HIST3037*

RELS3040
VARIETIES OF EARLY CHRISTIANITY (HIST3040)
Credits (Min/Max): 3/3

This course treats Christianity from its origins through the medieval period. Special attention is given to internal issues and external forces, which caused conflict, adjustment, development, and finally varieties within the Christian world. For instance, it explores how dissident movements, the conversion of Constantine, the Germanic invasions, and the rise of Islam, feudalism, and papal power affected Christianity. The course also attempts to analyze how tensions between the institutional church and popular religious movements influenced society. *Cross-listed with HIST3040*

RELS3045
SPECIAL TOPICS IN SCRIPTURE
Credits (Min/Max): 3/3

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.

RELS4051
RELIGIOUS STUDIES INTERNSHIP I
Credits (Min/Max): 1/3

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.

RELS4052
RELIGIOUS STUDIES INTERNSHIP II
Credits (Min/Max): 1/3

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.

RELS4055
SENIOR SEMINAR IN RELIGIOUS STUDY
Credits (Min/Max): 3/3

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.

RELS4056
DIRECTED RESEARCH-RELIGIOUS STUDIES
Credits (Min/Max): 2/6

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.

RELS4057
RELIGIOUS STUDIES-INDEPENDENT STUDY
Credits (Min/Max): 1/3

The independent study is intended to give an opportunity to students with superior ability to pursue an area of study in religious studies that is very specific in focus and/or not covered in existing offerings.

SASU3001
MEXICO:STUDY ABROAD/STUDY USA
Credits (Min/Max): 1/1

The La Roche Experience aims to provide students with the opportunity to experience and share the spirit, mission, and rich heritage of the Sisters of Divine Providence. The congregation of Divine Providence, founded in 1851, is an international community of vowed women and associates who seek to make God's Providence visible by responding to the needs of the time and co-creating a world of compassion, justice and peace. Building on the service learning opportunities, simulation exercises, and opportunities for theological and spiritual experience of LRCX1001, the learning objective of LRCX1002 is to allow students to continue to build a common pool of metaphors through their participation in reading and discussing common texts and reflecting upon media experiences with particular emphasis to economic justice and environmental sustainability. [Study Abroad + Study U.S.A. Website](#)

SASU3002

NAVAJO NATION:STUDY ABROAD/ STUDY USA

Credits (Min/Max): 1/1

Perhaps the most significant issue confronting Native American peoples today is that of land use. Having lost the vast majority of their ancestral lands through treaty, conquest, and forced removal, Native tribal nations subsist largely on submarginal reservation lands that are beset by an array of problems: inadequate resources, air and water pollution, assaults on sacred sites, conflicts with local, state, and federal governments and with surrounding non-Native populations, and so on. At the same time, the value many of these lands possess for coal, uranium, and other mineral and energy interests produces both positives (income and employment) and negatives (health and other risks) for the affected tribes. Finally, overarching these material issues are ethical conflicts within Native communities and between Native and non-Native communities concerning the proper spiritual relation to and use of the land. In this course, we will explore the various issues related to contemporary Native American land use and land ethics through travel to the Navajo Nation reservation in Arizona and New Mexico, through study of print materials and conversation with Native peoples, and through community service projects on-site. This Study USA course thus provides students with insight and experience concerning an important contemporary topic, while engaging issues of diversity and discrimination, regional conflict, and economic (and particularly environmental) justice. As such, it fulfills the 1-credit LRCX1002, LRCX2001, or LRCX2002 requirement of the La Roche Experience. [Study Abroad + Study U.S.A. Website](#)

SASU3003

ITALIAN & GREEK CIVILATIONS: STUDY ABROAD/STUDY USA

Credits (Min/Max): 1/1

This course presents the legacies of the classical Italian and Greek civilizations, which served as the foundation of Western civilization. Students will be introduced to the history, language, music, architecture and art of these cultures in order to foster an appreciation for the Classical world. Participants will have the opportunity to experience and compare the cultural diversity of these countries and explore some of the most famous historical sites in the world. [Study Abroad + Study U.S.A. Website](#)

SASU3004

GALAPAGOS ISLAND COMMUNITIES: STUDY ABROAD/STUDY USA

Credits (Min/Max): 3/3

Communities are not just about people. A biological community refers to all populations of all species occupying a specified area. This course will examine the communities (human and non-human) of one of the most unique ecosystems on Earth: the Galapagos Islands. Participants will be able to observe, first hand, the diversity of wildlife and environmental conditions that gave rise to Darwin's theory of evolution by natural selection. The course will promote, through experiential learning, an understanding of the impact of human activity on the rest of the natural world and the interdependence among all living things. [Study Abroad + Study U.S.A. Website](#)

SCED3014

READING AND WRITING ACROSS THE DISCIPLINES(ENED3014)

Credits (Min/Max): 3/3

Introduces a wide variety of methods for secondary teachers to present reading and writing skills in any curriculum area. Specific content areas will be presented within the curriculum of other disciplines. How to use Writing to Learn will be an important aspect of this course. *Cross listed with ENED3014*

SCED3051

ADVANCED FIELD EXPERIENCE (ENED3051)

Credits (Min/Max): 3/3

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 ENED3051*

SELITAES-002

MONSTERS, MAGICIANS AND MACHINES

Credits (Min/Max): 3/3

This course is designed especially for the non-English major and explores the fundamental principles of literary and cultural analysis and an overview of the African-American tradition in music: call and response, spirituals, work songs, soul, jazz, rhythm and blues, rap, and gospel music. No prior knowledge of music or literary theory is expected.

SELITAES-009

WAR: LITERATURE & FILM

Credits (Min/Max): 3/3

This course is designed to introduce students, particularly non-English majors, to literary and cinematic criticism through the study of diverse works of literature and film. The focus of the course is twofold. First, we will consider works thematically - exploring a central issue in each term/section, such as Fantasy, Detective/Mystery, War, or Coming of Age through works that may come from various times and cultures. Second, we will investigate the works aesthetically by developing vocabularies and techniques for understanding our two major media (texts and cinema). In examining, discussing, presenting, and writing about these works, students will gain insight into the development, concerns, and significance of the genres, and more general knowledge of the theories and practices of textual and cinematic analysis.

By ♦War♦, we do not mean any tale that has some conflict, fighting, or battle in it. These stories must be fictional or creative non-fiction (not a history textbook, for example) stories set w