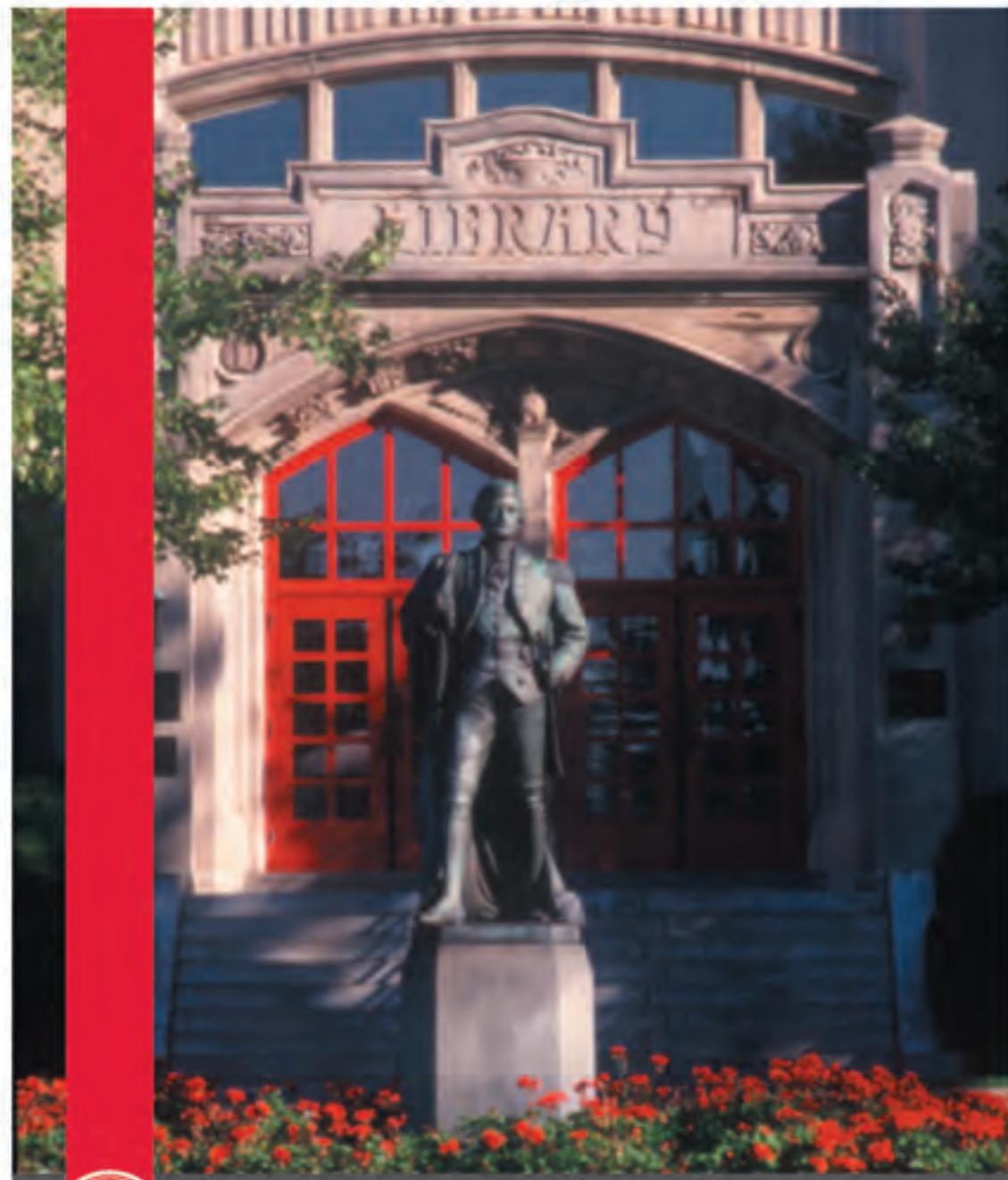


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COLLEGE
2400 CHEW STREET
ALLENTOWN, PA 18104-5586

Muhlenberg College Catalog 2007-2008



Catalog 2007-2008

MUHLENBERG
COLLEGE



Catalog

One Hundred Sixtieth
Academic Year

2007-2008

Allentown, Pennsylvania 18104-5586
Telephone: 484-664-3100 TTY/TDD: 484-664-3623
Fax: 484-664-3234

Information given in this catalog is correct as of the date of publication. Unexpected changes may occur during the academic year. Therefore, the listing of a course or program in this catalog does not constitute a guarantee or contract that the particular course or program will be offered during a given year.

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Purposes and Resources



Founded in 1848 to provide a liberal arts education in the Judeo-Christian humanistic tradition, Muhlenberg College is committed to the highest standards of academic integrity and excellence. It is an independent, undergraduate, coeducational institution related to the Evangelical Lutheran Church in America.

The College is located in Allentown, Pennsylvania, in the residential “west end” neighborhood, approximately 55 miles north of Philadelphia and 90 miles west of New York City. The College benefits by being situated next to Allentown’s famous park system.

MISSION STATEMENT

Muhlenberg College aims to develop independent critical thinkers who are intellectually agile, characterized by a zest for reasoned and civil debate, knowledgeable about the achievements and traditions of diverse civilizations and cultures, able to express ideas with clarity and grace, committed to life-long learning, equipped with ethical and civic values, and prepared for lives of leadership and service.

The College is committed to providing an intellectually rigorous undergraduate education within the context of a supportive, diverse residential community. We are also committed to educating the whole person through experiences within and beyond the classroom. Our curriculum integrates the traditional liberal arts with selected pre-professional studies. Our faculty are passionate about teaching, value close relationships with students, and are committed to the pedagogical and intellectual importance of research.

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Honoring its historical heritage from the Lutheran Church and its continuing connection with the Evangelical Lutheran Church in America, Muhlenberg welcomes and celebrates a variety of faith traditions on campus and encourages members of the College community to value spiritual life.

THE FACULTY

The College's most important resource in the fulfillment of its purposes is its faculty, drawn from the major universities of the United States and several other nations. Although more than three-quarters of the full-time teaching faculty at Muhlenberg hold the Ph.D. degree, research and scholarship are undertaken with special regard to their relationship to teaching and learning. Every effort is made to encourage a community of productive scholars and artists who share a passion for effective teaching.

The faculty have developed an academic program that endeavors to resolve the rich complexities inherent in the liberal arts tradition: breadth versus depth, discipline versus flexibility, continuity versus change. As a liberal arts college, Muhlenberg offers programs in the humanities, the natural and social sciences, and in professional areas such as business, education, pre-medical and pre-theological studies, and pre-law. Flexibility is provided with sensitivity to the individual needs of the student through course options and opportunities for independent study, research, and internships, as well as through a plan for self-designed majors. Through a process of long-range planning and constant review, the College strives to keep its curriculum vital and current with the rapidly changing intellectual world. The excellence and integrity of the Muhlenberg program have been recognized by Phi Beta Kappa and by some 13 additional national honoraries.

THE MUHLENBERG TRADITION

Another important resource of the College is its inheritance of traditional values developed over one and one-half centuries of institutional life. Significant in its tradition are the historic ties between the College and the Lutheran Church. The name Muhlenberg College was adopted in 1867—19 years after the College was founded—in honor of the patriarch of the Lutheran Church in America, Henry Melchior Muhlenberg. The sons of Henry Melchior Muhlenberg made important contributions to the early life of our country. General John Peter Gabriel Muhlenberg wintered at Valley Forge with George Washington; Frederick Muhlenberg was the first speaker of the United States House of Representatives; Henry Ernst Muhlenberg was one of the most eminent early American scientists and the first president of Franklin College, now Franklin and Marshall College. All of these men were clergymen who symbolized the relationship of the church to the life of the mind and the life of public service.

Muhlenberg owes much of the distinctiveness of its character and the quality of its life to the historic and continuing relationship with the church. The College believes that

its religious background enhances the community of learning within which the search for beauty and truth may flourish. These associations serve to remind us that truly liberating education is not merely a quest for salable answers in the marketplace of ideas, but a process through which people acquire self-understanding, a sensitivity to the values inherent in our Western heritage and in other cultures, and an ability to improve the quality of human life.

DIVERSITY WITHIN COMMUNITY

The College is committed not only to nurturing a sense of oneness and community but also to developing a greater diversity among its members. The College has initiated special strategies to recruit students, faculty, and staff which will result in a greater diversity in the College community. The development of additions to the curriculum and student life programs as well as the presence of persons from varied ethnic and geographic backgrounds enriches and re-forms the tradition of the College.

Muhlenberg enjoys the benefits of extraordinary religious diversity within its community. This provides opportunities for dialogue and understanding truly unique among church-related institutions.

As a further sign of its commitment to fruitful interaction between diverse traditions, the College established the Institute for Jewish-Christian Understanding in 1989. Building on the College's Christian heritage and also acknowledging the significant Jewish presence that has long marked its life, the Institute is devoted to fostering deeper understanding between the two communities.

THE LEHIGH VALLEY ASSOCIATION OF INDEPENDENT COLLEGES

The extensive network of colleges in the Lehigh Valley is another significant resource for Muhlenberg. Five other liberal arts institutions are located within a few miles of the campus: Cedar Crest College, DeSales University, Lafayette College, Lehigh University, and Moravian College. Muhlenberg and these institutions form a nationally recognized cooperative organization, the Lehigh Valley Association of Independent Colleges (LVAIC). Through faculty exchanges, cross-registration, joint summer sessions locally and overseas, cooperative cultural programs, and other kinds of inter-institutional cooperation, LVAIC expands opportunities for Muhlenberg students. (See "LVAIC Cross Registration," page 61.)

ACCREDITATION

Muhlenberg's academic program is accredited by all of the important and appropriate agencies, including the Middle States Association of Colleges and Secondary Schools, the Department of Education of the Commonwealth of Pennsylvania, and the New York State Board of Regents. The College is on the approved list of the American

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Chemical Society. It is also a member of the Council for the Advancement and Support of Education, the American Association of Colleges of Teacher Education, the College Entrance Examination Board, the Pennsylvania Association of Colleges and Universities, and the National Collegiate Honors Council.

ENVIRONMENTAL LITERACY

Muhlenberg College is a member of the Association of University Leaders for a Sustainable Future (ULSF), an international organization of signatories to the Talloires Declaration that is committed to higher education leadership for the advancement of global environmental literacy. Carrying out the principles of action in education to promote environmental stewardship, Muhlenberg College strives to unite management, faculty, staff, and students in a collaborative effort to create a sustainable institution. As a member of this global movement, Muhlenberg College fosters sustainable development through environmental literacy by integrating ecosystem and human health principles and concepts and environmental responsibility across its curricula, research, operations, and partnerships.

NON-DISCRIMINATION POLICY

Muhlenberg College does not discriminate on the basis of race, color, religion, national or ethnic origin, sex, sexual orientation, disability, or age in the administration of any of its programs or activities, including admissions, financial aid, and employment.

All inquiries regarding this policy and complaints of discrimination in violation of this policy may be directed to:

Vice President, Human Resources
Third Floor, The Haas College Center
484-664-3166

Complaints will be handled in accordance with the appropriate procedures established for resolving such complaints as set forth in student, faculty, and staff handbooks. In addition, inquiries concerning the application of Title IX of the Education Amendments of 1972 (prohibiting discrimination on the basis of sex) may be directed to the Assistant Secretary for Civil Rights, U.S. Department of Education.

Admission Policy



Muhlenberg College is committed to the ideal of excellent standards of scholarship. The College selects students who give evidence of ability and scholastic achievement, seriousness of purpose, quality of character, and the capacity to make constructive contributions to the College community. Evidence of integrity and ethical behavior is important in the admission decision. Careful consideration is given to each applicant as a scholar and as a person, with the object being to assemble a class that is academically talented and diversified.

ADMISSION REQUIREMENTS

Admission to Muhlenberg is based upon a thorough review of each candidate's scholastic performance records and personal qualities. There is no precise admissions "formula;" various factors are carefully considered in each decision made by the Admission Committee. The following credentials are of primary importance:

SECONDARY SCHOOL RECORD

The minimum requirement is the satisfactory completion of a secondary school college preparatory program of at least 16 Carnegie units. These units should include four of English, two (preferably three) of one foreign language, three of mathematics, two (preferably three) of science, two of history, and major academic electives. Exceptions to these requirements will be considered on an individual basis in cases of documented learning disability, home schooling, or other exceptional situations.

The Admission Committee recognizes and encourages secondary school enrollment in accelerated and advanced placement courses. The strength of an applicant's four year secondary school program and achievement is of utmost importance in each admissions decision.

STANDARDIZED TESTS

Results of the SAT-I or ACT (with writing) and SAT-II Subject Tests are evaluated in conjunction with the applicant's secondary school record. Test results are requested as an additional indication of potential for academic success at the college level. Non-U.S. citizens for whom English is not the first language should submit results of the Test of English as a Foreign Language (TOEFL).

In the spring of 1996, the Muhlenberg faculty and Board of Trustees voted to make the SAT and ACT an optional part of the admissions process on an experimental basis. Students choosing not to submit the SAT or ACT are required instead to provide a graded paper with the teacher's grade and comments on it. Such students also are required to interview with a member of the Admission staff. Students wishing to be considered for non-need merit awards and/or honors programs at Muhlenberg must submit the results of SAT or ACT testing. Additional details regarding Muhlenberg's optional standardized testing policy are available from the Office of Admission and are included in each application packet.

PERSONAL QUALITIES

While the strength of an applicant's academic preparation is of primary consideration, the Admission Committee is also very interested in each applicant as an individual. Muhlenberg College is a small community which thrives upon the variety of contributions made by its members on all levels. The College, therefore, seeks students who will contribute to the campus personally as well as academically. Evidence of an applicant's personal qualities is considered through the breadth and depth of extracurricular pursuits, the personal essay, and the recommendations from the student's school advisor and two teachers of major academic classes. A personal interview with a member of the Admission staff is also helpful in this regard.

APPLICATION PROCEDURES

As a charter member, Muhlenberg College participates in the Common Application program along with over 250 other selective colleges and universities across the country. Muhlenberg uses this form exclusively as the required application for admission.

Candidates should begin their applications during the fall of their senior year in secondary school. The complete application file must include the following:

Application for Admission (Common Application Form), completed in detail by the applicant and accompanied by the non-refundable \$50 application fee;

Secondary School Transcript, including seven semesters, (10 trimesters) and showing rank in class (if available);

School Report, completed by the applicant's guidance counselor, college advisor, or headmaster;

Teacher References, completed by two instructors who have taught the applicant in major academic subjects; and

Standardized Test results, forwarded to the College from the College Entrance Examination Board or American College Testing Agency. All candidates are encouraged to take the SAT-I or ACT (with writing). Additional subject tests are encouraged as a supplement to a student's high school record and other standardized test scores. These other tests should be chosen with academic experience and interest in mind and may be helpful in placing students into advanced levels of Muhlenberg work. Some students may also wish to be considered for admission under Muhlenberg's optional standardized testing policy (see "Standardized Tests"). Details of that program are available from the Office of Admission and are included in each application packet.

The SAT or ACT normally should be taken at least twice - in the junior year and again in November or December of the senior year.

It is the applicant's responsibility to see that the above-listed credentials are received by the College. *The preferred deadline for applications is FEBRUARY 15.*

Inquiries concerning admission and application procedures should be directed to the Dean of Admission and Financial Aid, Muhlenberg College, 2400 Chew Street, Allentown, PA 18104-5586.

PERSONAL INTERVIEW

Muhlenberg believes that an interview with a member of the Admission staff is of value both to the applicant and to the College. A personal interview is strongly recommended for all applicants and required for students who choose not to submit the SAT or ACT. Arrangements for all appointments should be made well in advance of the intended visit by calling the Office of Admission at (484) 664-3200. Interviews are conducted for seniors until February 15; juniors may plan their visits after April 1.

Campus tours are available in conjunction with the interview appointment or separately. Arrangements may be made by calling the above listed number.

EARLY DECISION

The Admission Committee will make a formal early commitment of acceptance to candidates whose qualifications indicate strong promise for successful college performance. Muhlenberg subscribes to the "first choice" option of the Early Decision Plan Agreement of the College Entrance Examination Board. This agreement stipulates that Early Decision candidates may file regular decision applications at other

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colleges with the understanding that they must be withdrawn if accepted under the Early Decision Plan at Muhlenberg. When filing an application for Early Decision, applicants must sign the Early Decision commitment form (included in the application packet) stating that they will abide by the provisions of the Early Decision agreement. *It is strongly recommended that students wishing to be considered for Early Decision make arrangements for a personal interview with a member of the Admission staff by January 15.*

The Early Decision application deadline is February 1. Notification will be sent from the Admission Committee between December 1 and March 1 provided all application materials are received by the February 1 deadline. Those candidates not accepted under the Early Decision plan but whose credentials warrant further consideration, will be deferred to the regular decision applicant group where **full** review will again be made at a later date when additional information is available.

For the class entering in Fall 2007, 284 seats were filled via Early Decision.

NOTICE OF ADMISSION

Muhlenberg grants admission to regular decision candidates by April 1, contingent upon the successful completion of their senior year. The College subscribes to the National Candidate's Reply Date of May 1 for confirmation of enrollment.

ENROLLMENT CONFIRMATION

In order to confirm their enrollment, students accepting the College's offer of admission must submit a non-refundable \$400 reservation deposit (to be credited to the first semester's tuition) by the May 1 Reply Date. Students must also return a signed honor pledge indicating their commitment to abide by Muhlenberg's Academic Behavior Code. This code, which embraces all areas and activities of the academic life of the College, stands as an emblem of the personal integrity and honest dealing which Muhlenberg expects from each of its students. In addition, students must return a signed pledge indicating their commitment to abide by the College's Social Code. Both of these codes are mailed to students at the point of acceptance. Students wishing to obtain copies of the codes in advance of acceptance can do so by requesting copies from the Office of Admission.

ADVANCED PLACEMENT

Students who obtain an Advanced Placement (AP) score of 4 (well qualified) or 5 (extremely well qualified) will receive a course unit credit in the appropriate discipline that will apply toward one of the 34 course units required for graduation and satisfy the corresponding general academic requirement at Muhlenberg. Some departments apply AP credits toward their major requirements; some do not. Students who later choose to or are required to register for the equivalent course will lose the AP credit.

Students who obtain an AP score of 3 (qualified) on the following tests may be exempted from an introductory course and may opt to enter an advanced course (if available) but no course units are earned: Biology, Computer Science (either test), French (Language, Literature), German, Spanish (Language, Literature), Latin (either test), Mathematics (either test), Music, and Physics (A.B. degree candidates only). Subject to departmental review, students who obtain an Advanced Placement score of 3 (qualified) on other AP tests may in some circumstances receive a course unit credit or course exemption.

INTERNATIONAL BACCALAUREATE PROGRAM (IB)

Muhlenberg College will award course units and the fulfillment of general academic requirements for courses and exams taken through the International Baccalaureate Program as follows:

- Anthropology:** 1 course unit equivalent to ATH 112 Cultural Anthropology for a score of 6 or 7 on the higher level exam.
- Biology:** 2 course units equivalent to BIO 150 Principles of Biology I: Organisms & Populations and BIO 151 Principles of Biology II: Cells & Organisms for a score of 6 or 7 on the higher level exam.
- Business:** 1 course unit for a score of 6 or 7 on the higher level exam.
- Chemistry:** 1 course unit equivalent to CHM 100 Introduction to Chemistry for a score of 6 or 7 on the higher level exam.
- Economics:** 1 course unit for a score of 6 or 7 on the higher level exam; students must consult the department head about equivalent course and about enrollment in additional economic courses.
- English:** 1 course unit for a grade of 5 or better on the higher level exam.
- Foreign Languages:**
- Language A1: 1 course unit equivalent to Language 204 for a score of 4 or better on the higher level exam or a score of 5 or better on the standard level exam.
- Language B: 1 course unit for Language 301 or 302 for a score of 4 or better on the higher level exam; 1 course unit for Language 303 or 304 for a score of 5 or better on the standard level exam.
- Language ab Initio: 1 course unit for Language 204 for a score of 5 or better on the standard level exam.
- History:** 1 course unit equivalent to HST 100-149 Introduction to History for a score of 6 or 7 on the higher level exam.
- Mathematics:** 1 course unit equivalent to MTH 121 Calculus I for a score of 6 or 7 on the higher level exam.
- Music:** 1 course unit equivalent to MUS 111 Music Theory I for a score of 6 or 7 on the higher level exam.
- Philosophy:** 1 course unit for a score of 5 or better on the higher level exam; 1 course unit for a score of 6 or better on the standard level exam.
- Physics:** 2 course units equivalent to PHY 121 General Physics I and PHY 122 General Physics II for a score of 6 or 7 on the higher level exam;

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1 course unit equivalent to PHY 105 Physics for Life for a score of 5 on the higher level exam.

Psychology: 1 course unit equivalent to PSY 101 Introductory Psychology for a score of 6 or 7 on the higher level exam.

Theatre: 1 course unit for a score of 6 or 7 on the higher level exam.

Some departments count IB credit toward their major requirements; some do not. Please consult with the appropriate department chair. Students who later chose to or are required to register for the equivalent courses will lose the IB credit.

ADMISSION OF TRANSFER STUDENTS

The College accepts a limited number of transfer students for entrance in both semesters of the academic year. Transfer candidates must submit a formal application, a transcript of previous college work, a statement of honorable dismissal from their previous institution, a complete secondary school record, two teacher references, and results from all College Entrance Examination Board tests previously taken. All appropriate forms are included with the application materials. In addition, an interview is required of all transfer applicants and must be completed by the appropriate application deadline.

A minimum of 17 courses must be successfully completed through Muhlenberg toward the 34 course units required for a degree from the College. Each course completed at another institution is evaluated individually as to its transferability.

Applications for transfer must be filed by the preceding June 15 for fall semester entrance and by December 10 for spring semester entrance. Decisions regarding transfer applications are usually announced during the months of June and December. If the current semester's grades are required for evaluation, the applicant will be so informed and the admission decision will be made as soon as possible after receipt of the grade report or transcript.

COMMUNITY COLLEGES

Agreements with Lehigh Carbon Community College and Northampton Community College allow students to apply for admission to Muhlenberg at the time of admission to the community college. Upon completion of their work at the community college, students accepted into this program who have earned a grade point average of 3.000 or greater and who meet all other requirements, may enroll at Muhlenberg to pursue a bachelor's degree. The completion of degree requirements is facilitated through the joint counseling provided. Regulations governing transfer work apply (see "Transfer Courses," page 42).

Expenses



Muhlenberg endeavors, within the limits of available funds, to offer its educational opportunities to all who qualify for admission regardless of economic circumstances. Through the income from its endowment and through annual contributions from its alumni and friends, the College has been able to keep its fees well below the actual cost of educating each student.

EXPENSES, TUITION, AND FEES

CHARGES FOR STUDENTS ENROLLING DURING ACADEMIC YEAR 2007-2008 (FALL 2007, SPRING 2008)

Comprehensive Fee.....	\$32,850
Student Activity Fee	240
Total Comprehensive Fee	33,090
(One half payable in July and the other half in January)	
Room: Standard.....	4,480
Single Room	5,170
Taylor Hall/Leased	4,980
New MacGregor Double	5,035
Robertson and South Halls/MILE/New MacGregor Single	5,940
Board: Streamliner (19 meals per week/semester)	3,310
Independence (15 meals + 150 Dining Dollars/semester)	2,995
Muhlenberg Express (7 meals per week/semester).....	1,520
Advantage 200 (200 meals + 50 Dining Dollars/semester)	3,335
Advantage 250 (250 meals + 50 Dining Dollars/semester)	3,460
Freedom (Unlimited meals + 200 Dining Dollars/semester).....	3,825

MISCELLANEOUS FEES AND DEPOSITS*

Fees Per Course Unit.....	3,865
(For students enrolling less than 3 or greater than 5.5 course units. See Course Load policy.)	
Individual Applied Music Fees, 13 forty-five minute lessons per semester.....	400
Class Applied Music Fees, 13 forty-five minute lessons per semester	200
Academic Transcript, each.....	5
(See Release of Information from Academic Records, including Transcripts.)	
Student Teaching (per semester – not refundable)	335
Audit – Day (per course unit).....	1,932.50
Audit – Evening (per course unit)	572.50
Application (not refundable)	50
Penalty Fee (failure to make payment as required)	100
Orientation fee.....	120
Overload charge per ½ unit	1,932.50
Student Computer Network Configuration (Optional).....	65

* The College reserves the right to adjust fees at any time without notice.

DINING SERVICE

The dining experience at Muhlenberg College offers students variety, convenience, and flexibility.

The Lifestyles Meal Program was designed with valuable input from our students to meet the changing needs of life both on campus and off. Six unique meal plans offer every student a choice. Whether you're looking for three square meals a day or a snack between meals, there is a meal plan to meet your needs.

With five dining venues on campus, three open seven days a week, we offer everything from home cooked style meals to a snack you can grab and take back to your room. If you crave a slice of pizza after dinner, a fruit smoothie after a workout, or prefer having dinner in our spacious dining room with your friends, our facilities offer all these options.

All resident students are required to be on a meal plan. First year students must select either the Streamliner, Freedom, or Advantage 250 meal plan. Students residing in MacGregor Village, MILE properties, Tremont Apartments, and off campus are not required to be on a meal plan, but can if they so choose.

Students may not deviate from the pre-planned menu unless the Director of Student Health Services confirms that it is required for medical reasons.

Non-participation in the College meal plan due to medical reasons must be approved by the Director of Student Health Services before the start of each semester. If confirmation is not received before the start of classes for each semester, students will be billed for the meals on a daily basis until such approval is received.

Each student who is a member of the meal plan will use their Berg ID in the campus dining venues. Berg ID cards are non-transferable, and use of the card by a person other than the one to whom it is issued is not permitted. If the card is lost, it must be reported immediately to Campus Safety.

REFUND POLICY

The College has adopted the following regulations with respect to refunds and rebates due to the withdrawal, suspension, or expulsion of a student during the semester. Where voluntary withdrawal occurs, \$200 of the comprehensive fee will be retained. In addition and in cases of suspension or expulsion, the College is entitled to a portion of the remaining comprehensive fee in accordance with the following schedule:

- 20 percent if withdrawal occurs during first week;
- 40 percent if withdrawal occurs during second week;
- 60 percent if withdrawal occurs during third week;
- 80 percent if withdrawal occurs during fourth week;
- 100 percent if withdrawal occurs after the fourth week.

Note: Student aid, which must be returned to the awarding agency, cannot be used to satisfy amounts owed to the College.

Withdrawal due to medical reasons approved by the Director of Student Health Services may entitle a student to a pro rata refund of the comprehensive fee. The amount to be refunded, if any, will be decided based upon merit. The following fees and deposits are not refundable: application fee, matriculation fee, orientation fee, reservation deposit for admission, room reservation deposit, and room fees.

Board Fee: In all cases of withdrawal, a refund of the contract portion of the board fee will be made in proportion of the number of unexpired full weeks remaining, provided the refund is applied for at the time of withdrawal from the College and the student meal plan is surrendered.

Flex Dollars: Unused flex dollars will be refunded to a withdrawn student.

Room Fee: A student withdrawing from the College during the semester will receive a refund of room fees only if a replacement, not already residing in the College residential system, is obtained for the room.

The Financial Aid Office is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out, are dismissed, or take a leave of

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absence prior to completing 60% of a payment period or term. The federal Title IV financial aid programs must be recalculated in these situations.

If a student leaves the institution prior to completing 60% of a payment period or term, the financial aid office recalculates eligibility for Title IV funds. Recalculation is based on the percentage of earned aid using the following Federal Return of the Title IV funds formula:

Percentage of payment period or term completed = the number of days completed up to the withdrawal date divided by the total days in the payment period or term. (Any break of five days or more is not counted as part of the days in the term.) This percentage is also the percentage of earned aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula:

Aid to be returned = (100% of the aid that could not be disbursed minus the percentage of earned aid) multiplied by the total amount of aid that could have been disbursed during the payment period or term.

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds and the student would be required to return a portion of the funds. Keep in mind that when Title IV funds are returned, the student borrower may owe a debit balance to the institution.

If a student earned more aid than was disbursed to him/her, the institution would owe the student a post-withdrawal disbursement which must be paid within 120 days of the student's withdrawal.

Refunds are allocated in the following order:

- Unsubsidized Federal Stafford Loans
- Subsidized Federal Stafford Loans
- Unsubsidized Direct Stafford Loans (other than PLUS loans)
- Subsidized Direct Stafford Loans
- Federal Perkins Loans
- Federal Parent (PLUS) Loans
- Direct PLUS Loans
- Federal Pell Grants for which a Return of funds is required
- Federal Supplemental Opportunity Grants for which a Return of funds is required
- Other assistance under the Title for which a Return of funds is required (e.g., LEAP)

FINANCIAL OBLIGATIONS

The comprehensive fee, room and board, and other charges incurred by the student, regardless of nature, must be paid consistent with established due dates. Students with outstanding obligations will not be permitted to register, change enrollment status, release transcripts, or participate in commencement exercises until all commitments are met.

STUDENT PAYROLL CHECKS AND CHECK CASHING

For proper identification, students must present their Berg ID Card prior to receiving a student payroll check or before cashing a check through the College. No other form of identification will be accepted.

INSURANCE

The College does not carry fire, burglary, theft, or other kinds of insurance to cover the personal possessions of students. It is suggested that such coverage be included in policies carried by parents or be purchased through a separate insurance policy.

All students are required to have health insurance while attending Muhlenberg College. An accident insurance policy is provided for full-time students. A brochure explaining the accident plan is made available to each student.

Financial Aid



Muhlenberg College believes that the primary responsibility for financing a college education rests with the parents and the student. Consequently, the majority of assistance is awarded on the basis of financial need together with demonstrated and potential academic and nonacademic achievement.

The primary purpose of Muhlenberg's financial aid program is to provide counseling and assistance to those students who, without such aid, would be unable to attend the College. The program assists full-time students (those enrolled for a minimum of 3 course units per semester) in meeting their costs through institutional scholarships, grants and student employment, and the three campus-based federal programs: Federal Supplemental Educational Opportunity Grant (FSEOG), Federal Perkins Loans, and Federal Work Study (FWS). The program also distributes information on and processes all outside federal programs, state grants, and other scholarships. Candidates for financial aid will be considered for any form or combination of forms of assistance. Consideration follows Muhlenberg College's policy of nondiscrimination on the basis of race, color, religion, national or ethnic origin, sex, sexual orientation, disability, or age as defined by law.

BASIS FOR FINANCIAL AID

Because each family's financial situation is unique, the Office of Financial Aid carefully studies the need analysis that it receives from the College Scholarship Service and the Federal Processor. It begins by determining a reasonable student budget that includes expenses to cover tuition, room and board, books and supplies, personal expenses, and travel. Next, it compares this budget with the family's income, assets, and the student's earnings and savings contribution. The difference between college costs and the amount that the whole family can reasonably afford equals the financial need.

If financial need is established, the Office of Financial Aid awards aid to the extent that funds are available. The aid package usually includes a combination of grant, loan, and employment opportunity. The office will also assess the student's eligibility to receive funds from such outside sources as federal and state grants, loans, and private scholarship or grant programs. Early in the senior year, high school students should ask their school guidance counselor about the various applications for these programs.

Financial Aid awards are given out for each academic year. Students must reapply each year by the stated deadlines in order to receive need-based awards in subsequent academic years. Renewals are based upon financial need from the FAFSA and other required documents, academic performance, positive contributions to the College and surrounding community, standing within the College's Social Judicial System, and the availability of funds. Students who have a negative impact on the campus community through their behavior may jeopardize their institutional grant awards. Need-based financial aid is subject to change each year due to changes in the family's financial circumstances. (See "Important Facts About Financial Aid" brochure.)

FINANCIAL AID APPLICATION PROCEDURES

Prospective Students: A candidate for the first-year class who desires financial assistance should complete the College Scholarship Service (CSS) financial aid PROFILE form and Free Application for Federal Student Aid (FAFSA) no later than February 15. A Muhlenberg College Application for Financial Aid and a signed copy of the parents' and students' 2006 IRS 1040 Tax Return and W2 Form(s) must be submitted to the Office of Financial Aid by March 1. Late applications will be considered only if funds are available. The financial aid PROFILE form and FAFSA are on the financial aid section of the Muhlenberg website. If all forms are received on time, first-year students will be informed of their aid decision by early April. These decisions are made only after affirmative admissions decisions have been reached.

Transfer Students: Transfer candidates are placed on a wait list for financial aid. Only after returning upperclass students and incoming first-year students are awarded will financial aid transfer candidates be considered for aid. Transfer candidates must complete the financial aid PROFILE form and FAFSA by March 15. A Muhlenberg College Application for Financial Aid and a signed copy of the parents' and student's 2006 IRS 1040 Tax Return and W2 Form(s) must be submitted to the Office of Financial Aid by April 15.

Continuing Students: Upperclass students applying for aid should obtain a packet of renewal aid forms before the mid-year break from the Office of Financial Aid. The Free Application for Federal Student Aid (FAFSA) must be completed by April 15. A Muhlenberg College Application for Financial Aid and a signed copy of the parents' and student's 2006 IRS 1040 Tax Return and W2 Form(s) must be submitted to the Office of Financial Aid, also by April 15. If all forms are received on time, upperclass

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students should be informed of their aid decisions in early June. You may contact the Office of Financial Aid for the penalties regarding filing your forms late.

Independent Students: Students wishing to apply as independents must first consult with the Director of Financial Aid to see if they qualify for that status.

Study Abroad Programs: Students participating in the Muhlenberg International Student Exchange Program (ISEP) or a Lehigh Valley Association of Independent Colleges program may receive federal and Muhlenberg financial aid and should adhere to the requirements and deadlines for upperclass students. Muhlenberg offers grants to students in other approved programs on a competitive basis. In addition, if the courses taken elsewhere are offered through Muhlenberg College, eligible students may also qualify for federal grants and loans.

TYPES OF AID AWARDED BY THE COLLEGE

Muhlenberg College Grants: Grant or scholarship funds awarded by the College are gifts that do not have to be repaid. Recipients must demonstrate a financial need, continue to make satisfactory academic progress, and show promise in the areas of campus contributions and college citizenship.

Campus Employment: Priority for on-campus employment goes to students with financial need and is awarded as part of the financial aid package. The Office of Financial Aid manages the program, but students are responsible for obtaining the positions for themselves. The student is paid by check on a monthly basis.

Merit Scholarships: The College also awards various merit scholarships to selected first-year students who demonstrate the potential for outstanding academic achievement. Recipients are to be notified of their selection by April of each year. The awards will be without regard to financial need and will be renewed provided that a 3.000 grade point average is achieved by the end of the second year.

Ministerial Grants: Regardless of need, dependent sons and daughters of Lutheran pastors and pastors of other denominations with whom the Lutheran Church shares full communion are eligible for grants. The College requires eligible students to file the appropriate financial aid applications. Deadlines and procedures for filing are the same as outlined for financial aid applicants. If a student is awarded a Ministerial Grant and also receives federal assistance, the Ministerial Grant may have to be reduced if the total aid received results in an over-award of aid. In October 1992, the Ministerial Grant changed. The minimum grant a student can receive is \$2,000. If the student demonstrates financial need, the student will receive additional grant assistance up to half the comprehensive fee.

Honors Programs: Students with a combined SAT score of 1300 (Critical Reading and Math) or above and who rank in the top 10 percent of their class are considered for one of three honors programs—Muhlenberg Scholar, Dana Associates, or RJ Fellows.

Each program provides an enriched academic experience with special seminars and research opportunities. Beginning Fall 2007, each program also carries a \$4,000 annual stipend.

Federal Supplemental Educational Opportunity Grants (FSEOG): The Supplemental Educational Opportunity Grant is a federal grant awarded through Muhlenberg College. It is reserved for students who receive Pell Grants and may range from \$100-\$4,000 per year.

Federal Perkins Loan: The Federal Perkins Loan is a federal low interest (5 percent) loan awarded through Muhlenberg College to students with financial need. Students are limited to \$3,000 per year and a \$15,000 total for their education at Muhlenberg. Repayment of the loan begins six or nine months (depending upon date of initial borrowing) after the borrower ceases full or half-time study. The 5 percent interest starts at the beginning of the repayment period.

Federal College Work-Study Program (FWS): This federal program provides students with jobs on campus. Within limitations established by federal guidelines, the College determines weekly hours and wages. Placement is similar to the Muhlenberg campus employment program but is reserved for students with financial need.

OUTSIDE ASSISTANCE FROM FEDERAL, STATE, OR PRIVATE SOURCES

Pell Grant: This is a federal grant made available to eligible students with financial need. The application process takes place through the FAFSA. After filing the FAFSA, the student will receive a Student Aid Report (SAR). This SAR will be used by the Office of Financial Aid for determination of the award. This application must be renewed each year.

State Grant Programs: Consult your secondary school counselor to determine the extent of grant support furnished by your state. Residents of Pennsylvania may qualify for up to \$3,500 per year in grant funds from the Pennsylvania Higher Education Assistance Agency (PHEAA). Other states have similar programs. Some states allow you to apply for state grant assistance using the FAFSA and others utilize a separate application. Be sure to complete the correct application for state grant assistance.

Stafford Loans: Most states also support their own Stafford Loan Program, allowing students with financial need to borrow from \$2,625 to \$5,500 annually with low interest and deferred repayment. The maximum you can borrow for undergraduate study is \$23,000. Application instructions are available from the Office of Financial Aid. Independent students may also borrow up to an additional \$4,000-\$5,000 unsubsidized Stafford Loan.

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Restricted Scholarships: Students may also qualify for some of the restricted scholarships administered through the Office of Financial Aid. A list of the available scholarships is on the Muhlenberg Financial Aid Application.

Other Sources of Aid: In addition to the programs mentioned above, students should investigate other grant and scholarship programs sponsored by a variety of private organizations, including business corporations, foundations, civic clubs, etc. Check with your high school guidance counselor for a list of local organizations.

SOURCES OF ASSISTANCE NOT BASED ON NEED

PLUS: These loans are meant to provide additional funds for educational expenses. Like Stafford Loans, they are made by a lender such as a bank, credit union, or savings and loan association. Parents of dependent students may borrow up to the cost of attendance minus all financial aid.

Army ROTC Scholarships: Muhlenberg students are able to participate in this program at Lehigh University. Students enrolled in the Army program can apply for scholarships that could cover some or all of the comprehensive fee, an allowance for books and supplies, and a monthly stipend for personal expenses. Information on the program may be obtained by contacting your guidance counselor or the Department of Military Science at Lehigh University (<http://www.lehigh.edu/~inmil/>).

Payment plans: The College also offers a 10-month payment plan. Contact the Office of Financial Aid for further information.

REGULATIONS GOVERNING AID

1. To provide for the fullest use of the College's resources, students are required to apply for all outside awards for which they may be eligible.
2. Muhlenberg College students on financial aid, including merit scholarship recipients, are required to report their outside awards to the Office of Financial Aid as soon as they are notified of them. No amount of aid, including outside awards and merit scholarships, can ever exceed Muhlenberg's cost of attendance. If necessary, adjustments to Muhlenberg financial aid awards will occur only to the self help portion (federal loans, student employment) for the first \$6,000 a student receives in outside scholarships. Once a student exceeds a total of \$6,000 in outside scholarships, a dollar for dollar reduction in need based Muhlenberg College Grant will occur.
3. Students receiving federal or Muhlenberg College financial aid must make *satisfactory academic progress* to retain their awards. (Federal funds include Pell Grants, Federal Supplemental Grants [FSEOG], Work-Study Program [FWS], Federal Perkins Loans, the Stafford Loan Program, and the Federal Parent Loan for Undergraduate Students [PLUS]). If the student fails to maintain the

institutional standards outlined in this section, the student is considered to not be making *satisfactory academic progress* and will lose aid until the standards are met.

First-year students will have a full academic year to meet the minimum standards for satisfactory academic progress. However, should they fail to meet the standards after their first semester, a warning letter will be sent to them explaining the consequences should they fail to meet the minimum standards after their second semester.

Upon formal petition to the Committee on Financial Aid, exceptions may be granted for unusual circumstances. These standards relate only to the awarding of financial aid. (See Academic Difficulty.)

Should circumstances warrant that students need additional time to complete their college requirements beyond the four years, financial aid may be available provided that satisfactory academic progress is being made. Students should contact the Office of Financial Aid for more information. Be aware, however, Muhlenberg College will only provide institutional aid for eight semesters.

4. Some families may be selected for a process called Verification. Once notified of this selection, the family has 30 days to complete the verification process. Until the process is completed, no aid can be deducted from the student's bill.
5. Muhlenberg College funds are awarded only to traditional full-time day degree students for a maximum of eight semesters.
6. Muhlenberg College aid may be cancelled as a result of disciplinary suspension or expulsion, academic dismissal, or withdrawal. Any aid recipient wishing to withdraw from a course(s) or from the College should review the impact of the withdrawal on awards with the Director of Financial Aid.
7. The Tax Reform Act of 1986 states that financial aid grant awards (money that does not have to be repaid) in excess of the cost of tuition, fees, books, and equipment are subject to federal income tax.
8. The Omnibus Drug Initiative Act of 1988 allows a student's eligibility for federal aid to be suspended if the student has been convicted of selling or possessing drugs.

SATISFACTORY ACADEMIC PROGRESS STANDARDS

All students are expected to maintain satisfactory academic progress defined as the minimum cumulative GPA shown in the chart below. Students who fall below these standards are reviewed by the Academic Progress Committee to determine academic standing and extenuating circumstances.

Eligibility for federal/state aid may also be affected by academic progress. Aid will be reinstated once the student has achieved satisfactory academic progress per APC and has submitted the required documents for financial aid consideration.

Appeals: Any student who has been denied financial aid may appeal the decision. Request for reconsideration must be submitted in writing to the director of financial aid and include supporting documentation. Reconsideration will be based on the merit of the appeal and is subject to availability of funds and a GPA comparable to the all-College average.

Courses Attempted (includes transfer courses)	Minimum Graduation Units	Minimum GPA
4	3	1.200
8	6	1.400
13	10	1.700
17	14	2.000
20	17	2.000
25	21	2.000
29	25	2.000
34	30	2.000

ADDITIONAL SERVICES AVAILABLE

Students who have demonstrated exceptional need at Muhlenberg may request the Director of Financial Aid to write an application fee waiver letter to various graduate or professional schools.

Waivers of Graduate Record Examination (GRE) fees are available for students whose calculated parental contribution towards their Muhlenberg education is \$900 or less.

Deferrals of residence hall deposits are available for eligible students.

Student Affairs and Campus Life



College years are a great opportunity for student growth and development. Students learn about themselves and others and each must learn how to relate to individuals and groups with vastly different backgrounds, interests, beliefs, attitudes, and values. Not only is the tolerance of differences expected, but an appreciation and a celebration of these differences is an important outcome of the student's experience. In addition, the student must progress toward self-reliance and independence tempered by a concern for social responsibility.

Efforts to establish and promote such growth and development may be direct or indirect. Counseling and programming serve as clear examples of the direct influences designed to enhance the developmental process, while the general social and intellectual atmosphere of a campus spurred by the role modeling of faculty, staff, and campus student leaders serve as examples of the indirect influences. Importantly, individuals must seek opportunities to really learn about themselves and others.

The student affairs staff provides students with the opportunity to face the challenge of growth and development. This is done in the residence halls, in athletics, in the health and counseling centers, in student activities, and across the campus.

ACADEMIC RESOURCE CENTER

The Academic Resource Center offers a number of services which assist students' efforts to successfully navigate the rigors of competitive higher education, to develop independent critical thinking, to learn to express ideas with clarity, and to become committed to academic excellence. The office provides a variety of resources to accomplish its mission. The award-winning Peer Tutoring Program is the keystone of our services; peer tutors are powerful agents of change. Peer tutoring is offered to all full-time day students. We utilize peer tutors in several ways, including individual tutoring, content workshops, learning assistants in the classroom, tutor training, and in first-year study skills seminars.

Peer tutoring is provided by students who have been recommended by the faculty and then selected and trained. Muhlenberg College's Peer Tutoring program is certified by the College Reading and Learning Association to the Master Tutor Level. Tutoring is available in most subject areas through individual or small group sessions. Full-time day students who wish to receive tutoring should fill out an application in the Academic Resource Center before the seventh week of the semester. A student may receive tutoring from one to two hours per week, per subject area, based on academic need and tutor availability.

In addition to the nationally recognized tutoring program, the Academic Resource Center includes three professional Learning Specialists who help students become better aware of themselves as learners. The developmental concerns of traditional students evolve during their four years. Our services are based upon current research and practices in developmental education and cognitive science, and our programs are structured to accommodate students' changing needs.

ATHLETICS AND PHYSICAL EDUCATION

Physical development is an important part of a liberal arts education. Muhlenberg has a vibrant athletic program on the intercollegiate, intramural, and recreational levels. These programs emphasize the lifelong value of sports, fitness/wellness, and the thrill of competition.

The physical education program emphasizes the principles of fitness and healthy living. All students develop a greater understanding of optimal well-being through a core physical education course entitled Principles of Fitness and Wellness.

The Life Sports Center is the center of athletic and recreational activity. Facilities include a six-lane, 25-meter swimming pool; racquetball courts; and wrestling room and feature a large, recently renovated, multi-use field house for indoor tennis, track, basketball, and volleyball. A 47,000 square foot health and fitness addition was completed in August 2004. It includes state-of-the-art weight training and cardio fitness areas available to all students as well as new locker room facilities for varsity athletes, training and equipment issue rooms, and athletics offices. The facility overlooks a lighted artificial turf stadium with 8-lane track and lighted practice and playing fields, all of which support intercollegiate athletics and recreational programming.

Muhlenberg boasts 22 varsity sports, including eleven for men (football, soccer, cross-country, basketball, wrestling, baseball, indoor and outdoor track, golf, tennis, and lacrosse) and eleven for women (field hockey, soccer, volleyball, cross-country, basketball, softball, lacrosse, indoor and outdoor track, tennis, and golf). Men's, women's, and co-recreational intramural and recreational programming are available throughout the year. Muhlenberg's varsity teams compete in the Centennial Conference, which includes Bryn Mawr, Dickinson, Franklin and Marshall, Gettysburg, Johns Hopkins, Haverford, and Swarthmore, among others. Non-

conference opponents include Messiah, Drew, Susquehanna, MIT, Vassar, U.S.M.M.A. (King's Point), and Washington & Lee.

CAMPUS SAFETY AND SECURITY

The Department of Campus Safety and Security provides 24-hour security coverage of the Muhlenberg campus every day of the year. The department insures a safe and secure campus consistent with the educational mission of the College. Campus Safety officers are commissioned police officers of the Commonwealth of Pennsylvania. They have all the powers of arrest and investigation on Muhlenberg College property and adjacent streets as any municipal police officer. A primary goal of the Department of Campus Safety and Security is to help students. Whether it involves escorting a student late at night or investigating an incident, Campus Safety officers at Muhlenberg help students and preserve a harmonious environment. They perform their duties with style, grace, and professionalism while maintaining a strong sense of protection on campus. In doing so the officers are a vital part of the Muhlenberg College community.

THE CAREER CENTER

The Career Center promotes career development by encouraging students to integrate their academic and co-curricular experiences and inspiring them to:

EXPLORE – increase awareness of interests, skills, and values; gather information and experience to assist with informed decision making; promote curiosity about the world in anticipation of lives of leadership and service.

PREPARE – develop tools, strategies, skills, and knowledge related to goals; improve ability to understand and communicate the value of an aggregate Muhlenberg experience; consider the challenges of college to career transition and plan for lifelong learning.

CONNECT – network with and obtain information from people, organizations, information, and other resources that will help students meet career goals.

To support its mission, the Center offers numerous programs and services for students.

The Career Center targets first-year students for many of its programs since exploration and planning are recommended over a four-year timeline. Students are encouraged to visit the Center as early as possible and individual appointments are available with the career counselors. In these sessions, students may choose to discuss topics such as choosing majors, determining career goals, or finding a job or internship. Pre-law advising is also available.

The Career Center sponsors programs that expose students to working professionals and the world beyond college. Discussions with guest speakers during events, such as “Alumni in the Classroom Week”, give students the chance to learn about a variety of fields. The Muhlenberg Career Network enables students to meet and gain advice from alumni in careers ranging from banking and writing to research and teaching. Students may participate in the Muhlenberg Shadow Program which links students with alumni in work or graduate/professional school.

Part-time, off-campus, and summer job opportunities are listed in the Center’s Career Resource Library. Internships are available for students seeking work experience related to their career interests. These are listed in “Career Connections”, the Center’s online database to which all traditional students have an account. Wescoe School students can call the office to gain access.

The Career Center offers workshops on career decision-making, choosing a major, writing graduate school essays, resume writing, developing job-search strategies, finding summer jobs/internships, networking, and college-to-career transition. “Dine for Success,” mock interview programs, and the annual Career Conference are just a few of the innovative programs that prepare students and provide pertinent information. A comprehensive “Gearing Up for Graduate School” event provides students with necessary information to be competitive in the application process.

The Center also takes an active approach to help students identify potential employers. Each year representatives from a variety of fields come to campus to interview seniors for full-time employment. Through the “Jobs Available Now” program, hundreds of positions are entered into the Career Connections database for students to access. In addition, links from the Career Center’s web page (www.muhlenberg.edu/careercenter/) help students learn about thousands of other opportunities. We also hold internship and job fairs on campus.

COMMUNITY SERVICE AND OUTREACH

The Office of Community Service at Muhlenberg College promotes civic awareness and provides support and resources for students and student organizations interested in community outreach. Students work with the homeless, youth, and elderly, as well as agencies committed to the environment. It is these experiences that help students establish a sense of civic responsibility that will be a part of their life long after they graduate.

One of the ways this is done is through service to the Allentown area school district where our students volunteer as tutors in schools, shelters, and after-school programs. Not only do they provide support to struggling students, but they also are advocates for equitable funding for education.

Our outreach is not limited to education. Muhlenberg students volunteer with recent immigrants, hospice patients, and adults with mental illness. The Office of

Community Service works to help students find service opportunities that are meaningful and that allow for personal growth and leadership development. Many of these are the service learning component of a regular academic course.

Providing service opportunities for students is just one of the many ways Muhlenberg produces graduates well prepared for leadership in their careers and communities.

COUNSELING SERVICES

The Counseling Program at Muhlenberg is designed to meet the needs of individual students for short-term counseling for normal developmental issues, such as homesickness or relationship problems, and for reactive concerns, such as depression or anxiety. Counseling may take the form of individual or group sessions or informative prevention programming on such topics as stress management, relationships, or building self-confidence. Counseling Services also provides alcohol and other drug assessments, treatment, and prevention programming. All staff members are licensed professionals.

Counseling staff members are also available to provide consultations regarding issues or concerns that may be presenting problems for a student or a friend. Consultations are available in person or by telephone on a formal or informal basis to full-time (day) students.

Counseling Services at Muhlenberg College is governed by legal and ethical standards regarding confidentiality. Any and all participation at the Counseling Center is strictly confidential; any student wishing information to be released to parents, administrators, etc. must sign a release of information form indicating this intent and authorizing the release. All services provided to full-time students are of no cost to the student or to his/her family. Sessions are by appointment which can be scheduled by calling extension 3178. Counseling Services is open Monday through Friday 9AM to 5PM and a counselor is “on call” to handle emergency/crisis situations at all times during the academic year.

DINING SERVICES

Sodexo Campus Services is the contract foodservice company at Muhlenberg College. Sodexo has been serving Muhlenberg students since the 1940’s, and in collaboration with Muhlenberg, makes dining at Muhlenberg an enjoyable experience for students.

Dining services for students on a meal plan are provided at three venues in the Student Union: The General’s Quarters, The Garden Room, and Sandella’s, our new addition to dining options. The General’s Quarters provides food court style service and features a grill, a deli, and an action station in addition to salads, baked goods, and beverages. It is open to serve students breakfast, lunch, dinner, and late night snacks, closing at midnight five days a week and open until 3:00 a.m. on Friday and Saturday.

The Garden Room is Muhlenberg's more traditional student restaurant, serving in an all-you-can eat setting and offering lunch and dinner during traditional meal times. Students can choose from various prepared dishes such as chicken potpie, lasagna, and carved meats at dinner and brunch on the weekend. Sandella's, located in the Red Door, offers made-to-order kosher flatbread quesadilla's, pizza, panini sandwiches, salads, and grab and go desserts and is open for lunch and dinner.

Students may also purchase food and beverages at Java Joe in the Student Union and The Powerhouse, a café located in the Life Sports Center. Java Joe offers a variety of hot and cold beverages and baked goods and features a specialty sandwich of the day. The Powerhouse offers grab and go sandwiches and salads, hot and cold beverages and baked goods and features a soup of the day and many menu items with fitness in mind. Purchases at Java Joe and The Power House may be made using cash or flex. Students on a meal plan that includes dining dollars may use their dining dollars at Java Joe and The Powerhouse café.

GREEK LIFE

Greek life at Muhlenberg College consists of eight (8) nationally or internationally affiliated Greek-letter organizations. Each chapter traditionally holds membership recruitment and education programs in the fall of each year. Students interested in becoming members must meet or exceed certain standards, both behaviorally and academically.

Being a member of a Greek organization provides a host of benefits, including the opportunity to develop and refine leadership skills, participate in local community service and national philanthropic projects, and form lifelong friendships within an international brotherhood or sisterhood. Members of the Greek system can boast of involvement in practically every facet of campus life and support many campus initiatives. The Greek system strives to provide for its members growth-oriented opportunities and experiences that are consistent with the mission of the college.

Contact: Chris Jachimowicz, Director of Student Leadership Development, Lower Level, Seegers Union, 484.664.3733

HEALTH SERVICES

The Health Center is a primary care facility offering health care to full-time (day) students of the Muhlenberg College community. Health care is provided by qualified professionals who have completed state approved educational programs and are licensed to practice their profession in the Commonwealth of Pennsylvania. The Health Center provides a listing of consulting physicians for specialty treatment when this expertise becomes necessary. The students are assisted in securing consultations as appropriate.

The primary services offered by the Center include health promotion and disease prevention, health counseling, selected care during acute phases of illness, and referrals to health care sites outside the College setting as deemed necessary by the student's needs. The staff of the Health Center is committed to serve as educators; students are assisted with concepts of self care and encouraged to become educated consumers of health care.

All students must submit a completed medical form to the Health Center in accordance with the College's stated deadline. In addition, enrolled students must demonstrate tuberculin testing and immunization against rubeola, rubella, tetanus, diphtheria, mumps, and poliomyelitis. Proof of varicella is required with two properly spaced doses of varicella vaccine, laboratory evidence of immunity, or a reliable history of varicella. It is also required that the Hepatitis B vaccine series be initiated or completed with three doses. Laboratory evidence of Hepatitis B immunity is acceptable. Students residing in college-owned housing are required to have at least one dose of the meningococcal A/C/Y/W-135 vaccine or a signed waiver declining the vaccine after being given literature on the vaccine and the disease.

The College supports the immunization recommendations of the Pennsylvania Department of Health-Bureau of Communicable Diseases Division. Failure to submit this health form with the necessary documentation including proof of immunizations will result in denied admission to the residence hall.

The College provides a limited secondary insurance policy (for accidents only) on all students for services provided outside the Health Center. It is strongly suggested that students have primary health insurance inclusive of sickness/hospitalization. Students are responsible for any and all charges associated with care, treatment, laboratory studies, and medications. Students are responsible for understanding all terms of their health insurance policy and notifying Health Center personnel of participating providers within their health insurance network.

HOUSING

First-year students must live on campus. Assignment of rooms in the residence halls is made by the Residential Services staff. Rooms are designated, for the most part, on a first-come, first-served basis according to the date the commitment card and deposit are received by the Admissions Office. Roommates are assigned based on information provided by the student on the Room and Board Application Card.

Upperclass students, in compliance with lottery processes, may elect to live on-campus or in a fraternity or sorority. Upperclass students wishing to live off-campus must apply prior to the room selection lottery. Students admitted as commuters may live on campus if space is available in the residence halls. Transfer students will be housed as space permits on a first-come, first-served basis.

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Housing for students consists of six traditional residence halls, group interest housing, four sororities, four fraternities, the MILE (Muhlenberg Independent Living Experience) program, the Village apartment complex, and the suite-styled Benfer, Robertson, and South Halls. Brown Hall houses women exclusively, while Benfer, East, Martin Luther, Prosser, Robertson, South, Walz, and Kathryn P. Taylor halls are coeducational residences. Prosser, Brown, and Walz Halls house first-year students.

The new 2201 Chew Street Residence Hall, constructed in 2006-2007, houses 48 students in 4 person suites that include full kitchens and two double rooms. The facility includes student social space and laundry facilities. The new MacGregor Village Residence Hall Buildings, constructed in 2007, include six apartment-like suites per building. Each suite contains three single and one double room and has a full kitchen. The five residence hall buildings on this site have access to a new laundry building with a student meeting room.

JUDICIAL AFFAIRS

Muhlenberg College students are both citizens and members of an academic community. As citizens they enjoy the same constitutional freedoms as other citizens and are subject to criminal and civil law. As members of the College community, however, they assume additional obligations. Each student bears a responsibility to preserve a collegiate environment which encourages the maximum development of all students. The Muhlenberg College Social Code along with the laws of the city of Allentown, the Commonwealth of Pennsylvania, and the United States guide actions and are expected to be followed. Students are held accountable for their actions and Muhlenberg College reserves the right to deal with infractions of the Social Code; such infractions may be dealt with through administrative and/or judicial channels. Parents may be notified when a student has gone through the Judicial Process and is found in violation of the Alcohol Policy or other offenses. This notification will be done at the discretion of the Dean of Students and in accordance with College policy.

RELIGIOUS LIFE

The religious life of the Muhlenberg College community is rich and diverse. A church-related college of Lutheran heritage, it has a full-time chaplain as pastor to the community and coordinator of the team of campus ministry staff persons representing various faith traditions. Chapel offices are located at the rear of Egner Memorial Chapel. The Roman Catholic Chaplain's office is located at the Newman Center and the Jewish chaplain has an office at the Hillel House. The beautiful neo-Gothic Egner Chapel is open regularly for private meditation or scheduled events. Regular Sunday worship services are conducted in the Chapel: 1 p.m. is an ecumenical, word and sacrament worship; 9 p.m. is a Roman Catholic mass. Friday night Shabbat dinner and services are offered at the Hillel House.

Diversity is also expressed through the variety of student religious fellowship groups:
Chapel (the ecumenical Christian ministry)

Newman Association (Roman Catholic)
Hillel (Jewish)
CCF (Christian)
SEVEN (student-led Christian group)

These groups provide regularly scheduled and special event programs in the areas of social activities, community meals, education, and community service.

In addition to the Chapel, the Hillel House for Jewish Life is found at 2238 Chew Street. The house maintains a kosher kitchen, hosts rotating weekly Shabbat dinners and services on Friday nights and Sunday bagel brunches. Hillel also sponsors several off-campus events throughout the academic year. The house further serves as a drop-in center for Jewish students. Located at 2339 Liberty Street is the Newman Center where daily mass and weekly fellowship dinners are offered for the Roman Catholic community.

RESIDENTIAL SERVICES

The Residential Services program is committed to quality of life in the residence halls, MILE program, and Greek houses. We encourage self-responsibility, facilitate development, and provide an environment conducive to academic success.

Our undergraduate staff includes seven head residents, upperclass students with responsibility for the general administration and maintenance of a residence hall, and over 50 Resident Advisors and Resident Liaisons who take responsibility for each of the floors in the halls, complementing and supplementing the formal education process.

Our professional staff includes a Director of Residential Services, an Associate Director, an Assistant Director, an Office Manager, and a Presidential Assistant. Additionally, there are two professional Residence Coordinators who live in campus housing and supervise the undergraduate staff.

STUDENT ACTIVITIES

The Office of Student Activities plans, supports, and promotes diverse cultural, educational, social, and recreational programs which enhance the quality of campus life and community spirit. The student activities program at Muhlenberg is student initiated and supports a broad array of experiences (concerts, speakers, dances, comedians, musicians, etc.). The Muhlenberg Activities Council (MAC) is the student organization which works closely with the Office of Student Activities and recommends activities in areas affecting Muhlenberg student life. In addition to working with MAC, this office assists recognized student clubs and organizations in providing special interest programming for Muhlenberg students and provides guidance to groups of students wishing to create new clubs and organizations.

Highlighting the activities calendar at Muhlenberg are a major concert and a performance by a well-known comedian presented each year by the Student Activities Office. We also provide opportunities for student performers to showcase their talents as part of our regular weekend activities. Students frequently perform at various venues on campus as well as during specially designated Talent Shows and theme weekends. Numerous a capella groups, theater and dance groups, acoustic musicians, comedians, and student bands take advantage of these opportunities.

STUDENT LEADERSHIP DEVELOPMENT AND TRAINING

Muhlenberg College's leadership programs offer inclusive leadership development activities emphasizing personal growth, skills development, and experiential learning congruent with the mission of Muhlenberg College.

In addition to opportunities for individual students, the College offers outreach services and programs to all student organizations in areas of group development and dynamics, problem solving, and critical thinking.

Assessment and evaluation tools are used in creating and revising programs to best meet the varied student and student organization needs.

Contact: Chris Jachimowicz, Director of Student Leadership Development, Lower Level, Seegers Union, 484.664.3733

Graduation Requirements



Because of the rapid pace of cultural and technological change in our society, highly specialized training does not provide the student with the preparation and knowledge required to respond to the future. A broadly based liberal arts education provides the student with the intellectual perspective, problem-solving experience, and communication skills necessary to adapt to a changing world.

Muhlenberg College general academic requirements are designed to furnish the student with the theoretical and practical knowledge that an educated person should possess regardless of personal career goals. Such knowledge includes an understanding of the major fields of learning, an ability to express oneself clearly and cogently, an understanding of the values found in religious traditions and philosophical reflection, an understanding of epochs, languages, and cultures other than one's own, and above all, an ability to see issues from many sides, to question what is taken for granted, and to view particular events in relation to their larger contexts. The Muhlenberg College curriculum provides opportunities for exploring and integrating ideas while challenging students to question, discuss, and think critically about their own beliefs and values. By fostering such skills and perspectives, a Muhlenberg education seeks to provide the student with the insight and flexibility needed to meet the challenges of the future.

Muhlenberg College uses a course system (units) intended to emphasize the mastery of subject matter in contrast to the credit system which measures achievement in terms of time spent in class. A course as a unit of instruction may include a combination of lecture, discussion, recitation, computer work, group projects, and laboratory work. The course is the entire learning experience, not merely the time spent in the classroom. Such an approach delegates to students greater responsibility for their own education and encourages active learning.

GENERAL ACADEMIC REQUIREMENTS

The following academic requirements apply to all liberal arts degree candidates first enrolled at the College since Fall 1989. A current listing of specific courses which meet the College's general academic requirements may be obtained from the Office of the Registrar.

I. ACADEMIC SKILLS

Effective writing, speaking, and reasoning are important in all academic disciplines and are hallmarks of the educated person. The development and utilization of these skills will be evident in courses throughout the curriculum. Students are also required to have some knowledge of a language other than English—a skill which helps in understanding the structure of language as well as providing access to another culture. Requirements have been established so that all students may have the opportunity to achieve competency in these skills early in their college experience.

1. **Writing (W)**—competency in writing clear and cogent expository prose. *Required: First-Year Seminar and two additional writing intensive courses; one of these must be a course designated by the major department. See also Writing Program, page 36.*
2. **Oral Expression**—skills in speaking clearly and effectively in small groups or to larger audiences. First-Year Seminars and other seminar courses will give special attention to speaking skills.
3. **Reasoning (G)**—the ability to understand and utilize mathematical and/or logical relationships, to analyze data, to construct and assess arguments, and to make sound judgments. *Required: one course. Students are encouraged to complete the reasoning requirement no later than the end of the sophomore year.*
4. **Language (FL)**—the development of the basic skills of language acquisition and usage such as understanding grammatical structure, oral-aural ability, reading comprehension, and writing ability, as well as an introduction to the cultural aspects of language study. *Required: two courses in the same language OR proficiency adequate to prepare students for the Conversation and Composition course (301) in the language. Students are encouraged to complete the language requirement by the end of the sophomore year. Initial placement in language study at Muhlenberg is dependent upon experience and placement test results as recommended by the Department of Languages, Literatures, and Cultures.*

II. PERSPECTIVES

The following requirements provide some degree of breadth in the academic experience of all students. Courses meeting perspectives designations will introduce students to the different types of assumptions, questions, ways of understanding, and

results that characterize various fields of inquiry in the liberal arts. A course may have up to two perspectives designations; however, no one course can be used by a student to satisfy more than one perspectives requirement.

1. **Literature and the Arts**—an exploration of the various modes of creative expression in order to enhance the understanding and appreciation of works of the creative mind. *Requirement: two courses, one course from each area.*

The Fine Arts (A)

Designated courses in Art; Dance; English; Languages, Literatures, and Cultures; Media and Communication; Music; and Theatre.

Two ½ unit dance technique courses enrolled in a single term.

Two ½ unit Individual or Class Applied Music courses in the same instrument

Literature (L)

Designated courses in Classical Civilization; English; Languages, Literatures, and Cultures; and Religion Studies.

2. **Meaning and Value**—an examination of what it means to be human and a study of the values that should direct our conduct or could give meaning to our lives through a consideration of religious traditions or philosophical reflection. *Requirement: two courses, one course from each area.*

Philosophical Reflection (P)

Designated courses in Philosophy, Political Science, and Religion Studies.

Religious Traditions (R)

Designated courses in Religion Studies and Anthropology.

3. **Human Behavior and Social Institutions (B)**—an understanding of the relationship of the individual to social institutions through a study of individual and group behavior as well as the structure, purpose, ideology, and dynamics of social institutions. *Requirement: two courses from different departments.*

Designated courses in Anthropology, Economics, Education, Media and Communication, Political Science, Psychology, and Sociology.

4. **Historical Studies (H)**—an understanding of the past that embraces a broad range of human activity, that takes seriously the integrity of the past, that explores the connection between successive events in time, and that examines the processes by which the past has become the present. *Requirement: one course.*

Designated courses in American Studies; History; Languages, Literatures, and Cultures; Media and Communication; and Theatre.

5. **Physical and Life Sciences (S)**—an exploration of our current understanding of natural phenomena; a study of the methods employed to formulate a consistent set of explanations that are developed from and applied to experimental observations.

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Requirement: two courses selected from different departments or a full year of laboratory science within a single department.

Designated courses in Anthropology, Biology, Chemistry, Environmental Science, Environmental Studies, Neuroscience, Physics, and Psychology.

6. **Diversity and Difference (D)**—a focus on the practices and perspectives of one or more human societies *outside* the geographic boundaries of Europe or the United States, or on the practices and perspectives of one or more marginalized ethnic minority populations *within* Europe or the United States. *Requirement: one course.*

Designated courses in Anthropology; Art; Dance; English; Environmental Studies; History; Geography; Languages, Literatures, and Cultures; Media and Communication; Music; Philosophy; Political Science; Religion Studies; Sociology; and Theatre.

III. EXPLORATION AND INTEGRATION

Muhlenberg College is committed to the interdisciplinary exploration and integration of ideas. In keeping with this commitment, the First-Year Seminar is designed to encourage students to question, discuss and think critically about their own basic beliefs and values. Writing and speaking skills will be stressed and a broad range of seminar topics will be offered. Departmental courses and seminars are often structured as interdisciplinary experiences.

First-Year Seminars are small, discussion-oriented courses that focus on the development of effective thinking, writing, and speaking skills. In the concentration on writing, emphasis is placed on the formulation of thesis, critical use of evidence, and processes of revision. All students are required to complete a First-Year Seminar.

IV. PHYSICAL EDUCATION

Courses in physical education are designed to promote an understanding of the elements of physical well-being. All students are required to successfully complete Principles of Fitness & Wellness which is a semester-long course exploring the dimensions of wellness and the health related components of fitness. *Students are strongly encouraged to complete the physical education requirement no later than the end of the sophomore year.*

WRITING PROGRAM

Muhlenberg College offers a cross-curricular writing program in which faculty from almost every department participate. As a requirement for graduation, students are required to take a minimum of three officially designated writing-intensive (W) courses: one First-Year Seminar, one W-course selected from anywhere in the curriculum, and one W-course designated by the student's major.

A writing-intensive course is a regular academic course in which enrollment is limited to twenty students, and students complete a minimum of fifteen pages of writing broken into at least three assignments. One of these assignments must be a revision in response to the instructor's written comments about the thinking in the original draft.

The basic premise of the writing program is that writing is necessary to thinking and learning; it is an essential way of acquiring knowledge and of arriving at ideas about it. Another primary assumption of the program is that the ability to write well is not a skill one can acquire in a semester of grammar study. Instead, students are encouraged to take a number of writing-intensive courses throughout their careers at the College. The Writing Program is supported by a Writing Center that is staffed by trained peer tutors with majors in a wide range of disciplines.

In exceptional cases, students may appeal to the Writing Program Committee to receive special W-credit for a course that is not designated as a W. The fact that a student has done a significant amount of writing in a course is not sufficient reason for assigning special W-credit because a writing-intensive course is a particular kind of collaborative learning experience. Because students may not satisfy graduation requirements with independent studies, only regular courses can be considered for writing-intensive status. Guidelines for applying for special W-credit are available in the Office of the Registrar. Questions about W-courses in general and special W-credit in particular should be directed to Jill Stephen or David Rosenwasser, Department of English.

EXEMPTIONS

Exemptions from general academic requirements may be granted to those students who can demonstrate the requisite level of proficiency or understanding by means of a College Board Achievement examination, an Advanced Placement (AP) examination, the International Baccalaureate (IB) program, a Muhlenberg College exemption test, or a College Level Examination Program (CLEP) test.

Fulfilling the general academic requirements through alternate means that can be demonstrated to satisfy the intent of these requirements is permitted with the approval of the Dean of the College for Academic Life and the faculty's Curriculum Committee. Any student, after consultation with his/her advisor and the academic department(s) involved, may submit a proposal for consideration.

DEGREE REGULATIONS

1. Candidates for a degree must earn no fewer than 34 course units, at least 17 of them in courses offered through Muhlenberg.
2. Candidates must be certified in a major field of study. Normally, at least half of the courses required for a major must be in Muhlenberg courses.

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3. Candidates must earn a cumulative grade point average of not less than 2.000, based on the total number of Muhlenberg College course units attempted.
4. Candidates must earn a grade point average in the major field of study of not less than 2.000, based on the total number of course units attempted in the major.
5. Candidates must normally complete their final two semesters “in residence.” A student is considered “in residence” when enrolled for 3 or more course units at Muhlenberg during a traditional academic (fall or spring) term. This regulation does not apply to students who have been accepted to degree candidacy through the Wescoe School of Muhlenberg College.
6. Candidates must satisfy all general academic requirements with one unit courses, except in the case of dance techniques and applied music courses as noted under the requirement in the Fine Arts.
7. Candidates may satisfy requirements in a major or minor field of study and a general academic requirement concurrently.
8. Candidates must attend Commencement unless excused by the Office of the Registrar. The policy regarding participation in Commencement by students who have not yet completed all graduation requirements is available in the Office of the Registrar.

The Bachelor of Arts (A.B.) is awarded to degree candidates completing majors in the Humanities or Social Sciences divisions. Bachelor of Science (B.S.) degrees are awarded to candidates completing majors in the Natural Sciences and Mathematics division.

BACHELOR OF ARTS & SCIENCE -- DUAL DEGREE (A.B.-B.S.)

A student who has completed 43 or more course units and the major requirements for both the Bachelor of Arts degree and the Bachelor of Science degree may earn a dual degree. Interested students should contact the Office of the Registrar for additional information.

BACHELOR'S DEGREE IN SELF-DIRECTED INQUIRY

This is a special program for qualified students who wish to create an individual program of inquiry and study rather than complete the general academic requirements and a traditional major. Students may apply for admission concurrently with their application to the College or during their first year of study at Muhlenberg.

Students permitted to seek the bachelor's degree in self-directed inquiry will be required to complete introductory and capstone seminars designed specifically for the program. The seminars, combined with significant and frequent interactions with a

faculty advisor, focus on fostering a coherent learning experience for students in the program.

Students may leave the self-directed inquiry program at any time. They should be aware, however, that a return to the traditional curriculum will almost definitely require additional time and courses to complete a degree program.

More information about the bachelor's degree in self-directed inquiry can be obtained from the program director, Dr. Elizabeth McCain, Department of Biology.

FINANCIAL OBLIGATIONS

All fees: comprehensive, room and board, and other charges (including fines) incurred by a student regardless of nature must be paid in a timely fashion. Students with outstanding balances will not be permitted to enroll for courses or participate in any College activities, including commencement exercises.

Final responsibility for meeting all degree requirements rests solely with the student.

Academic Policies



The course offerings, rules, regulations, and fees appearing in this catalog are announcements only and should not be construed as representing contractual obligations of Muhlenberg College. Muhlenberg College reserves the right to change its academic regulations, courses of instruction, comprehensive fee, charges for room and board or other fees, and degree requirements without notice, should it be the judgment of the College that circumstances warrant such changes. Any changes in federal or state law will supersede College policies and requirements published here.

Admission to and attendance at the College are conditional upon compliance with the rules and regulations of the College as now established or hereafter revised, including the Academic Behavior Code and the Social Code. Many of the regulations are published in this catalog; others may be found in the Student Handbook. It is the responsibility of each Muhlenberg College student to know and abide by the regulations of the College.

COURSE LOAD

A full-time degree candidate normally enrolls for 4 course units per semester. The maximum course load for students during their first semester is 4.5 course units. During all other fall or spring terms, the maximum course load is 5.5 course units. Summer load is 2 courses at a time for a maximum combined summer load of 4 course units.

In order to maintain full-time status, a student must register for at least 3 course units per semester. Students who wish to register for fewer than 3 course units may apply for part-time status in the Office of the Registrar. Part-time students will incur tuition charges at the current per course unit rate plus all fees.

AUDITING COURSES

Students in good academic standing may audit one course per semester with the approval of the instructor. Instructors must explicitly detail their expectations for students auditing their courses at the beginning of the semester, and students must seek the consent of their faculty advisor. Typically, students auditing a course are expected to complete all assignments and participate in class discussions but may not be required to submit written work or take exams. Students may change a course from audit (no course unit attempted) to a regular course unit basis or vice versa during the add/drop period with the approval of the instructor and the faculty advisor by completing an Audit Request form and submitting it to the Office of the Registrar. The student's transcript will list the audited course with a grade of "AU" if the student has satisfactorily completed the audit. If the student fails to fulfill the expectations of the audit, no notation will appear on the transcript.

PASS-FAIL

Full-time, degree-seeking students who have completed at least 16 units with a cumulative GPA of 2.000 or more may elect to enroll for one course unit per semester on a pass-fail basis up to a total limit of three. One of the three pass-fail courses may be taken in the same academic division as the student's major or minor but not within the discipline of the major or minor program itself. Courses designated "pass-fail only" are exempt from the pass-fail requirements described here.

No course for which a student elects to enroll on a pass-fail basis may be used to satisfy a general academic requirement or major/minor requirement. "Pass-fail only" courses offered within the student's major or minor also do not meet any degree requirement.

Only 20 percent of the total enrollment in a course shall be open to students electing the pass-fail option unless this restriction is specifically waived by the instructor. The instructor shall be notified that a student is enrolled in the course on a pass-fail basis, and the grade submitted to the Registrar must be either "P" or "F." A "P" should be considered the equivalent of a traditional "D" or higher.

Courses enrolled on a pass-fail basis that are awarded a grade of "P" will not be used in computing the GPA but will be counted as course units toward graduation; courses failed will be computed in the GPA. Students may change a course from pass-fail to traditional grading or vice-versa only through the add/drop period of the semester.

ACADEMIC RENEWAL

Academic renewal is extended to former Muhlenberg students who have not been enrolled at the College for at least 10 years. It allows them to remove from their

cumulative GPA previously taken coursework. This option may be exercised pursuant to the following regulations:

1. The student must consult with the Dean of the Wescoe School or the Dean of the College for Academic Life, depending on the college of enrollment, and that Dean must approve course selection before the student may enroll.
2. The option may be exercised only after three course units have been completed with a grade of “C” or better. The student must initiate the procedure; it will not be automatic.
3. All courses and grades will remain on the student’s transcript and be used for graduation honors; courses with grades of D or F will not be included in the calculation of cumulative GPA.
4. Courses in which grades of “C-” or better were earned prior to return will be counted toward degree requirements.
5. Courses based on credit hours will be converted to course units according to the existing course conversion procedures which apply to all Muhlenberg students.
6. This option can be extended only once to any individual student.

TRANSFER COURSES

Almost all courses taken elsewhere must be *transferred* to Muhlenberg College. Courses offered through the LVAIC consortium and any course specifically identified in the College catalog, such as the London Theatre Program at Goldsmith’s College, the business program at the University of Maastricht in the Netherlands, or the Washington Semester are the only exceptions.

No more than *17 transferred* course units may contribute to the 34 course units required to earn a bachelor’s degree at Muhlenberg. The College will accept no more than 5 course units for transfer during a traditional academic term (fall or spring) while 4 course units is the limit for any type of summer term. Only courses for which a student has earned a “C-” or better will be considered for transfer to Muhlenberg. Courses in which a traditional letter grade (A-F) was not earned will be considered for transfer only if additional documentation detailing successful completion is provided. Grades earned in transferred courses will not be included in a student’s general Muhlenberg grade point average. It should be noted, however, that graduation honors are calculated based on *all college coursework attempted*, regardless of where the instruction took place and whether or not it successfully transferred to Muhlenberg. Once courses have been transferred, they become part of the permanent record and cannot be removed.

Many institutions may not use a course unit system similar to Muhlenberg's. For the purpose of all transfer transactions, the Muhlenberg course unit should be considered equivalent to 4 semester credit hours. In all cases, Muhlenberg College can accept transfer courses only with an official academic transcript from a regionally accredited higher education institution where courses have been successfully completed. Additional information may be obtained in the Office of the Registrar.

CHANGING COURSES

Students may add and/or drop courses without academic penalty through the first eight class days of the traditional semester with the approval of their faculty advisor. Enrollment in courses is closed at the conclusion of the add/drop period. The last day to add/drop is identified each semester on the College's academic calendar.

WITHDRAWAL FROM COURSES

Students may withdraw from courses after the add/drop period until the end of the ninth week of the semester with the approval of the academic advisor. A "W" grade will be assigned indicating that the student has withdrawn from the course. No course may be withdrawn after the ninth week of the semester except for documented medical reasons certified by the Director of Student Health or the Director of Counseling. The last day to withdraw is identified each semester on the College's academic calendar.

<p>All students are responsible for their own enrollment. Failure to properly add, drop, or withdraw from a course may result in no course units awarded and/or a failing grade.</p>

PROGRAM OPTIONS

Students at the college are allowed to graduate with a single major, a single major with one or two minors, or a double major. Under circumstances where a student meets the requirements for majors or minors in excess of the previously stated limits, the student must choose which majors or minors he or she wants the college to recognize at graduation. Any course accepted by the College can be counted simultaneously towards the requirements of both major and minor programs.

MAJOR PROGRAM

Students generally select a field of study during the fall semester of the sophomore year, although major declarations may be made earlier or later in consultation with the academic advisor. In order to enter and remain in a department as a major, a student must maintain at least a 2.000 cumulative GPA in courses prescribed by the department. At the end of any semester, a department may drop a student who fails to meet the minimum GPA standard. Students in this situation may remain at the College

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without a major for a maximum of two semesters, during which time they may seek admission to a new department or attempt to gain re-admission to their former major.

Students must be accepted into a major prior to the senior year and must complete a major program as a part of the College degree requirements in order to graduate.

A student may change from one major to another with the approval of the appropriate department chairs. Official major declarations must be completed through the Office of the Registrar.

MINOR PROGRAM

Minor programs are also available in many departments. Course work required for a minor is approximately three-fifths of that required for a major and in no case is less than 5 course units. All rules which currently apply to majors also apply to minors. Any course accepted by the college can be counted simultaneously towards the requirements of both major and minor programs.

COOPERATIVE PROGRAMS

Muhlenberg College has a cooperative program in **dentistry** with the University of Pennsylvania School of Dental Medicine. Muhlenberg students who are accepted into this program attend Muhlenberg for three years and the School of Dental Medicine for four years. By completing the program, they earn a B.S. degree from Muhlenberg with a biology major and a D.D.S. degree from the University of Pennsylvania. Additional information may be obtained from Ms. Lori Provost, Health Professions Advisor.

Muhlenberg offers a cooperative 3-2 year combined plan program in **Engineering** with Columbia University and Washington University. While at Muhlenberg, the student completes the basic preparatory courses for engineering, including mathematics through differential equations, computer science, physics, chemistry, and advanced courses selected on the basis of the field of engineering interest as well as all other general academic requirements. Admission to the affiliated program is automatic upon recommendation by Muhlenberg for students with a cumulative GPA of at least 3.000. This program involves three years at Muhlenberg and two years in the professional engineering school leading to the completion of the B.S. degree from Muhlenberg and a B.S. in engineering from the cooperating institution. The 4-2 program involves completion of the B.S. degree in four years at Muhlenberg then continuing in the engineering program for 1½ to 2 years leading to the B.S. degree in engineering. Students interested in these programs should consult Dr. Robert Milligan, Department of Physics.

Students interested in **environmental science** or **forestry** may enter the 3-2 year or 4-2 year combined degree program between Muhlenberg College and the School of the Environment at Duke University. Duke University requires at least one introductory

course in calculus, statistics, microeconomics, and computer science. Quantitative and analytical abilities are an essential part of this program, so math and statistics courses, beyond the minimum prerequisites, are strongly recommended. Before attending Duke, the student must complete all Muhlenberg College graduation requirements and the requirements of a chosen major, usually biology, chemistry, environmental science, mathematics, economics, or computer science. For the 3-2 year program a student will receive a B.S. from Muhlenberg College after completing the first year at Duke. Duke University will grant a Master of Environmental Management (M.E.M.) or a Master of Forestry (M.F.) upon completion of the entire program. Areas of study include: biohazard science, coastal environmental management, environmental toxicology, chemistry, risk assessment, resource ecology, resource economics and policy, water and air resources, and forest resource management. Students interested in this program should consult Dr. Richard Niesenbaum, Department of Biology.

Muhlenberg College also has a cooperative program with **Drexel University School of Medicine** and the Lehigh Valley Hospital. Students admitted as Lehigh Valley Hospital Scholars into the Integrated Muhlenberg College/Drexel Program complete all academic requirements of a Muhlenberg student as per the stipulations of the program. Students must meet all program requirements of the Lehigh Valley Hospital and Drexel University School of Medicine. Additional information may be obtained from Ms. Lori Provost, Health Professions Advisor.

Muhlenberg College has an Early Assurance Program with **Temple University School of Medicine** and St. Luke's Hospital. A maximum of four Muhlenberg pre-med students are accepted to the medical school each year after completing six semesters of academic work at Muhlenberg. Each applicant must apply to TUSM by August 1st, just prior to beginning their final year of study at Muhlenberg College. Students must fulfill all academic requirements of a Muhlenberg student in addition to meeting all program requirements of Temple University School of Medicine and St. Luke's Hospital. Additional information may be obtained from Ms. Lori Provost, Health Professions Advisor.

For students wishing to obtain **music certification** (K-12) Muhlenberg offers a cooperative program through Moravian College's Pennsylvania Department of Education (P.D.E.) approved program. To be eligible for admission to the program, students must have completed a preliminary application to teacher certification, have a minimum cumulative GPA of 2.70, a minimum cumulative GPA in the music major of 3.00, a minimum cumulative GPA of 3.00 in all education courses at Muhlenberg, evidence of a successful field experience in EDU 101 or 103, at least 2 units completed in both mathematics and English, and at least 12 units completed in college-level courses. Interested students should consult the Department of Music.

The **occupational therapy** program is a cooperative agreement between Muhlenberg College and Jefferson College of Health Professions of Thomas Jefferson University (TJU). Students can earn either a B.S. or an A.B. degree and a M.O.T. degree in five and a half years after graduation from high school. Students will spend the first three

years at Muhlenberg College and then proceed to Jefferson College of Health Professions for the final two and a half years of graduate Occupational Therapy coursework. A B.S. in Natural Science or an A.B. in Psychology or Sociology from Muhlenberg College will be awarded after successful completion of the first year at Jefferson College of Health Professions. A Master's in Occupational Therapy degree from Thomas Jefferson University will be awarded after successful completion of the third year at Jefferson College of Health Professions. Additional information may be obtained from Ms. Lori Provost, the Health Professions Advisor.

Muhlenberg College has a joint program with the State University of New York (SUNY) State College of **Optometry**. This affiliation agreement allows selected students to complete an A.B. or B.S. degree from Muhlenberg and an O.D. degree from SUNY-Optometry in seven years. Students must maintain the required academic and personal interview standards set forth by the respective institutions. Additional information may be obtained from Ms. Lori Provost, Health Professions Advisor.

The **physical therapy** program is a cooperative agreement between Muhlenberg College and Jefferson College of Health Professions of Thomas Jefferson University (TJU). Students can earn both a B.S. and a D.P.T. degree in six years after graduation from high school. Students will spend the first three years at Muhlenberg College and then proceed to Jefferson College of Health Professions for the final three years of graduate Physical Therapy coursework. A B.S. in Biology or Natural Science or an A.B. in Dance, Psychology, or Sociology from Muhlenberg College will be awarded after successful completion of the first year at Jefferson College of Health Professions. A D.P.T. degree from Thomas Jefferson University will be awarded after successful completion of the third year at Jefferson College of Health Professions. Additional information may be obtained from Ms. Lori Provost, the Health Professions Advisor.

Finally, Muhlenberg, in cooperation with Lehigh University, offers a voluntary Army Reserve Officer Training Corps (**AROTC**) Program within the terms of the cross-registration agreement between the two schools. Grades and course work completed in the 4-year Army ROTC program will be included in the student's academic record at Muhlenberg College. However, only the final 2 courses in the program (the 100 level MS courses) may be counted toward the 34 course unit graduation requirement. Additional information on the program is available in the Office of the Registrar.

CLASS ATTENDANCE

Muhlenberg College recognizes that a college environment should foster student responsibility. Students are expected to attend classes regularly but are responsible for governing themselves in this matter. It is recognized that interaction in the classroom enhances learning and is usually a significant part of how students' overall performance will be evaluated.

The College recognizes the value of extracurricular experience, but the academic program has priority at Muhlenberg. Moreover, scheduled classes have priority over

all other activities. In cases of unavoidable conflict, students have the responsibility of informing their instructors as soon as possible and reaching some kind of acceptable resolution. Absence from a class will not be accepted as an excuse for not mastering class material. The student is responsible for all information presented, the discussion, and the conceptual analysis that take place during classes.

Instructors should inform students in the first week of class of their policy regarding the relationship between attendance, interaction in the classroom, and evaluation in the course.

A student who does not attend the first meeting of a course *may* be dropped from the course in order to make room for students waiting to enroll. *Students should not assume, however, that missing the first course meeting ensures that they will be dropped from a course.* Non-attendance drops will be processed only at the instructor's request. Again, all students are responsible for their own enrollment; failure to properly add, drop, or withdraw from a course may result in the award of no course units and/or a failing grade.

DEAN'S LIST

Outstanding academic achievement will be recognized by the Deans of the College each semester. Students enrolled for 3 or more course units, having a term GPA of at least 3.500 with no grades of D, F, U, or VF for the semester will be eligible for Dean's List. Students with an incomplete or NG grade will not be eligible for inclusion on the Dean's List until the work is completed and a final grade is recorded.

GRADUATION HONORS

Muhlenberg College grants degrees with honors in three categories: *cum laude*, *magna cum laude*, and *summa cum laude*, based on the cumulative average of all collegiate coursework. Students will be considered for graduation honors only if they achieve a cumulative GPA of 3.500 or greater in 17 or more course units offered through Muhlenberg. **Honors will be assigned, however, based on the cumulative GPA achieved in all graded collegiate work ever attempted, including courses not accepted for transfer.** Students first enrolled in Fall 1998 or thereafter with a cumulative GPA of 3.500 or greater but less than 3.700 will be recognized as *cum laude* graduates; students with a cumulative GPA of 3.700 or greater but less than 3.900 will graduate *magna cum laude*; and students with a cumulative GPA of 3.900 or more will be honored as *summa cum laude* graduates.

HONOR AND RECOGNITION SOCIETIES

Established in 1776 at the College of William and Mary, Phi Beta Kappa is a distinguished fellowship of scholars devoted to liberal education and intellectual pursuits. The Muhlenberg chapter was granted a charter by the national honor society

in 1967. Based on national standards, election to Phi Beta Kappa represents the most outstanding academic achievement in the arts and sciences.

Muhlenberg has chapters of honor societies and recognition societies in many academic disciplines. Honor societies include Omicron Delta Epsilon (economics), Omicron Delta Kappa (leadership), Phi Alpha Theta (history), Phi Sigma Iota (romance languages), Phi Sigma Tau (philosophy), Pi Mu Epsilon (mathematics), Pi Sigma Alpha (political science), Psi Chi (psychology), Theta Alpha Kappa (religious studies and theology), and Sigma Tau Delta (English). Recognition societies include Delta Phi Alpha (German), Dobro Slovo (Slavic studies), Eta Sigma Phi (classical languages), and Phi Kappa Delta (forensics). Phi Sigma Tau, the national philosophy honor society, was founded at Muhlenberg in 1930. Muhlenberg College also maintains a chapter of Alpha Phi Omega, a national service fraternity.

ACADEMIC BEHAVIOR CODE

The Academic Behavior Code is a communal expression of the importance of academic honesty and integrity. Violations of the Code are violations of community. The Code, to which all incoming students subscribe, governs all College activities, including but not limited to methods for evaluating academic achievement such as examinations, quizzes, tests, themes, reports, recitations, and laboratory exercises. The Academic Behavior Code is printed in full in the Student Policy and Resource Guide and is available on the web; students should familiarize themselves with its provisions.

ACCESS TO EDUCATION RECORDS

Muhlenberg College strictly complies with all provisions of the Family Educational Rights and Privacy Act (FERPA), a federal statute passed into law in 1974 that provides the basis for dealing with student information at post-secondary educational institutions. FERPA regulations ensure a minimum standard for the access to, the use of, and the release of information from education records.

Students have the right to inspect their records and to challenge anything in them that they perceive to be inaccurate or misleading. The College must provide reasonable accommodations to accomplish these tasks. The office which creates and maintains the record in question is responsible for determining what is reasonable. FERPA regulations also stipulate that the College must protect all information in a student's education records from being disclosed to anyone but the student, without the student's written consent. Legal exceptions to this specific prohibition include information released to school officials with a legitimate educational interest, compliance with a lawfully issued subpoena, provisions for directory or public information, and the release of information to parents of financially dependent students.

More information about Muhlenberg's student information release policy can be found in the Student Policy and Resource Guide or through the Office of the Registrar (www.muhlenberg.edu/mgt/registrar).

GRADING

Quality points assigned to each traditional letter grade by course unit, effective Fall 1992:

Grade	1 course unit
A+, A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D	1.0
F	0.0

- AU Successful completion of audit (no course unit awarded, no GPA calculation).
- I Incomplete. An incomplete may be assigned when the student presents a compelling reason for the inability to complete course requirements by the end of the term. Incompletes will not be calculated in the GPA until such a time as they are converted into a traditional letter grade. Completion of the work must be arranged with the instructor and a grade submitted no later than 60 days after the deadline for submitting final grades for the semester. An incomplete grade not assigned a traditional letter grade in 60 days will be recorded as "F".
- NG No grade issued.
- P Successful completion of pass-fail course (course unit awarded, no GPA calculation. Pass-fail courses failed will be computed in GPA.)
- S Successful completion of zero unit course (no course unit awarded, no GPA calculation).
- U Unsatisfactory performance in a zero unit course (no course unit awarded, no GPA calculation).
- VF Academic Behavior Code Violation (no course unit awarded, treated as failing for GPA calculation).
- W Student withdrew (no course unit awarded, no GPA calculation).

An asterisk (*) indicates that an incomplete was initially recorded for the course then changed to the letter grade which is currently reflected.

A student's grade point average (GPA) is the sum of quality points divided by the total attempted course units.

REPEATED COURSES

Courses in which the student earns a "B-" or greater cannot be repeated. If a student repeats a course, all grades for the course are calculated into the GPA and listed on the

academic record; however, only the course earning the first passing grade is counted toward the 34 course units required for graduation.

***ACADEMIC DIFFICULTY
(WARNING, FORMAL PROBATION, AND ACADEMIC SUSPENSION)***

The College endeavors to help students avoid academic difficulty. Historically, the most successful students attend class regularly, complete and submit assignments in a timely fashion, and seek assistance from instructors, advisors, Academic Resource Center, or Student Health Services at the first signs of difficulty. Moreover, students who are successful academically have learned to balance extracurricular activities with academics.

Academic performance is monitored closely by the Dean of the College for Academic Life each term. The Dean will contact students at the conclusion of each term whose academic performance indicates a cause for concern. **Academic warning** may be triggered by any combination of two or more failing grades, incomplete grades, unsatisfactory grades, or course withdrawals in a term, a term grade point average below 1.500, or a cumulative grade point average less than the standards described in the table that follows.

Formal **academic probation** indicates that the quality of the student's work is below the level that might reasonably be expected to lead to graduation. A term grade point average below 1.000 or a cumulative grade point average less than the standards described below identify those students eligible for formal probation. All student performance indicating an eligibility for formal probation will be reviewed by the Dean of the College for Academic Life. After that review, students experiencing serious academic difficulties will be placed on formal probation. If, at the end of the first semester (five or fewer units), a first year student has less than a 1.2 grade point average (GPA), there are two alternatives for academic status: **academic probation** or **academic suspension** (mandatory academic leave of absence for one semester). Student progress during the probationary period will be carefully examined. At any time during the period, typically no more than two terms, the College may remove the student from probation, continue the student on probation, or dismiss the student from Muhlenberg. Furthermore, students on formal probation seeking to enroll additional courses beyond what is considered a "normal load", either at Muhlenberg or elsewhere, are permitted to do so only at the discretion of the Dean of the College for Academic Life; this provision includes enrollment in any type of summer term.

Cumulative academic performance is gauged on the number of course units attempted at Muhlenberg plus any transferred course units. Cumulative grade point averages less than the standards described in the table indicate the level of academic difficulty.

Attempted Course Units	Academic Probation or Suspension	Academic Warning
5 or less	Less than 1.200	Less than 1.500

Attempted Course Units	Academic Probation	Academic Warning
5.25 through 10	Less than 1.500	Less than 1.800
10.25 through 16	Less than 1.800	Less than 2.000
More than 16	Less than 2.000	

Finally, the College takes the position that any student permitted to enroll should be allowed to judge the wisdom of participating in extracurricular activities. Accordingly, a student experiencing academic difficulty may participate in such activities. Any student placed on academic probation or warning, however, is urged to give thoughtful consideration, in consultation with his or her academic advisor, to the structure of the total College program, curricular and extracurricular.

CLASS STANDING

First-year students have earned fewer than 7 course units; sophomores, 7 or more but fewer than 16; juniors, 16 or more but fewer than 25; and seniors, 25 or more.

DISMISSAL, SUSPENSION, AND READMISSION

Muhlenberg College reserves the right to dismiss or suspend any student for the following reasons: (a) academic deficiencies; (b) failure to gain acceptance into a major field of study; or (c) conduct deemed to be detrimental to the interests of the College. In such cases, neither the College nor any of its officers shall be under any liability whatsoever for such dismissal or suspension. The College will not accept transfer courses from any institution earned while a student is serving a disciplinary suspension.

Students dismissed for academic reasons may be readmitted upon formal application to the Dean of the College for Academic Life after the lapse of at least one academic year. Such an application should give strong evidence of a student's ability to attain a degree. If the application is approved, readmission will be probationary for a period of one term only. A second dismissal will be final, and no application for readmission will be entertained.

WITHDRAWAL FROM COLLEGE

A student who wishes to officially withdraw from the College must notify the Office of the Registrar. A student must complete withdrawal procedures prior to the beginning of the first semester in which he or she is not enrolled to ensure that the academic record will accurately reflect his or her intentions. All financial obligations must be satisfied before an official withdrawal can be granted or the academic record

can be released. At the time of withdrawal, the student's identification card must be surrendered to the Controller.

LEAVE OF ABSENCE

A student who wishes to take a leave of absence from the College must notify the Office of the Registrar. Requests must be submitted prior to the beginning of the semester when the leave would take effect. Approval of a leave of absence requires the student to surrender his or her identification card to the Controller. A leave of absence may extend no more than four cumulative terms. A student requesting a leave of absence for medical or psychological reasons must consult the Director of Student Health or the Director of Counseling. Initiating a request for a medical leave of absence may occur no later than 60 days after the conclusion of the term. The College will not accept transfer courses from any institution earned while a student is on a medical leave of absence.

RELEASE OF INFORMATION FROM ACADEMIC RECORDS, INCLUDING TRANSCRIPTS

Muhlenberg College complies with all federal regulations regarding the release of education records as established by the Family Educational Rights and Privacy Act. All requests to release information from the student's academic record must include his or her legal signature. This requirement specifically prohibits telephone and e-mail requests. Faxed requests are acceptable. The student is the only person who can authorize the release of information from his/her academic record. No one else (parents, friends, spouses, employers, etc.) may do so.

All requests should be directed to: Muhlenberg College, Office of the Registrar, 2400 Chew Street, Allentown, PA 18104-5586. An information release request should include the student's full name at time of attendance, social security number, dates of attendance, current address, address where the information should be sent, and handling instructions, if applicable. An administrative fee is assessed for most record release services. Please contact the Office of the Registrar for more information.

STUDENTS WITH DISABILITIES

Muhlenberg College is committed to ensuring that all qualified students with disabilities are provided reasonable accommodations, auxiliary aids, and services to ensure full access to programs, services, and activities. Students with disabilities who are the most successful at the post-secondary level are those who are appropriately qualified and prepared for independent academic study, have full knowledge of the impact of their disability, and who demonstrate well-developed self-advocacy skills.

The criteria for eligibility at postsecondary institutions are different than those used for eligibility determination in the K-12 arena. Under the ADA 1990, a disability is

defined as “a physical or mental impairment that substantially limits one or more major life activities, or having a record of such an impairment, or being regarded as having such an impairment”. Disability Documentation submitted to obtain accommodations, auxiliary aids, and services at the postsecondary level must identify the disability, provide evidence of the disability’s impact on the major life activity, and suggest recommendations for accommodations.

At the postsecondary level it is the student’s responsibility to disclose his/her disability, to request academic adjustments, and to follow established procedures for requesting those accommodations. Muhlenberg College students with disabilities who request accommodations, auxiliary aids, and services are encouraged to identify these needs to the Office of Disability Services as soon as possible after their application to the College has been accepted and their decision to attend has been confirmed. Submission of current, detailed documentation of the student’s disability with a completed Disability Disclosure Document is required in order to process requests. (Preferably, before the advising period in June.)

The Office of Disability Services will review submitted documentation, including the completed Disability Disclosure Document, and will consult with the appropriate campus professionals for further action. The student will be invited to discuss the disclosed disability and the requested accommodations, auxiliary aids, and services with the designated campus departments that include the Academic Resource Center, Student Health Services, and Counseling Services.

Students with documented disabilities may receive approval for reasonable accommodations to address their particular needs. Accommodations are determined on a case-by-case basis and must be requested by the student each semester.

After the point of documentation and disclosure, it is the student’s responsibility to begin a working relationship with his/her instructor by providing a letter of recommended accommodations from the appropriate college office. The student should then meet with each faculty member and describe how the disability will impact the course in question.

It is very important for students to work closely with faculty members when the disability impacts coursework. They are valuable resources and can usually help the student navigate the course requirements more efficiently.

For further information refer to the Students with Disabilities web page at www.muhlenberg.edu/students/disabilities.

Courses Of Instruction



PROGRAMS OF STUDY

DEGREES AND CERTIFICATION

Muhlenberg offers four degree programs: the Bachelor of Arts (A.B.), Bachelor of Science (B.S.), Bachelor of Arts & Science--Dual Degree, and a Bachelor's in Self-Directed Inquiry. A.B. majors include accounting, American studies, anthropology, art, business administration, media and communication, dance, economics, finance, English, French, German, German studies, history, history/government, international studies, music, philosophy, philosophy/political thought, political economy and public policy, political science, psychology, religion studies, Russian studies, sociology, Spanish, and theatre. B.S. majors include biochemistry, biology, chemistry, computer science, environmental science, mathematics, natural sciences, neuroscience, physics, and physical science. The Bachelor of Arts & Science--Dual Degree is an A.B./B.S. degree of 43 or more units.

The College also offers fully accredited programs leading to certification in both elementary and secondary education. Students must complete a major in an academic discipline together with the requirements for certification.

ACADEMIC DIVISIONS AND DEPARTMENTS

Presently, the College is organized into three divisions as follows:

Humanities

Art
Dance

English
 Languages, Literatures, and Cultures
 Music
 Philosophy
 Religion Studies
 Theatre

Natural Sciences and Mathematics

Biology
 Chemistry
 Computer Science
 Mathematics
 Physical Education
 Physics

Social Sciences

Accounting
 Anthropology
 Business Administration
 Economics
 Education
 Finance
 History
 Media and Communication
 Political Science
 Psychology
 Sociology

INTERDISCIPLINARY STUDIES

Interdisciplinary studies combine courses from more than one discipline, permitting students to explore an area of interest from several perspectives. In some cases, two fields are combined to form one major. In others, several disciplines are represented in the major or minor requirements. Where a major is not available, students may concentrate on a topic of interest as they complete the general academic requirements and choose their electives. In this way, they may elect clusters of courses of special interest to them.

Interdisciplinary Majors

American Studies
 Film Studies
 German Studies
 History/Government
 Interdisciplinary Sciences
 Biochemistry
 Environmental Science

Natural Science
Neuroscience
Physical Science
International Studies
Philosophy/Political Thought
Political Economy and Public Policy
Russian Studies

Interdisciplinary Minors

African American Studies
Asian Traditions
Environmental Studies
German Studies
Jewish Studies
Russian Studies
Women's Studies

Interdisciplinary Concentrations (majors or minors not available)

Classical Civilizations
Latin American Studies
Non-Science Medical

Special Interdisciplinary Programs

Dana Associates
Muhlenberg Scholars Program
RJ Fellows Program
Self-Directed Inquiry Program

THE WESCOE SCHOOL OF MUHLENBERG COLLEGE

The mission of The Wescoe School of Muhlenberg College is to provide lifelong learners the opportunity to continue and enhance their education and to do so in ways that recognize their experience, maturity, motivation, life circumstances, and capacity for independent scholarship.

Lifelong learners are very different from traditional-age full-time students. Recognizing this, we offer innovative programs of study with distinct and specialized opportunities. Wescoe students can complete a degree by enrolling in classes at night, during the day (on a limited basis), and on weekends.

Accelerated Programs

The Wescoe School offers the bachelor's degree in an accelerated format for the following majors: Business Administration, Business Administration with a concentration in Healthcare Management, Information Systems, and Human Resources Management. Students learn collaboratively in a feedback-intensive program that

prepares them for leadership in their chosen field. The curriculum is designed for immediate application to the workplace and develops presentation, facilitation, and problem-solving skills.

Students in this program complete 17 modules of study, attending class one night per week. They stay together as a unit for the duration of the program and work to expand their intellectual and professional range.

Liberal Arts Programs

Adult students have the option to enroll for credit classes in several formats: the traditional 15-week program, 8-week sessions, or weekend sessions. The 8-week and weekend sessions are available only to Wescoe students and incorporate pedagogical practices appropriate to this population.

Full-time day students may register for courses taught at an evening hour when those courses are part of the offerings appearing on the regular day schedule. Day students may register in courses offered through The Wescoe School 15-week session during the add/drop period on a space-available basis with permission from the appropriate department chair. No more than one such course may be registered in any one semester, and registration is possible only after consultation with the student's academic advisor.

Additionally, The Wescoe School offers major certificates in every major of the College. Many Wescoe students take courses to prepare for future graduate study or to upgrade or learn new skills. In addition to the bachelor's degree, Wescoe students may earn the associate of arts degree in selected majors or enroll in courses on a non-credit basis for their own enrichment.

Summer Study

Muhlenberg College offers a variety of day and evening courses during a series of summer sessions. These courses, while typically offered in an accelerated format, are unlike the courses in other 8-week and weekend sessions because they incorporate pedagogy appropriate for full-time undergraduate students. All course units and grades earned through summer study at Muhlenberg are attributed to the total program of the student and influence the cumulative grade point average and academic standing of the student accordingly. Summer study materials are available through The Wescoe School in early March.

SPECIAL INTERDISCIPLINARY PROGRAMS

DANA ASSOCIATES PROGRAM (DNA)

Director: Associate Professor Mohsin Hashim

The Dana Associates Program of Muhlenberg College provides a four-year experience for outstanding students. As applications for admission are received by the College, exceptional applicants are identified and invited to submit a separate Dana application. Invitees typically are near the top of their high school class, score 1300 (Critical Reading and Math) or greater on the Scholastic Aptitude Test, and, equally important, exhibit distinctive creativity, versatility, and talent.

The Dana Program emphasizes creativity and independence of thought through independent study. After completing the Dana First-Year seminar, Dana students complete 3.0 course units. It is recommended that Dana Scholars complete 1.0 unit of Dana Directed Studies, a Dana Internship for 1.0 unit, and the Dana Forum for 1.0 unit. Although students may substitute between Dana Directed Studies and Dana Internships and so choose to complete 2.0 units of mentorship or 2.0 units of internship, all Dana students must complete the Dana Forum.

Dana Program participants may major in any field of study offered at Muhlenberg. At the discretion of the major department, certain components of the program may be applied toward the major requirements.

Dana Scholars need to maintain a G.P.A. of at least 3.33. Those who successfully complete the Dana Associates Program are honored by receiving the designation "Dana Scholar" on their diploma and transcripts.

COURSES

100-199. Dana First-Year Seminar

955. Dana Forum

The Dana Forum is a directed independent study with a common theme. Dana seniors, in teams of two or three, will research with chosen faculty mentors a topic closely related to the College's Center for Ethic's theme for the academic year. That research will culminate in an open presentation for the College community.

960. Dana Associates Internship

975. Dana Associates Directed Studies

0.5 or 1.0 course units

Students will develop their Dana Associates Directed Study with a faculty member of their choice. Students are encouraged to develop projects that emphasize creativity or original thought rather than producing summaries of previous work. Dana Associates Directed Studies can take any form as long as it is agreeable to the student and the mentoring faculty member. The Study may culminate in a paper, performance, presentation, or any other final product deemed appropriate. Open only to Dana Associates.

MUHLENBERG SCHOLARS PROGRAM (MBS)

Director: Professor Theodore W. Schick, Jr.

The Muhlenberg Scholars Program is designed to enhance the education of talented students by providing unique opportunities for intellectual exploration, growth, and

development. Outstanding first-year students are invited to join the Scholars Program when they are admitted to the College. These individuals will normally have Scholastic Aptitude Test scores of 1300 (Critical Reading and Math) or greater, have graduated in the top 10th of their high school class, and have significant extracurricular accomplishments. Students already studying at Muhlenberg may be admitted to the Scholars Program no later than the fall semester of the sophomore year. To be considered for the program, students should be nominated by a faculty member and have an overall grade point average of at least 3.500.

Students who successfully complete the Scholars Program receive a special certificate at graduation as well as the designation “Muhlenberg Scholar” on their diploma and transcript. To be eligible for this distinguished honor, a student must have an overall grade point average of at least 3.500 and have achieved at least a 3.250 grade point average in the following honors courses:

- Scholars First-Year Seminar
- Scholars course in the Humanities
- Scholars course in the Social Sciences
- Scholars course in the Natural Sciences
- Senior Scholar Capstone Seminar
- Senior Scholars Project

Scholars courses are small, interdisciplinary, discussion-oriented courses in which the student is encouraged to grapple creatively with problems at the forefront of current research. The emphasis is on original source materials rather than textbooks. The goal is to create a community of inquiry where professor and student reason together about topics of current interest.

RJ FELLOWS PROGRAM (RJF)

Director: Associate Professor Lora Taub

The RJ Fellows Program was established at Muhlenberg College by the Scheller family in order to strengthen and develop the decision-making competencies of bright, talented, and hard-working liberal arts undergraduates. The Program realizes that the future is, and will always be, uncertain, and that personally fulfilling and productive lives derive from each individual’s ability to make intelligent and ethical decisions in the face of this uncertainty. While acknowledging that human beings inevitably learn many life lessons through trial and error, the Program also believes that education can be a powerful force in strengthening each individual’s ability to assess the future and make wise choices. The Program’s founders assert that liberal arts education, in particular, has the potential to provide individuals with a variety of analytical, problem-solving, ethical-assessment, and decision-making skills. The RJ Fellows Program is, therefore, deliberately interdisciplinary. Courses affiliated with the Program focus on process and methodology as well as information, and the Program

itself provides opportunities for students to reflect on and make connections among lessons learned and the implications of those lessons for making wise decisions.

The RJ Fellows Program prepares students who have exhibited particular intellectual and personal passion and aptitude for exploration of change in the world, including the nature of, adaptation to, and engagement with such change. The program will have three areas of study centering around: (1) the definition of models of change; (2) the examination, analysis, and interpretation of principal moments of change within history; and (3) the development of analysis and strategies to face contemporary and future changes.

The program includes the following courses:

- RJ Fellows First-Year Seminar
- RJ Fellows Designated Courses in Humanities, Natural Sciences, Social Sciences
- RJ Fellows Symposium
- Participation in RJ Fellows Senior Signature Interdisciplinary Course

SELF-DESIGNED MAJOR

Highly motivated students may propose a self-designed major not falling within one of the departments, divisions, or area study programs listed above. The proposal must include a coherent rationale for the structure and course content of the major and an endorsement of a faculty member willing to serve as an advisor. This proposal should be submitted in writing to the Dean of the College for Academic Life after consultation with the departments involved. The proposal must be approved by Curriculum Committee and the Provost, normally prior to the beginning of the junior year and never later than the end of the fifth semester. A student wishing to pursue this option should contact the Dean of the College for Academic Life.

SELF-DIRECTED INQUIRY PROGRAM (SDIP)

Director: Associate Professor Elizabeth McCain

The Self-Directed Inquiry Program (SDIP) meets the needs of exceptionally independent students who find their curiosity limited by the traditional curriculum and their intellectual aspirations constrained by College graduation requirements and by the regimen in conventional major programs. In order to qualify for the program, first-year students must demonstrate initiative and perseverance as learners and inquirers. Students interested in SDIP should first discuss their suitability with their advisors and then, during the spring term of their first year, contact the program's director about the application procedure which includes an essay detailing the student's intellectual interests and learning goals and an interview with members of the SDIP committee.

OFF-CAMPUS AND EDUCATION ABROAD

SEMESTER IN WASHINGTON, D.C. (WSH)

Campus Coordinator: Professor Alton J. Slane

Muhlenberg cooperates with thirteen colleges in the Lutheran College Washington Consortium who together offer a semester in Washington. The semester (fall or spring) is designed for juniors and seniors representing a variety of academic majors. In addition to seminars drawing upon the special resources available in Washington, there are hundreds of internship possibilities in government, social service agencies, religious groups, medicine, public interest organizations, business, and the arts.

COURSES

950. Special Topics for the Washington Seminar

The course will vary considerably from semester to semester and will utilize the variety of interests and specialties of the consortium faculties. The topic for the semester will be announced in advance. Visits to offices and agencies will be included, as will meetings with officials and experts in Washington. Recent (Spring Term 2006) special topics courses offered are: Global Agenda; Public Relations Seminar; Public Policy Issues; American Diversity; Art and Architecture; Washington Through Cinema; and Conflict and Compromise.

960. Washington Semester Internship

2 course units

Each student will serve 25 to 30 hours each week in an internship in an office or agency in Washington, usually in a field related to the student's major. A formal written report will be submitted to the Muhlenberg supervising faculty member at the conclusion of the internship. Pass-fail only, except for students enrolled in a practicum, where letter grades A through F, are assigned.

CROSS REGISTRATION: LEHIGH VALLEY ASSOCIATION OF INDEPENDENT COLLEGES (LVAIC)

Full-time, degree-seeking students who have completed at least 7 course units in good academic standing may enroll for up to two courses per semester at any one of the LVAIC member institutions (Cedar Crest College, DeSales University, Lafayette College, Lehigh University, and Moravian College). The student must obtain approvals from his or her faculty advisor. Courses must not be offered regularly by Muhlenberg College and must be within the bounds of a regular course load.

Courses enrolled through the LVAIC cross-registration process are considered Muhlenberg courses for degree requirement and grade point average purposes. Further information regarding the LVAIC policy may be obtained in the Office of the Registrar.

EDUCATION ABROAD PROGRAMS

In a world that is becoming increasingly interdependent, study abroad represents a significant means by which students may better prepare themselves to face challenges of the future. Muhlenberg College encourages students in all science, social science, arts, and humanities majors to study overseas at quality institutions in Europe, Australia, Asia, Latin America, and Africa. Muhlenberg supports two such discipline-specific education abroad opportunities: the London Theatre Program at Goldsmiths College, University of London during the fall semester and the program for Accounting, Business, and Economics majors at the University of Maastricht in the Netherlands, also offered during the fall semester. In addition, Muhlenberg has established exchange opportunities with several schools in European countries and in Argentina, Australia, and Japan.

Typically students study abroad for either a semester or for the academic year during their junior year although, upon receiving approval from the Dean of the College for Academic Life, students may study abroad during the fall semester of their senior year. Opportunities for summer study are available through several Muhlenberg departments and through the Lehigh Valley Association of Independent Colleges. Students who study abroad during the academic year receive the same financial aid package that would be provided were they to remain on the Muhlenberg campus.

Students interested in education abroad programs should consult with their faculty advisor and the International Programs Office staff during the fall semester of their sophomore year. To apply for study abroad, students first complete a Muhlenberg College Education Abroad application, supplying faculty references and their academic advisor's approval. Once approved to study abroad by Muhlenberg, students complete host institution application materials. The International Programs Office will forward all application materials to the overseas institution. Detailed information regarding admission procedures, transfer credit, and the fee structure is available from the International Programs Office.

MAASTRICHT EDUCATION ABROAD COURSES (MEA)

The following courses are offered through the Center for European Studies for students participating in the Maastricht education abroad program.

261. European Economic Integration

An outline of the effects of European integration on the economy and the main changes in the institutional economic environment of business. In addition, an introduction to the economic analysis of trade policy measures using traditional and modern theories will be given.

265. International Management & Business Policy

Introduction to the strategic management of international and multinational firms. Enterprise strategies with respect to the choice of geographic markets, modes of market entry, ownership policy, and sourcing will be discussed.

267. Global Marketing Strategy

This course is designed to provide an understanding of marketing strategy from an international, multinational, or global point of view.

THEATRE ARTS SEMESTER IN LONDON (LTS)

Theatre Arts majors have the opportunity to spend a semester in London studying at Goldsmith's College, University of London. Students in the program are integrated into the Goldsmith's Department of Drama and complete courses with British students. The program includes weekly trips to a broad range of current London theatre productions, studio courses in acting styles, approaches to text, and literature studies in Elizabethan and Modern Drama.

200. London Theatre

This course involves weekly visits to the wide range of theatre available in the capital. Each visit is introduced and each production is discussed in seminars.

207. Shakespeare's Theatre

A seminar course exploring the range and development of Shakespeare's plays as dramatic works in relation to the social, intellectual, and theatrical context of his time.

220. Modernisms & Postmodernity

A seminar/research course that critically examines and deconstructs notions of performance and cultural context. Fall semester.

221. Performance Theory & Practice

A seminar/research course considering the influence of theatre practitioners in relation to theatrical genres and contemporary models of theatre making.

222. Elements of Theatre History

A seminar/research course critically examining evidence of aspects of theatre history through a thematic rather than chronological approach. Fall semester.

301. Acting in London

This course examines, through practical workshops, different models of performance.

302. Scenographic Design

311. Culture & Performance

This course approaches the study of performance within a culturally diverse setting. Lectures and seminars introduce a range of theoretical issues in the field of multi-cultural performance, including cross-culturalism, interchanges, and globalization.

319. Theatre Technology

Supervised work within one of the specified areas for students with previous experience in scene design, costume design, or theatre technology.

LVAIC SUMMER STUDY ABROAD PROGRAM

In cooperation with the Lehigh Valley Association of Independent Colleges (LVAIC), Muhlenberg students have the opportunity to participate in a summer study abroad

program in German and Spanish (2 units). Each of the programs offers a total cultural experience. Therefore, no partial credit is allowed. The classroom instruction is reinforced through tutorials and augmented by numerous cultural and social events, including visits and excursions to selected points of interest. A proficiency examination will determine the level at which a student will enroll. Summer programs in French and Italian are also available. Students interested in any of these programs should consult with the chair of the Languages, Literatures, and Cultures department.

COURSES

LVC GRE. Elementary German Language & Culture Abroad **2 course units**

LVC SPE. Elementary Spanish Language & Culture Abroad **2 course units**

Intensive study of the fundamentals of German or Spanish with emphasis on speaking, listening, and reading comprehension, as well as basic writing skills, supplemented by an introduction to major aspects of contemporary German or Spanish civilization.

LVC GRI. Intermediate German Language & Culture Abroad **2 course units**

LVC SPI. Intermediate Spanish Language & Culture Abroad **2 course units**

Intensive practice of conversational German or Spanish, rapid review of basic grammar, the reading and analysis of moderately difficult texts, as well as the development of rudimentary writing skills, supplemented by the study of selected aspects of contemporary German or Spanish civilization.

LVC GRA. Advanced German Language & Culture Abroad **2 course units**

LVC SPA. Advanced Spanish Language & Culture Abroad **2 course units**

Intensive practice in spoken and written German or Spanish aimed at providing the student with extensive proficiency of expression and the ability to discriminate linguistic usage. Emphasis on idiomatic expressions and an introduction to stylistics. Reading and analysis of more difficult texts. Supplemented by in-depth study of selected aspects of contemporary German or Spanish civilization.

LVAIC SEMESTER IN BONN

In cooperation with the Lehigh Valley Association of Independent Colleges (LVAIC), Muhlenberg students have the opportunity to participate in a spring semester study abroad program in Bonn, Germany. The program offers advanced students of German an integrated academic and cultural experience. The classroom instruction is reinforced through tutorials. Students interested in this program should consult with the chair of the Languages, Literatures, and Cultures department.

COLLEGE COURSES

FIRST-YEAR SEMINARS (FYS)

First-Year Seminars are small, discussion-oriented courses that provide entering students with the opportunity to work closely with a faculty member. Required of all first-year students and normally limited to an enrollment of 15, First-Year Seminars promote intellectual discussion and critical thinking, reading, and writing skills.

Offered by faculty members from departments throughout the College, the seminars vary in their subjects and aims. Some examine a topic from an interdisciplinary perspective; others focus on particular issues or questions within a discipline. What all of the First-Year Seminars share is an emphasis on thinking critically about the values and assumptions underlying various approaches to knowledge.

Because they are primarily concerned with developing critical thinking, reading, and writing, First-Year Seminars are writing-intensive. Evaluation will be based on students' writing rather than on examinations. The seminars will teach participants how to formulate a thesis, how to collect, evaluate, and cite evidence that supports and qualifies this thesis, and a seminar will teach participants what an argument, analysis, or interpretation is and will give students practice in constructing and evaluating sound ones. Students will also learn how to revise their work, rethinking their ideas with the help of the instructor's comments on preliminary drafts. In sum, First-Year Seminars introduce students to the life of the mind—to what it means to think deeply and to talk and write critically about ideas; seminars model and encourage students to participate in thoughtful, critical, and intellectual reflection and conversation.

SPECIAL TOPICS (X80)

Departments may offer at their discretion special topics courses not listed in this catalog. While they may be offered at different levels, all special topics courses will be numbered in the x80's. Descriptions may be found in the course schedule booklet, on the Registrar's web site, or in the Office of the Registrar.

INDIVIDUALIZED INSTRUCTION

No more than a total of 4 course units may be earned through any type of individualized instruction to meet the 34 course unit degree requirement except as required by special programs. No internship, practicum, or independent study/research course may be used to satisfy a general academic requirement. Internships do not count toward the three course pass-fail limit.

Students may enroll only one internship or practicum during a term except for internships taken as part of approved programs such as the Semester in Washington, D.C., Dana Associates, and study abroad. Students may enroll for independent study/research courses during a term, but only one independent study/research course may be taken concurrently with an internship or practicum. Students participating in special programs, such as the Washington Semester or study abroad, are exempt from term-based enrollment limits on internships, practica, or independent study/research courses. The approval of the appropriate department chair, the academic advisor, and a faculty sponsor are required for all individual instruction.

INTERNSHIPS (960) AND PRACTICA (965)

An internship is work experience undertaken for the purpose of applying knowledge from the classroom to a practical work environment and actively reflecting on that activity. Internships and practica are limited to full-time, degree-seeking students who have completed at least 16 course units in good academic standing or part-time students enrolled through the Wescoe School of Muhlenberg College.

Internships and practica must be registered prior to the end of the third week of classes in the term in which the work is recorded. For the summer term, internships and practica must be registered no later than a date noted in the summer academic calendar. The deadline for submitting final grades for such courses is that term's deadline for the final grades. Credit for internships and practica cannot be awarded retroactively.

Each internship or practicum is to be designed in consultation with a faculty sponsor and an on-site supervisor. Ordinarily, no more than one course unit is awarded for each internship or practicum, and at least 9-12 hours of work per week (Fall/Spring) or 126-168 hours per term (Fall/Spring/Summer) are required for each course unit earned.

Such courses will include an academic project to be defined by and submitted to the faculty sponsor for evaluation. This academic project may be written or presented, at the discretion of the faculty sponsor. The internship or practicum on-site supervisor will submit a written evaluation of the student's work which the faculty sponsor will take into consideration when assigning a grade. Internships will be graded pass-fail. Practica are assigned letter grades, A through F.

For all internships and practica, the faculty sponsor must explicitly detail his or her expectations for the student as early as possible in planning the experience. This learning contract describes the goals and what work will be done for each internship or practica. The faculty sponsor normally evaluates a student's work in an individualized instruction course according to standards at least as high as those used to evaluate work in traditional courses.

An internship manual with guidelines and sample learning contracts is available through the Office of the Dean of the College for Academic Life.

INDEPENDENT STUDY/RESEARCH (970)

An independent study/research course can vary by academic department or discipline. It may be a student-inspired and student-initiated project or a faculty-directed research project. Independent study/research courses normally do not cover the same material as or material similar to that covered in regularly offered courses.

Independent study/research courses must be registered by the add/drop deadline of the term in which they are recorded. Credit for independent study/research courses cannot be awarded retroactively.

Each independent study/research course is to be designed in consultation with a faculty sponsor. Typically, no more than one course unit is awarded for each course, and no fewer than 9-12 hours of work per week (Fall/Spring) or 126-168 hours per term (Fall/Spring/Summer) are required for each course unit earned.

For all such courses, a learning contract will describe the goals of the independent study/research and specify what work will be done by the student. Independent study/research courses are assigned letter grades, A through F. For student-inspired and student-initiated independent study/research courses, the student must submit a proposal to the faculty sponsor before registering for the course.

COURSE UNITS (Equivalence)

Muhlenberg College uses a course system (units) intended to emphasize the mastery of subject matter in contrast to the credit system that measures achievement in terms of time spent in class. A course as a unit of instruction may include a combination of lecture, discussion, recitation, computer work, group projects, and laboratory work. The course is the entire learning experience, not merely the time spent in the classroom.

Each course unit is of equal value and should be considered the equivalent of 4 semester hours for conversion purposes. A full-time degree candidate is typically enrolled for 4 course units during a semester.

Each course listed in this catalog should be assumed to be 1 course unit unless an alternate value is given.

ACCOUNTING (ACT)

Department Chair: Professor Arthur Raymond
Associate Professor and Accounting Coordinator: Irwin
Associate Professor: Doran
Assistant Professor: Knox
Internship Director: Eisenberg

The Muhlenberg accounting program provides a unique opportunity for students to benefit from a strong liberal arts education while obtaining knowledge and skills in accounting, finance, economics, and business. By proper selection of accounting major and elective courses, students will be prepared to continue on with graduate study or to

pursue a variety of careers in public accounting, law, the corporate world, or not-for-profit organizations.

Courses focus on broad accounting concepts and issues but also develop the communication, technical, and interpersonal skills necessary to succeed in the professional world today. Students are encouraged to enhance their leadership skills, to develop high ethical standards, and to achieve their full potential throughout this program. A variety of options to pursue study abroad, obtain internships, or spend a semester in Washington, DC also exist.

COURSE DESIGN

All accounting courses include both written and oral communication, critical analysis of data, evaluation of ethical dilemmas, study of global issues, and use of information technology for research and presentation. Courses are designed and taught following guidelines prepared by professional organizations and the Accounting Education Change Commission (AECC).

Students learn in a state-of-the-art computerized classroom using information technology as a tool for processing, analyzing, and communicating financial information. Students frequently work cooperatively and collaboratively to build teamwork and interpersonal skills as they analyze, make decisions, and apply critical and creative thinking skills. This prepares them for changing conditions and requirements in the professional world. Active learning is achieved by utilization of case studies and financial analysis of publicly held companies.

SPECIAL PROGRAMS

150 Semester Hour Options

Many students choose to earn their bachelor degree in accounting at Muhlenberg while simultaneously taking additional coursework to earn 150 semester hours of education. The American Institute of Certified Public Accountants and most state boards of accountancy require 150 semester hours of education prior to licensure as a Certified Public Accountant (CPA). With this option, students graduate with additional course units above the requirements for graduation with an accounting major. They accomplish this by taking courses during the summer or by enrolling in extra courses during the academic year. Students who desire to be licensed in Pennsylvania may choose from a broad range of courses. Those who plan to be licensed in a state other than Pennsylvania must carefully research and plan their coursework to meet licensing requirements in the state of their choice.

Muhlenberg also has an articulation agreement with Lehigh University's Master of Science in Accounting and Information Analysis program. This allows students who carefully plan their coursework at Muhlenberg and who have strong academic records to be admitted into Lehigh's program as a fifth year of education.

Internship and Mentoring Opportunities

The Accounting, Business, and Economics Department has an extensive internship program that provides accounting majors with a wide range of opportunities to gain valuable work experience. Internships may be taken during the summer or during the students' junior or senior years and are available with Big Four professional services firms, regional CPA firms, major corporations, and local businesses. Mentoring opportunities also exist with alumni, members of local professional organizations, and Big Four firms.

Education Abroad

In addition to Muhlenberg's traditional education abroad programs, an international program has been designed especially for students in accounting, business, and economics. The program is offered through the Center for European Studies at the University of Maastricht in the Netherlands and would generally be enrolled during the fall semester of the junior year. In this program students attend courses in European business, economics, and politics, taught in English. Besides deepening global and cultural awareness, students have opportunities to travel to France, Belgium, and Germany, all of which are nearby, and meet business and political leaders from those countries.

Semester in Washington, D.C.

Students who select this program have opportunities for accounting internships with public accounting firms, banks, government agencies, and not-for-profit organizations. In addition to the internship experience, the program includes seminars and field trips drawing on the special cultural and political resources available in Washington. Participants also experience living and working in our capital with students from other Lutheran colleges throughout the United States. Students frequently opt for this program during their junior or senior year or during the summer months.

Students who plan to complete 150 hours of coursework, study abroad, or participate in other special programs are encouraged to enroll ACT 101 Financial Accounting during the *spring* semester of their first year at Muhlenberg.

PROGRAM REQUIREMENTS

Major Requirements

In order to declare and remain an accounting major in good standing, a student must achieve and maintain a cumulative grade point average of at least 2.000 in courses applicable to the major. Major requirements must be taken at Muhlenberg unless prior written permission is obtained from the department chair or accounting coordinator.

Students majoring or minoring in accounting cannot take accounting, business, economics, or finance courses on a pass-fail basis.

Because of the many special options and programs available to accounting majors, all students should carefully plan their programs in consultation with their faculty advisor to make sure that they meet graduation requirements and, if applicable, state CPA licensing or graduate program requirements.

A major in accounting must complete 12 courses as outlined below:

Required Courses:

- ECN 101 Principles of Macroeconomics
- ECN 102 Principles of Microeconomics
- ACT 101 Financial Accounting
- ACT 201 Accounting Information Systems
- ACT 224 or 225 Cost/Managerial Accounting
- ACT 320 or 321 Intermediate Accounting I
- ACT 322 or 323 Intermediate Accounting II
- ACT 326 or 327 Concepts of Federal Taxation
- MTH 144 Introduction to Statistical Analysis (preferably) **OR**
- MTH 104 Statistical Methods

Elective Courses (choose three):

- ACT 330 or 331 Advanced Accounting
- ACT 332 or 333 Auditing
- ACT 334 Fraud Examination
- ACT 401 Senior Seminar in Accounting
- ECN 332 or 333 Public Finance
- FIN 237 or 238 Corporation Finance
- FIN 330 or 331 Monetary Economics
- FIN 360 or 361 Advanced Topics in Financial Management
- BUS 225 Business Law I
- BUS 226 Business Law II
- BUS 235 or 236 Management
- BUS 239 or 240 Marketing

Although there are no prescribed combinations of electives, students should choose electives only after close consultation with their faculty advisor. Electives can and should be enrolled with some specific objective in mind. Certain graduate programs and career paths may require that the student take more than the 12 courses specified above to be adequately prepared to enter the program or profession. Internship opportunities are also available to accounting majors although they do not count toward the major requirements.

Minor Requirements

A minor in accounting must complete six courses as outlined below:

Required Courses:

ECN 101 Principles of Macroeconomics **OR**
 ECN 102 Principles of Microeconomics
 ACT 101 Financial Accounting
 ACT 201 Accounting Information Systems
 ACT 224 or 225 Cost/Managerial Accounting
 ACT 320 or 321 Intermediate Accounting I
 ACT 322 or 323 Intermediate Accounting II

150 SEMESTER HOUR OPTIONS

In order to provide flexibility to students who choose to meet the standards set by the American Institute of Certified Public Accountants (AICPA) and many state governments for entry into the accounting profession, the accounting major at Muhlenberg can be taken in conjunction with graduate programs offered by other institutions or can be expanded to include additional coursework.

Option 1: Accounting Major and Additional Coursework – Students graduate with approximately 38 units by completing the accounting major and the bachelor degree requirements AND choosing *additional* courses above and beyond graduation requirements for an AB in accounting. **Courses usually should be selected from the accounting major elective choices and/or the following list:**

COM 338 or 339 Organizational Communications
 ECN 334 or 335 International Trade & Globalization
 ECN 350 or 351 Econometrics
 ACT 970 Accounting Independent Study/Research
 BUS 233 or 234 Operations & Information Systems
 BUS 331 or 332 Management Science
 BUS 333 or 334 Forecasting Models
 BUS 341 or 342 Global Marketing
 BUS 360 or 361 Organizational Behavior
 FRN 310 or 311 French for the Professions
 GRM 310 or 311 Business German
 SPN 310 or 311 Business Spanish
 PHL 245 Business Ethics
 PSY 310 Industrial/Organizational Psychology
 PSC 221 or 222 Government Regulation of Business
 SPC 250 Basic Speech
 WSH 960 Washington Semester Internship
 Dana Directed Studies as approved by Accounting Coordinator
 University of Maastricht courses as approved by Accounting Coordinator

Other courses as approved by Accounting Coordinator

Each state has its own specific course requirements for the CPA license, so students are encouraged to discuss their choice of additional courses with their advisors as early in their accounting major as possible.

Option 2: Accounting Major and Articulation with Another Institution Granting a Graduate Degree – Students enroll four years at Muhlenberg and one year at another institution. They graduate with a Bachelor of Arts with a major in accounting from Muhlenberg and receive a graduate degree from the other institution. We currently have an articulation agreement with Lehigh University which has a Master of Science in Accounting and Information Analysis program.

Option 3: Accounting Major – Students complete the accounting major and bachelor degree requirements. At some later time, they have the option of enrolling additional coursework to fulfill the 150 semester hour requirement.

ACCOUNTING COURSES

101. Financial Accounting

The course will provide the student with a fundamental understanding of accounting as a means for decision making by integrating preparation of financial information and written reports for a variety of users with case discussions and oral presentations. Students will participate in analysis of a company using financial data. Further analysis of the industry with interfirm comparisons will be done in teams.

Prerequisite: ECN 101 Principles of Macroeconomics or ECN 102 Principles of Microeconomics

201. Accounting Information Systems

This course will build a broad knowledge of the principles, concepts, and internal controls that support accounting information systems. The identification, collection, processing, analysis, interpretation, and communication of the accounting information needs and requirements of an organization will be examined in relationship to the roles accountants play as designers, users, evaluators, and controllers of those systems. Accounting software, the Internet, databases, and spreadsheets will be used as vehicles for analysis and problem solving. Integrated into the course will be current issues such as electronic commerce, data security, data warehousing, and enterprise resource planning systems.

Prerequisite: ACT 101 Financial Accounting with a grade of 'C' or better required, 'B' or better recommended.

224, 225. Cost/Managerial Accounting

A study of cost and managerial concepts and their application to the planning and control of manufacturing and service firms. Topics include accounting for the production process (job order, process, standard, and activity based costing); performance and productivity measurement (profit planning, variance analysis, and responsibility accounting); and revenue and cost analysis for decision making (cost estimation, C-V-P analysis, and differential cost analysis).

Prerequisite: ACT 101 Financial Accounting. ACT 320 or 321 Intermediate Accounting I is recommended. Meets general academic requirement W when offered as 225.

320, 321. Intermediate Accounting I

Theoretical bases for accounting practices are explored along with a detailed analysis of the financial statements and accounting principles for valuing assets. Topics include the conceptual framework of accounting, balance sheets, income statements, statements of cash flow, and current and long-term assets. Students will continue to use computers as a tool for preparation, analysis, and presentation of financial data.

Prerequisite: ACT 101 Financial Accounting. ACT 201 should also be completed or enrolled concurrently. Meets general academic requirement W when offered as 321.

322, 323. Intermediate Accounting II

Theoretical bases of accounting practices continue to be explored as students learn valuation and reporting techniques for current and long-term abilities, stockholders' equity, income taxes, post-employment benefits, and leases. Emphasis is placed on accounting practices for large corporations such as earnings per share and SEC reporting. Four class hours per week.

Prerequisite: ACT 201 Accounting Information Systems and ACT 320 or 321 Intermediate Accounting I
Meets general academic requirement W when offered as 323.

326, 327. Concepts of Federal Taxation

An analysis of income tax fundamentals focusing on the development of tax concepts, tax planning, the Internal Revenue Code, and rulings and decisions interpreting the code. Topics covered will include tax issues, reporting requirements, required treatments, and recent developments in taxation.

Prerequisite: ACT 320 or 321 Intermediate Accounting I
Meets general academic requirement W when offered as 327.

330, 331. Advanced Accounting

This course will introduce corporate consolidations and mergers and show the procedure needed to prepare and present the financial statements of the consolidated entity. Partnership accounting, especially dissolution and liquidation, and accounting for government and non-profit organizations will be covered as well as international accounting issues.

Prerequisite: ACT 322 or 323 Intermediate Accounting II
Meets general academic requirement W when offered as 331.

332, 333. Auditing

Procedures involved in the conduct of external and internal audits and special investigations as well as the nature, scope, and form of opinions offered by professional auditors. Procedures for study and evaluation of internal accounting controls, the application of statistical tools, and legal and ethical issues will also be covered.

Prerequisite: ACT 322 or 323 Intermediate Accounting II
Meets general academic requirement W when offered as 333.

334. Fraud Examination

This course helps students understand and apply the theory, terminology, and analytical techniques that are used in the investigation of financial crimes. Topics include the nature of fraud, theories of fraud, current research related to fraud, criminal statutes related to financial crimes, forensic accounting procedures, fraud examination methodology, investigative techniques used in solving financial crimes, interviewing, rules of evidence, sources of information, use of technology to detect and prevent fraud, and current issues in financial investigations. Experiential learning activities used in resolving financial crimes will be used.

Prerequisite: ACT 320 or 321 Intermediate Accounting I

401. Senior Seminar in Accounting

Advanced study of selected topics and an examination of the recent literature in accounting. The student examines numerous readings, presents an evaluation of the readings in the seminar, and prepares a paper on a specific topic. Open to seniors only.

Prerequisite: ACT 322 or 323 Intermediate Accounting II

960. Accounting Internship

Under close faculty supervision, students will be placed in internship positions with local business and other related organizations in order to gain experience in the application of theories and concepts learned in the classroom. Students will be required to document their experiences in a written journal, to share their experiences with others in a classroom setting, and to prepare a significant term paper or project report and oral presentation. Open only to junior and senior majors or minors in good academic standing. Pass-fail only.

AFRICAN AMERICAN STUDIES (AAS) (Minor only)

Director: Assistant Professor Charles Anderson

African American Studies is an interdisciplinary study of the history, culture, and socio-economic experience of African-Americans that has had a prominent place in liberal arts curricula in the United States for several decades. The field fosters knowledge and research methods drawn from several academic fields, with the goal of enabling students to enhance their understanding of African-Americans' unique social circumstances and heritage.

Minor Requirements

The minor in African American Studies consists of six courses.

Required courses:

AAS 101 Introduction to African American Studies
ENG 358 or 359 African American Literature
HST 365 The African-American Experience I: to 1896 OR
HST 367 The African-American Experience II: since 1896
SOC 224 American Ethnic Diversity OR
SOC 335 Inequality & Power

Electives: Students must complete two electives

One general elective which may be satisfied by any course that engages topics of African American or Africana experience, including the following already existing courses:

ATH 224 Peoples of Africa
ATH 235 Anthropology of the Caribbean
ATH 260 Vodou in Haiti & the Diaspora
COM 372 or 373 Race & Representation
ENG 208 or 209 African-American Drama
FRN 330 or 331 Francophone Cultures of Africa & the Caribbean
PSC 237 or 238 Government & Politics of Africa

One arts elective which must be satisfied by a course engaging African American or Africana arts (art, dance, film, music, or theatre). Possible already existing courses include the following:

DNC 150 African Dance & Cultures
MUS 225 World Music
MUS 228 History of Jazz
THR 230 or 231 Topics in Theatre History: Post-Independence African Theatre

101. Introduction to African American Studies

This course will provide an introduction to the interdisciplinary study of major themes and topics in African American experience. It will familiarize students with some of the central debates and problems within the

field: Is there such a thing as a “Black” experience? How African is African-American culture? What kinds of theories can we advance to explain the relationship between race and a range of social and economic indicators? How have scholars traditionally understood the connections between Africa, the Caribbean, and the Americas? How do issues of gender affect issues of race? What new insights do postmodern and postcolonial theories offer on all these subjects? In addition, AAS 101 will draw on the instructor’s scholarly orientations; topics of study will include African American economic, political, and social institutions and their developments over time; artistic, intellectual, and social movements and their contributions to African American cultural history; and issues of identity in relation to changing social and cultural structures. Students will read major interdisciplinary works in historical and cultural studies and critical race theory. Students will explore influential theories and research methods in African American studies as well as the basic methods of interdisciplinary analysis and interpretation.

AMERICAN STUDIES (AMS)

Director: Professor Mary Lawlor

The discipline of American Studies is aimed at exploring American society and culture(s) from multiple disciplinary perspectives. Students are invited to shape their majors by choosing, based on their interests and strengths, among courses in a variety of fields, for example: history, literature, political science, anthropology, sociology, art, music, theatre, economics, religion, philosophy, communication, and women’s studies.

Honors in American Studies

The honors program in American Studies is designed for majors who are interested in doing graduate work in American Studies or in another, cognate field. Students must be especially motivated and committed to the interdisciplinary intellectual work that this concentrated, intensely focused experience demands. Students are invited by a faculty member during the spring semester of junior year to participate in the American Studies Honors Program. The course work includes two semesters of independent study in the senior year devoted to the development and completion of an honors thesis. Students submit a prospectus for their honors program by the end of the spring semester of junior year. The prospectus should describe a year-long independent study that engages approximately two different academic disciplines and a thesis that, in its final draft, will consist of at least 40 pages.

Major Requirements

Majors complete eleven courses, including the core requirements, the senior seminar, and six electives. To remain an American studies major, a student must maintain a 2.000 grade point average in all courses designated as meeting the major requirements.

Required Courses:

AMS 101 Introduction to American Studies
ENG 215 American Writers

PSC 101 Introduction to American National Government

HST 100-149 Introduction to History (topic with American history focus)

Senior Seminar to be chosen in consultation with faculty advisor

Six electives in areas focusing on American cultural issues in any discipline. The electives are spread over at least two different disciplinary areas, and at least three of them must be numbered 300 or above. No 100 level courses can be counted among the electives.

Senior Seminar: chosen in consultation with faculty advisor and Director of American Studies from seminars focusing on topics in American culture(s) and history offered by participating departments.

Major designated writing intensive courses will be determined in consultation with the Director of American Studies.

Students are encouraged (but not required) to use the courses in the elective field to build concentration in such areas as ethnic studies, gender studies, or a field that reflects the particular student's interests, for example, law and literature, art and politics, or media and society.

101. Introduction to American Studies

This course will provide an introductory exposure to the study of American culture through the interdisciplinary methods of American Studies. It will examine a particular topic concerning American cultural and social formations from a specific set of disciplinary perspectives that will change from term to term, depending on the instructor's scholarly orientations. Topics for Introduction to American Studies in different semesters would include, for example, "Representations of the American City", "American Cultural Landscapes", "The Romance of Nature in America", "Performing Class in America", "Americans Abroad", "The Veteran in American Film and Literature", and "Immigration in the Twentieth Century". The common methodology will be, first, the focus on American cultural and social formations and, second, the deployment of at least two different disciplinary perspectives that will supplement as well as complement each other in the process of framing critical investigation of the topic. Pluralizing the perspective of study is intended not only to intensify the engagement with the given topic but to emphasize that identifications of America and of American national culture are contested and changeful. The introductory course will give students the opportunity to become familiar with influential theories in the development of the field that will help prepare them for more advanced course work in American Studies in addition to offering them the chance to investigate the particular topic at issue. The course will be required for majors in American Studies and open to all students.

Meets general academic requirement H.

ART (ARH, ARS)

Department Chair: Professor Joseph Elliott

Professors: da Costa Nunes, Sherk

Associate Professors: Barnes

Assistant Professor: Emmons, Osterweil

Lecturer: Tuttle

The Department of Art seeks to allow students to explore art, visual creativity, and their history within the liberal arts tradition. Its goals are to provide students with a

fundamental understanding of art in a cultural context, to introduce them to the rudiments of visual language, to develop and strengthen their technical skills, and to acquaint them with the challenges facing artists in contemporary society. It is designed to prepare students to meet the entrance requirements of graduate schools and prepare for a life in art.

The major is organized along two sequences: the studio arts and art history. Art history classes include both general historical surveys and in-depth analyses of particular periods. Studio art classes explore the central problems of direct observation of nature and are designed to develop a personal vocabulary, creative problem-solving, and a sensitivity to the visual world. Studio majors may move among or concentrate on any of the following: painting, printmaking, drawing, sculpture, or photography. ARS 401 Senior Studio Seminar is taught each fall as a culminating studio experience that introduces studio majors to aspects of the professional art world. Senior Honors Seminar is available to highly motivated students.

All art majors are encouraged to participate in activities in the visual arts taking place in the local region, in particular the exhibitions held at the Martin Art Gallery and the Allentown Art Museum, and in nearby New York and Philadelphia. Group excursions are regularly organized to take advantage of the College's ideal geographic proximity to these professional art centers. Student internships are obtained for those who wish to acquire experience in the professional art world.

Honors Program

Selected seniors are invited to enroll in ARS 405 Honors in Studio Art during the spring semester. The culminating event of this experience is an exhibition in the Martin Art Gallery.

PROGRAM REQUIREMENTS

Art majors must take a minimum of nine courses, regardless of which sequence they choose to pursue. All majors are encouraged to take ARH 217 or 218 Modern Art. All courses enrolled outside the department must be approved for contribution to the major.

Studio Arts Sequence

Every studio major is required to explore a single medium through the third course: ARS 303 Drawing III, ARS 304 Sculpture III, ARS 305 Photography III, ARS 310 Printmaking III, or ARS 320 Painting III.

Studio Major Requirements (9 courses)

- ARH 101 Introduction to Art History I
- ARH 102 Introduction to Art History II
- ARS 113 Drawing Studio

All three courses should be completed by the end of the sophomore year.

At least two of the following courses:

ARS 104 Sculpture I

ARS 105 Photography I

ARS 110 Printmaking I

ARS 120 Painting I

At least one 300 level studio course

A writing intensive course in the department

ARH 401 Senior Studio Seminar

Studio Minor Requirements (5 courses)

ARH 101 Introduction to Art History I **OR**

ARH 102 Introduction to Art History II

ARS 103 Drawing I

Three additional courses, including at least one 200 level studio course

Art History Sequence

Art majors who pursue the art history sequence must enroll in the two required art history courses as well as seven additional courses. The majority of advanced art history courses are offered on a three year rotating schedule. Art history majors may undertake either an internship in museum or gallery studies or an independent study in research methods or intensive reading.

Art History Major Requirements (9 courses)

ARH 101 Introduction to Art History I

ARH 102 Introduction to Art History II

These two courses should be completed by the end of the sophomore year.

A writing intensive course in the department

7 other courses within the department

Art History Minor Requirements (5 courses)

ARH 101 Introduction to Art History I **OR**

ARH 102 Introduction to Art History II

A writing intensive course in art history

3 other art courses

HISTORY OF ART COURSES (ARH)

101. Introduction to Art History I

A survey of the major works of architecture, painting, and sculpture of Western Civilization from the pre-historic period to the Late Middle Ages. Elements of style and the relationship of the work of art to its historical era are stressed. Offered every fall semester.

Meets general academic requirement A.

102. Introduction to Art History II

A survey of the major works of architecture, painting, and sculpture of Western civilization from the Renaissance to the modern era. Elements of style and the relationship of the work of art to its historical era are stressed. Offered every spring semester.

Meets general academic requirement A.

103, 104. History of Modern Architecture

A survey of architectural history from the eclectic historicism of the late Victorian period to the present in America and Europe; an analysis of style, materials, and the philosophy underlying the development of modern architecture. Offered every two years.

Meets general academic requirement A (and W which applies to 104 only).

201, 202. Ancient Art

A survey of Aegean, Greek, and Etruscan art. An analysis of stylistic modes and thematic concerns and their relationship to historical and cultural contexts. Offered every three years.

Meets general academic requirement A (and W which applies to 202 only).

205, 206. Eighteenth Century Art

A survey of European painting, sculpture, and architecture from 1680 to 1780; an analysis of stylistic modes and thematic concerns and their relation to historical and cultural contexts. Offered every three years.

Meets general academic requirement A (and W which applies to 206 only).

207, 208. Baroque Art

A survey of painting, sculpture, and architecture from 1580 to 1680; an analysis of stylistic modes and their relationship to historical and cultural contexts. Offered every three years.

Meets general academic requirement A (and W which applies to 208 only).

209, 210. Nineteenth Century Art

A survey of European painting from 1780 to 1880. Emphasis is placed on the development of Neo-Classicism, Romanticism, Realism, and Impressionism, stylistically and in relation to their cultural and historical contexts.

Meets general academic requirement A (and W which applies to 210 only).

211, 212. American Art

A survey of painting, sculpture, and architecture from pre-Revolutionary times to the early twentieth century. An analysis of style and subject matter, it considers the imagery from cultural, historical, political, and social perspectives. Offered every three years.

Meets general academic requirement A (and W which applies to 212 only).

213, 214. Traditional Chinese Art

A survey of painting, sculpture, and architecture of traditional China; an analysis of the stylistic modes and their relationship to historical and cultural contexts. Offered every three years.

Meets general academic requirement A or D (and W which applies to 214 only).

215, 216. British Art

A survey of painting and graphic art from the Renaissance to the modern era. An analysis of style and subject matter, it considers the imagery from cultural, historical, political, and social perspectives.

Meets general academic requirement A (and W which applies to 216 only).

217, 218. Modern Art

A survey of painting and sculpture in Europe and America from 1880 to the present. The evolution of style is examined in context of social, historical, and cultural issues. Offered every two years.

Meets general academic requirement A (and W which applies to 218 only).

219, 220. Traditional Japanese Art

A survey of painting, sculpture, and architecture of traditional Japan; an analysis of the stylistic modes and their relationship to historical and cultural contexts. Offered every three years.

Meets general academic requirement A or D (and W which applies to 220 only).

230, 231. History of Photography

A survey of photography from its invention to the present. It will consider the development of a photographic aesthetic, technical advances, and the relationship between photography and the other visual arts. Offered every two years.

Meets general academic requirement A (and W which applies to 231 only).

301, 302. Italian Renaissance Art

A survey of painting, sculpture, and architecture of Italy from about the time of Giotto to the death of Michelangelo; an analysis of stylistic modes and thematic concerns in relation to historical and cultural contexts. Offered every three years.

Meets general academic requirement A (and W which applies to 302 only).

303, 304. Painting in Northern Europe 1400-1570

A survey of painting in the Low Countries, France, Germany, and Austria from its origins in manuscript illumination to the death of Bruegel; an analysis of stylistic modes and thematic concerns in relation to historical and cultural contexts. Offered every three years.

Meets general academic requirement A (and W which applies to 304 only).

305, 306. Museum Studies

Provides a hands-on approach to the practices of curating and preparing exhibitions and the principles of exhibition design; the course will enable a better understanding of the significance of the visual arts in society, the educational role of museums, the physical care and handling of material objects, and the expertise needed to maintain collections and mount exhibitions. Offered every two years.

Prerequisite: ARH 101 Introduction to Art History I and ARH 102 Introduction to Art History II

Meets general academic requirement W when offered as 306.

320-29. Art History Seminar

This is an advanced course devised to accommodate a wide variety of specialized topics. It may examine either the art of an individual nation or culture or a specific style or theme. It may be interdisciplinary in its focus to explore works of art in a broader cultural and/or historical context. Topics are announced prior to registration. Offered every two to three years.

Prerequisite: declared majors or minors

STUDIO ARTS COURSES (ARS)

103. Drawing I

An introduction to problems in visual perception and delineation of pictorial fundamentals incorporating traditional and non-traditional drawing media. Students examine various theoretical perspectives. Work from the still life and the human figure will be emphasized. Four contact hours per week.

Meets general academic requirement A.

104. Sculpture I

An introduction to the development of awareness and control of the basic elements of the three-dimensional language. An emphasis upon the issues surrounding direct observation and the development of a personal vocabulary. Work from the human figure will be emphasized. Four contact hours per week.

Meets general academic requirement A.

105. Photography I

An introduction to the fundamentals of black and white still photography dealing with seeing photographically, operating the camera, processing, and printing. Emphasis is on space, form, and time

through the utilization of existing light. The student must provide his or her own 35 mm camera, but it is advisable not to do so before consulting the instructor. Four contact hours per week.

Meets general academic requirement A.

106. Visual Foundations

An introduction to the elements of form and space that underlie all visual art. Using simple materials, design projects explore line, plane, and mass and develop the student's ability to think visually in an abstract way. Strongly suggested for anyone interested in the fields of architecture, graphic design, and communication. Four contact hours per week.

Meets general academic requirement A.

110. Printmaking I

An Introduction to the basic printmaking techniques of woodcut, linoleum cut, lithography (transfer techniques), monoprinting, collagraph, drypoint, intaglio (engraving), and non-toxic intaglio (etching). Students examine historical approaches and begin to explore personal expressions. Four contact hours.

Meets general academic requirement A.

113. Drawing Studio

Drawing Studio is an accelerated introduction to drawing and two-dimensional analysis of the visual world. Based on observation and an introduction to the history of drawing, this class will explore conventions of representation within a studio context. The class may include an exhibition of work produced.

This class is intended for majors and those interested in a more substantial introduction to art.

Meets general academic requirement A.

120. Painting I

An introduction to the problems of line, form, color, texture, and space in the painting medium. Varied levels of ability and interests are given consideration on an individual basis. Four contact hours per week.

Meets general academic requirement A.

130. Ceramics I

An introduction to the basic techniques of ceramics with an emphasis upon design as an organic outgrowth of the ceramic process. Currently taught on the campus of Cedar Crest College. Four contact hours.

Meets general academic requirement A.

203. Drawing II

An introduction to a broad range of compositional problems, subject matter, and life drawing, allowing the exploration of expressive potential of drawing in a variety of media. Four contact hours per week.

Prerequisite: ARS 103 Drawing I, ARS 113 Drawing Studio, or ARS 213 Drawing from Nature

204. Sculpture II

A continued study of three-dimensional art forms with an emphasis on material and techniques within the context of individual projects and investigations. Four contact hours per week.

Prerequisite: ARS 104 Sculpture I

205. Photography II

A continued study of photographic art and darkroom experience that emphasizes the refinement of craft and the development of personal vision. Options include use of large format cameras, flash, and studio lighting techniques. Four contact hours per week.

Prerequisite: ARS 105 Photography I

210. Printmaking II

A continued study of printmaking techniques introduced in Printmaking I as well as an introduction to photo-intaglio and plate lithography techniques and alternative processes such as cyanotype and lazertran. Students will develop editioned colored images, learn bookbinding, and work on a group portfolio project. Four contact hours per week.

Prerequisite: ARS 110 Printmaking I

213. Drawing from Nature

Referring exclusively to a series of natural objects, including mineral, plant, animal, and human specimens, the course includes a variety of media and aims to develop both analytic and expressive skills of drawing. The course focuses on the studio experience but includes as well the study of significant historical examples of drawing from nature. Work from natural forms, including the human figure, will be emphasized. Four contact hours per week.

Meets general academic requirement A.

215. Photography & Digital Media

Starting with photographic images, this course explores computers as a tool to adjust, reform, and fabricate new images. Working with Adobe Photoshop, students learn scanning, image control and alteration, montage techniques, and various output technologies. The history and graphic principles of collage and montage form the intellectual basis for similar work in the digital environment. Four contact hours. Offered every two years.

Prerequisite: ARS 105 Photography I

220. Painting II

A continued experience in oil painting or other media with an emphasis on composition and content. Four contact hours per week.

Prerequisite: ARS 120 Painting I

230. Ceramics II

Continued exploration of the ceramic process and more advanced creative problems. Four contact hours per week. Currently taught on the campus of Cedar Crest College.

Prerequisite: ARS 130 Ceramics I

303. Drawing III

An advanced course in drawing designed to fulfill the need for personalized expression. Four contact hours per week.

Prerequisite: ARS 203 Drawing II

304. Sculpture III

An advanced course focusing on the refinement of concepts, materials, and techniques. Emphasis will be placed on individual development. Four contact hours per week.

Prerequisite: ARS 204 Sculpture II

305. Photography III

An advanced course emphasizing a semester-length project which combines research of precedents with personal exploration of a photographic theme. Both color and black and white materials are utilized. Four contact hours per week.

Prerequisite: ARS 205 Photography II

310. Printmaking III

An advanced course in printmaking techniques. Students will develop editioned colored images which utilize multiple color and plate prints and explore one process as an area of concentration. Four contact hours per week.

Prerequisite: ARS 210 Printmaking II

320. Painting III

An advanced studio course in a variety of media with an emphasis on the development of a personal expression. Four contact hours per week.

Prerequisite: ARS 220 Painting II

401. Senior Studio Seminar

Offered every fall semester, the course is taught collectively by the studio art faculty. Students focus on understanding and articulating their own interests and vision through research, written work, creation of new

works of art, and critique. After the final critique, students who have demonstrated strong, sustained, and productive engagement with their work will be invited to join ARS 405 Honors in Studio Art for the spring semester. Required of all senior studio art majors. Open to art minors with permission of faculty.

405. Honors in Studio Art

Offered every spring, this course will require students to continue development of independent work begun during the fall semester. Regular critiques with studio faculty and guest critics will be the basis for evaluation. Emphasis will be on portfolio development and preparation for the senior art exhibition in the Martin Art Gallery. Students will plan and design the exhibition, design announcements, prepare their work for hanging, and install and light the exhibit.

Prerequisite: ARS 401 Senior Studio Seminar. Departmental permission required

ASIAN TRADITIONS (AST) (Minor only)

Director: Associate Professor Susan L. Schwartz

The Asian Traditions minor offers students the opportunity to explore the rich cultural and religious heritage of South and East Asia and its influence on contemporary affairs. Asian countries play an increasingly important role in global concerns, and it is crucial to forge connections with as much expertise and understanding as possible. The information and understanding gained through this course of study will benefit students in whatever field or endeavor they choose to pursue.

PROGRAM REQUIREMENTS

Students must choose five courses from at least three different departments and must complete a Senior Capstone Project. The former may be chosen from Special Topics courses as approved by the Minor Program Director and from among the regular College offerings listed below. Students are also encouraged to supplement regular course offerings with language study offered on LVAIC campuses and study abroad opportunities.

Art History Course:

ARH 213 or 214 Traditional Chinese Art

Religion Studies Courses:

REL 203 Religions of India

REL 207 Religions of China

REL 208 Religions of Japan

REL 225 Buddhist Traditions

REL 313 Religion & Performing Arts in India

REL 351 The Feminine in South Asia

History Courses:

HST 150 Introduction to Traditional Japan

HST 271 or 272 Modern China

HST 273 or 274 Modern Japan

HST 391 or 392 The Mongol Legacy

Philosophy Courses:

PHL 104 Philosophy East & West

PHL 220 Philosophies of Asia

PHL 250 Philosophies of India

PHL 251 Philosophies of China

PHL 350 Buddhist Philosophies

PHL 351 Daoist Philosophies

Political Science Course:

PSC 232 or 233 Governments & Politics of East Asia

Sociology Course:

SOC 325 Imagined Communities: The Sociology of Nations & States

950. Senior Capstone Project

Each student will complete a Senior Capstone Project, designed in consultation with the director, which will conclude with a presentation open to other minor program participants.

BIOCHEMISTRY

Co-Directors: Assistant Professors Colabroy and Hark

Professors: Shive (Head of Interdisciplinary Science), Baar, Much

Associate Professors: Anderson, Edwards, Ingersoll, Russell, Wightman

Assistant Professor: Teiss re

Often referred to as the chemistry of life, biochemistry is the study of organisms, cells, and cellular components at the chemical and molecular level. A major in biochemistry gives students essential skills for understanding and contributing to the study of chemistry in living organisms. Students who complete the program are prepared for positions in basic and applied research, admission to graduate schools in biochemistry, molecular biology, pharmacology, and other biochemically-oriented disciplines, and for admission to health profession schools.

Major Requirements

To declare and remain a major in biochemistry, a student must maintain a 2.000 grade point average for all biology and chemistry courses attempted.

Required Courses:

1. Seven foundation courses in science

BIO150 Principles of Biology I: Organisms & Populations

BIO 151 Principles of Biology II: Cells & Organisms

BIO 152 Principles of Biology III: Molecules & Cells

CHM 103 General Chemistry I

CHM 104 General Chemistry II
 MTH 121 Calculus I
 MTH 122 Calculus II

2. Three core courses in chemistry

CHM 203 or 205 Honors Organic Chemistry I **OR**
 CHM 201 Organic Chemistry I
 CHM 204 or 206 Honors Organic Chemistry II **OR**
 CHM 202 Organic Chemistry II
 CHM 321 Physical Chemistry I

3. Three core courses in biochemistry

BIO 220 Biochemistry
 BCM 341 Experimental Biochemistry
 BCM 441 Advanced Biochemistry

4. Two electives in biology and chemistry. Two lists must be represented.

List A

BIO 205 Cell Biology I
 BIO 215 Genetics
 BIO 225 Microbiology

List C

BIO 405 Cell Biology II
 BIO 412 Molecular Biology

List B

CHM 311 Analytical Chemistry I
 CHM 322 Physical Chemistry II

In addition to these requirements, students interested in graduate study in biochemistry or the health professions are strongly advised to complete a year of general physics.

COURSES

341. Experimental Biochemistry

A laboratory based course concerned with modern experimentation in biochemistry. In the first module students use recombinant DNA technology to overexpress an enzyme, then purify and characterize it. Theory and biochemical context is discussed throughout. The second module covers modern biochemical experimentation, including mass spectrometry of proteins and proteomic methods for analysis of cell states. Students also design and execute an original research project. Four hours laboratory and two hours of lecture per week.

Prerequisite: CHM 202 or 204 or 206

Meets general academic requirement W.

441. Advanced Biochemistry

An advanced, lecture based course that takes a mechanistic perspective on enzymology, enzymopathy, and bioinformatics within cellular metabolism. While studying the central concept of metabolism, students learn to evaluate original research articles and apply the findings to biochemical problems. Topics also include the relevance and application of cellular metabolism to medicine and biotechnology. Three hours lecture per week.

Prerequisite: BIO 220 and CHM 202 or 204 or 206

BIOLOGY (BIO)

Department Chair: Professor Richard Niesenbaum

Professors: Klem, Much

Associate Professor: Edwards, McCain, Wightman

Assistant Professors: Hark, Iyengar, Meier, Teissère

Lecturers: Byrne, Cronin, Stamper, Tsao

Post-Doctoral Researcher: Mooney

The biology curriculum is designed to provide students with an opportunity to study the principles governing life processes within the broader context of the liberal arts. Students investigate the science of life at all levels, from molecular biology to population ecology. Courses are designed to develop each student's ability to acquire and interpret data, pose questions, and critically evaluate facts and theories. By proper selection of biology and other science courses, students will be prepared for graduate school in the life sciences, for admission to medical, dental, veterinary, and other health profession schools, and for positions in government or industry.

SPECIAL PROGRAMS

Teacher Certification

Students seeking certification for the teaching of biology in the secondary schools should contact the department head.

Honors Program

Students are encouraged to initiate planning and discussing their honors research project during the summer before or fall semester of their junior year. A student may complete departmental honors by conducting research with a faculty member for two semesters during the senior year or one semester and the summer prior to the senior year. Acceptance into the honors program is selective and based on the following criteria:

- A minimum GPA of 3.20 at the time of proposal submission, March of the junior year;
- Availability of research positions with a particular faculty member;
- Projects are limited to field or laboratory studies conducted locally. Off campus laboratory projects or internships are not suitable. However, this does not prohibit collaborative research that may include an off-campus component.
- Approval of the research proposal submitted to a faculty member in the spring of the junior year (see Biology Student Handbook for proposal guidelines).

Acceptance into the honors program does not mean honors necessarily will be awarded. Department honors will be granted at commencement to majors who have fulfilled the following conditions:

- The candidate has met the expectations of two course units of research during the senior year or the summer prior to the senior year. These expectations will be clearly established by the faculty member;
- The candidate has presented a 50-minute seminar to the College community on his/her research project. Typically this is done in April of the senior year.
- The candidate has written a thesis according to the guidelines outlined in the Biology Student Handbook and submitted it to the Honors Committee by the Friday before the last day of spring classes. The committee will judge the thesis based on the research performed, scientific merit of the work, and quality of writing.

For more information about the Honors Program requirements, please consult the Biology Student Handbook.

Major Requirements

To declare and be retained as a biology major, a student must maintain a 2.000 grade point average based on all biology courses attempted. No courses numbered below 202 except BIO 150 Principles of Biology I: Organisms & Populations, BIO 151 Principles of Biology II: Cells & Organisms, and BIO 152 Principles of Biology III: Molecules & Cells can be used to fulfill the biology major requirements. In many biology courses a student is expected to devote more time than scheduled in laboratory and field investigations.

Required Courses:

Biology majors must complete 14 courses, nine in biology and five cognate courses.

1. Biology courses

- (a) Three introductory courses must be completed before end of the third year.
 - BIO 150 Principles of Biology I: Organisms & Populations
 - BIO 151 Principles of Biology II: Cells & Organisms
 - BIO 152 Principles of Biology III: Molecules & Cells
- (b) Six biology electives numbered 200 or above including ESC 312 Toxicology (except BIO 200 Human Anatomy & Physiology I, BIO 201 Human Anatomy & Physiology II, and BIO 960 Biology Internship). At least one course must be from each of three areas of biological organization:
 - Area 1 – Molecules and Cells.** These courses explore structural and functional relationships from the molecular to cellular level of organization:
 - BIO 205 Cell Biology
 - BIO 215 Genetics
 - BIO 220 Biochemistry
 - BIO 225 Microbiology.

Area 2 – Cells and Organisms. These courses explore structural and functional relationships from the cellular to organism level of organization:

BIO 240 Developmental Biology
 BIO 242 Entomology
 BIO 245 Comparative Anatomy
 BIO 248 Neurobiology
 BIO 250 General Physiology.

Area 3 – Organisms and Populations. These courses explore the interactions of individuals and populations with their physical and biological environments:

BIO 204 Invertebrate Zoology
 BIO 255 Ornithology
 BIO 260 Field Botany & Plant Ecology
 BIO 262 Cultural & Economic Botany
 BIO 265 Ethology
 BIO 268 Freshwater Ecology
 BIO 270 Ecology
 BIO 272 Field Marine Biology
 BIO 275-279 Field Investigations in Biology.

- (c) One of the six elective courses must be numbered between 400 and 499. This is an advanced, seminar style course that incorporates inquiry-oriented student projects.

2. Cognate courses

MTH 121 Calculus I
 CHM 103 General Chemistry I
 CHM 104 General Chemistry II
 CHM 201 Organic Chemistry I
 PHY 121 General Physics I

Students are strongly encouraged to complete CHM 202 Organic Chemistry II and PHY 122 General Physics II because a full year of each are required by virtually all graduate programs in the biological sciences or health professions.

COURSES

100-149. Concepts of Biology

Concepts of Biology is a collection of courses that vary in topic but are similarly designed to introduce students to the scientific way of knowing. They are designed for students who do not intend to pursue a career in the biological sciences or related field. The courses are not usually open to students who have completed BIO 150 Principles of Biology I: Organisms & Populations, BIO 151 Principles of Biology II: Cells & Organisms, or BIO 152 Principles of Biology III: Molecules & Cells.

101. Human Biology, Science, & Society

This course covers topics in human structure and function, human genetics, and human ecology. A scientific and bio-ethical approach is used to study issues related to society as a whole as well as to an

individual. The overall goal of the course is to help students become more scientifically literate so that they can make informed decisions.

Meets general academic requirement S.

102. Biology of Movement

This course covers topics related to the science of movement. The structure and function of the skeletal and muscular systems are all studied in detail. The nervous system, cardiovascular, and respiratory systems will also be studied. In addition, students will explore exercise physiology. This course is especially designed for dance majors and others who have a particular interest in the biology of movement.

Meets general academic requirement S.

104. Biology of Birds

A general overview of the study of avian natural history. Special attention is given to field techniques to identify, describe, and record the biology of birds in their natural habitat. Four class hours per week and field trips.

Meets general academic requirement S.

105. Concepts of Biology in Practice

A course designed to facilitate learning of biological concepts through laboratory experiences. Critical scientific thinking and science process will be emphasized.

Meets general academic requirement S.

106. The Biotech Century

So much of the news concerns biotechnology: cloning, gene therapy, cancer treatments, assisted reproductive technologies, genetically modified foods, the human genome project, bioterrorism. Perhaps the biology you took in high school never talked about such things. Using newspaper articles, an excellent genetic textbook for non-science majors, and Internet resources, this course is designed to allow the student to explore “the new biology”. Most of the students who have taken this course find immediate applications of the course knowledge to their own lives. Perhaps you will too.

Meets general academic requirement S.

109. Bubonic Plague to AIDS: The Influence of Infectious Disease on the Human Species & Environment

Infectious disease has and continues to have a profound influence on humans and the environment in which they live. Bubonic plague, smallpox, syphilis, malaria, and AIDS, as well as other emerging viruses, will be studied as specific examples of infectious disease. The biology of the microbes involved; their epidemiology, resulting pathology, and control will be discussed. Emphasis will be placed on the historical, political, and social consequences of infectious disease. **Offered as a course designed for Muhlenberg Scholars.**

Meets general academic requirement S.

112. Biodiversity

A survey of the diversity of life and its evolution, extinction, and conservation. Readings, lectures, and discussions will cover such issues as ethics of conservation, multiple-use forestry practices, and ecological restoration. This course is intended for students who are not interested in pursuing careers in the Biological Sciences and related disciplines but who have a strong interest in conservation and the natural world. Three class hours plus three laboratory hours per week, includes some field trips.

Meets general academic requirement S.

113. Marine Organisms & the Ocean

As a basis for understanding marine organisms and their lifestyle, this course will study the geological origins of oceans and plate tectonics, the nature of seawater, ocean bottom sediments, and the atmosphere and its relationship with the oceans, waves, tides, and currents. Studies will include marine ecosystems, open ocean plankton and nekton, and organisms of the ocean bottom. The effects

of human activities on ocean life will also be discussed. Course can be used to satisfy the earth science requirement for secondary education.

Meets general academic requirement S.

114. Humanity & the Biological World

The primary focus of this course is to examine the origin and nature of the life forms that exist today and the effect of human activity on those organisms. As a background for understanding those changes, the role of the environment and genetics in the evolution of living species will be studied. Review of biological, geological, and meteorological concepts will support the study.

Meets general academic requirement S.

115. Drugs and Drug Abuse

In this course, we will engage in a cross-disciplinary study of pharmacology by appealing to biological, sociological, historical, political, and anthropological points of reference. Our first discussions will center largely on the putative mechanisms by which drugs act in the central nervous system. We will also consider how power may define the representation of drugs in society and the resulting consequences for drug regulation. Additionally, we will discuss the relationship of colonialism to drug history, the social forces governing the perceived "moral" status of drug use, and the emerging ethical issues surrounding drug discovery.

Meets general academic requirement S.

116. Animal Behavior

Why do the cardinals on campus perch at the tops of trees and chirp so loudly? Why do some killer whales hunt in packs and others hunt singly? This course is designed to help students better understand the mechanisms, evolution, and consequences of animal (including human) behavior. Topics such as communication, foraging, orientation, reproduction, and social behavior will be covered. In addition to gaining insight into animal behavior, students will also obtain a broader understanding of science, the scientific method, and some of the unanswered questions in the study of animal behavior. Four class hours per week.

Meets general academic requirement S.

118. Genes, Genomes, & Society

Students will consider the impact of genetic information on both individuals and various aspects of society with a particular focus on human health and disease. The course begins with an introduction to human genetics, which will serve as background for discussion of aspects of the human condition that have a genetic basis as well as uses of genome sequence information. In addition to learning the underlying biology, discussions will include related societal, ethical, and policy topics.

Meets general academic requirement S.

150. Principles of Biology I: Organisms & Populations

The first course in the introductory biology sequence for intended majors and for those interested in a more substantial introduction to Biology is an introduction to the core themes of biology, emphasizing the scientific method, evolution, the diversity of life, and how organisms interact with their environment. Three class hours per week and weekly recitations.

Meets general academic requirement S.

151. Principles of Biology II: Cells & Organisms

The second course in the introductory biology sequence for majors is a study of the relationship of structure and function in plants and animals. Laboratories emphasize the scientific method as a way of knowing. Three class hours and three laboratory hours per week.

Prerequisite: BIO 150 Principles of Biology I: Organisms & Populations

Meets general academic requirement S.

152. Principles of Biology III: Molecules & Cells

The third course in the introductory biology sequence is a study of the relationship of structure and function at the molecular and cellular level, molecular and Mendelian genetics, and microbiology. Three class hours and three laboratory hours per week.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms and CHM 104 General Chemistry II
Meets general academic requirement S.

200. Human Anatomy & Physiology I

This course is intended for students interested in Allied Health Professions. The course provides an in-depth study of the basic body tissues, the principles of support and movement, and the nervous and endocrine system of the human body. Three class hours plus three laboratory hours per week. **Does not count as one of the nine biology courses required for the biology major.**

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms
Meets general academic requirement S.

201. Human Anatomy & Physiology II

This course is a continuation of BIO 200 Human Anatomy & Physiology I and is intended for students interested in Allied Health Professions. It exposes the student to basic body processes such as digestion, respiration, transport, reproduction, immunology, fluid dynamics, and the hormonal control of physiology. There is an emphasis on the interrelationship of body processes and the maintenance of homeostasis. Three class hours plus three laboratory hours per week. **Does not count as one of the nine biology courses required for the biology major.**

Prerequisite: BIO 200 Human Anatomy & Physiology I
Meets general academic requirement S.

204. Invertebrate Zoology

Study of the diversity of animal phyla, emphasizing similarities and differences among groups, adaptations to their respective environments, and potential evolutionary pathways for various organ systems. Laboratories emphasize structure and function of invertebrate anatomy through observation and dissection of living and preserved specimens. A required weekend trip to an aquarium or the ocean should be anticipated. Three hours of lecture plus three hours of laboratory per week.

Prerequisite: Biology 151 Principles of Biology II: Cells & Organisms.

205. Cell Biology

The structure and function of eukaryotic cells will be explored at the molecular and cellular levels. Topics include cell signaling, membranes, organelles, cell cycle control, motility, and programmed cell death. Primary literature is analyzed in recitation sections. Laboratory provides experience in methods of subcellular fractionation, cytology, and cell culture. Self-designed investigations test hypotheses using fluorescent microscopy. Three lecture hours, one hour of recitation, and three laboratory hours per week.

Prerequisite: BIO 152 Principles of Biology III: Molecules & Cells

215. Genetics

Genetics includes coverage of the four main branches of modern genetic study: classical genetics, molecular genetics, population genetics, and genomics. Experimental approaches, human genetics, and model systems are emphasized. Topics include mutations, gene interactions, chromosomes, quantitative and evolutionary genetics, gene mapping, gene cloning, genetic engineering, and applications of genetics to the study of development, cancer, and behavior. Three class hours and three laboratory hours per week.

Prerequisite: BIO 152 Principles of Biology III: Molecules & Cells

220. Biochemistry

Study of organisms, cells, and cellular components at the chemical and molecular levels. Structure and function of nucleic acids and proteins including enzyme kinetics as well as aspects of carbohydrate and lipid metabolism including regulatory signaling pathways will be covered. Applications to basic research and human health will also be included. Three class hours and three laboratory hours per week.

Prerequisite: BIO 152 Principles of Biology III and CHM 104 General Chemistry II. CHM 201 Organic Chemistry I or CHM 203 or 205 Honors Organic Chemistry I should be completed or enrolled concurrently.

225. Microbiology

Study of the morphology, physiology, and genetics of bacteria as well as the structure and replication of viruses. Relationship of these microbes to human disease is emphasized. Laboratories stress aseptic technique, microscopic observation, bacterial physiology, and identification. Three class hours plus three laboratory hours per week.

Prerequisite: BIO 152 Principles of Biology III: Molecules & Cells

240. Developmental Biology

An overview of the cellular, molecular, and developmental mechanisms that control embryogenesis from fertilization through organogenesis. Laboratories include the study of live embryos from sea urchins to chickens as well as preserved embryo slides. Three class hours plus three laboratory hours per week.

Prerequisite: BIO 152 Principles of Biology III: Molecules & Cells

242. Entomology

A comprehensive study of the insect. Insect physiology, biochemistry, and molecular biology are integrated with an exploration of insect diversity, ecology, evolution, and the impact of insects on humans. Labs develop insect identification skills and provide experience in a variety of biochemical and molecular techniques as they are applied to current research in insect science. Three lecture hours and three lab hours.

Prerequisite: BIO 152 Principles of Biology III: Molecules & Cells

245. Comparative Anatomy

Study of the evolution and morphology of vertebrates. Emphasis is given to the comparative study of vertebrate homology and the adaptive value of structure. Laboratories consist of detailed dissection of representative taxa with emphasis on shark, cat, and human anatomy. Three class hours plus three laboratory hours per week.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms

248. Neurobiology

An exploration of the molecular, cellular, and physiological and developmental foundations of nervous system function. Topics discussed will include the ionic and electrical properties of neurons; the biochemistry of synaptic signaling; neuronal and synaptic plasticity; basic neuronal circuits; the development and target specification of neurons; and neuroendocrine regulation. Relevant primary literature will be introduced through class discussions and independent critical analyses. A laboratory will introduce the research methods of anatomy and neurophysiology and will culminate in a student-driven independent project. Three class hours and three laboratory hours per week.

Prerequisite: BIO 152 Principles of Biology III: Molecules & Cells and CHM 104 General Chemistry II

250. General Physiology

Study of the concepts and principles that form the basis for understanding the mechanisms of animal physiology. The emphasis of the course is on the interrelationship of physiological processes and how they relate to the biological needs of mammals. Three class hours, three laboratory hours, and one recitation hour per week.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms

255. Ornithology

A detailed and in-depth study of avian natural history. Emphasis is given to population ecology, behavioral ecology, and conservation biology of birds. Laboratories are exercises and field trips to develop and practice techniques to identify, describe, and record the biology of birds in their natural habitat. Three lecture hours plus three laboratory hours per week.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms

260. Field Botany & Plant Ecology

A field research oriented course emphasizing plants. The focus is on articulating and quantitatively answering relevant research questions on the diversity, ecology, and evolution of plants. Special emphasis is given to hypothesis development, data collection and analysis, and interpretation and presentation of results. Three class hours plus three laboratory hours per week with extensive field work.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms
Meets general academic requirement W.

262. Cultural & Economic Botany

Study of the ecological relationship between plants and humans and the implications for local and global conservation. Topics covered include medicinal plant use, agroecology, plant ecology, tropical ecology, and community-based conservation. Three lecture hours plus three laboratory/field hours per week.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms

265. Ethology

The biological study of behavior. Emphasis is given to the comparative study of genetics, morphology and physiology, ecology, and evolution of animal behavior. Laboratories are exercises or field trips to observe, describe, and interpret the actions of animals in their natural habitat; special emphasis is given to hypothesis development and study design and the collection, analysis, interpretation, and presentation of research results. Three class hours plus three laboratory hours per week.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms
Meets general academic requirement W.

268. Freshwater Ecology

An examination of biotic and abiotic interactions occurring in the full range of freshwater systems including streams, ponds, and lakes. Content includes interactions among living organisms, energy flow within and among living communities, survival strategies, water chemistry, adaptations of organisms for survival in water, and current human impacts on aquatic environments. Investigative methods in aquatic ecology will also be examined, especially through the laboratory component of the course. Three lectures and one laboratory meeting weekly.

Prerequisite: BIO 151: Principles of Biology II: Cells and Organisms

270. Ecology

Ecology is the study of the interactions between organisms and their environment at the individual, community, and ecosystem levels of organization. Terrestrial and aquatic ecology and plant and animal studies are discussed. A major emphasis of the course is experimental design and analysis, including statistical analyses, and presenting results. Most laboratories are outside and there is one required weekend field trip.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms

272. Field Marine Biology

This field course is conducted at a marine laboratory field station and takes advantage of the opportunity to study the diversity of marine organisms, microhabitats, and their interactions in the natural setting. Topics investigated through fieldwork, laboratory investigation, and lectures include organismal diversity, adaptations, zonation, competition, life history strategies, and larval ecology. Students gain experience in experimental design which culminates in a small self-designed project. The course is conducted over 10-12 days, usually in August and rarely in May, with paper writing and a final exam administered on campus in the fall. There is a supplementary fee to cover the cost of housing and laboratory fees.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms or permission of the instructor.

275-279. Field Investigations in Biology

Field investigations focusing on a particular site or theme in Ecology. Examples include Marine Ecology in Bermuda and Tropical Ecology in Peru, Guatemala, and Costa Rica. May be taken for one-half course units or one course unit. May be enrolled more than once.

Prerequisite: BIO 151 Principles of Biology II: Cells & Organisms

326. Medical Microbiology

Study of the host-microbe relationship as it relates to human disease. Concepts covered include pathogenesis, chemotherapy, epidemiology, and clinical diagnosis. The laboratories stress the identification of clinical unknowns. Three lecture hours plus three laboratory hours per week.

Prerequisite: BIO 225 Microbiology

335. Immunology

Study of the immune system and its role in maintaining the physiological integrity of multicellular organisms against infection, malignancy, and transplantation. Specifically, the following concepts are studied: structure and function of antibodies and antigens, biology of lymphocytes and their interaction, immunoregulation, and immunopathology. Three class hours plus two recitation hours per week.

Prerequisite: BIO 152 Principles of Biology III: Molecules & Cells and any 200 course in Area I

Meets general academic requirement W.

350. Applied Physiology

Advanced topics in physiology, including cardiovascular biology, respiratory biology, neurobiology, immunology, and endocrinology, will be studied. Students will apply and extend their understanding of basic and clinical physiology to the analysis of case studies presented to the class by health professionals.

Prerequisite: BIO 250 General Physiology

Meets general academic requirement W.

360. Histology

Study of the microscopic anatomy of vertebrate tissues and organs with a detailed consideration of the relation of structure to function. Three class hours plus three laboratory hours per week.

Prerequisite: BIO 205 Cell Biology I or BIO 245 Comparative Anatomy or BIO 250 General Physiology

405. Cell Biology of Human Disease

The cell biology of human diseases will be investigated using current primary literature emphasizing experimental methods and the interpretation of data. Topics will include cancer, heart disease, diabetes, Alzheimer's disease, muscular dystrophy, and other human health concerns that have been the topic of recent research at the cellular level. Students will critically analyze current controversies in the cell biology literature.

Prerequisite: BIO 205 Cell Biology I or consent of instructor

Meets general academic requirement W.

412. Molecular Biology

A topical course investigating the techniques and applications of recombinant DNA. This course provides a detailed treatment of recombinant methodologies, such as gene cloning strategies, and considers the process of scientific research. Topics covered include gene regulation, gene organization, and the molecular aspects of development and cell biology. Discussions and writing assignments focus on the analysis of the primary literature. Three class hours per week.

Prerequisite: BIO 151 Principles of Biology II and BIO 205 Cell Biology I or BIO 215 Genetics or BIO 220 Biochemistry or BIO 225 Microbiology

Meets general academic requirement W.

421. Transmission Electron Microscopy

Students learn how to prepare specimens for transmission electron microscopy; instruction includes fixation procedures, thin sectioning, staining, and operation of the microscope. Students design and complete an independent research project, analyze and discuss scientific literature, and learn how to write a scientific paper. Three class hours plus three laboratory hours per week.

Prerequisite: BIO 152 Principles of Biology III: Molecules & Cells and any two biology courses numbered between 200 and 299. PHY 211 General Physics I and CHM 201 Organic Chemistry I or CHM 203 or 205 Honors Organic Chemistry I should also be previously completed or concurrently enrolled.

Meets general academic requirement W.

423. Scanning Electron Microscopy

Students learn how to prepare specimens for scanning electron microscopy; instruction includes fixation procedures, critical point drying, sputter coating, and operation of the microscope. Students design and complete an independent research project, analyze and discuss scientific literature, and learn how to write a scientific paper. Three class hours plus three laboratory hours per week.

Prerequisite: BIO 152 Principles of Biology III: Molecules & Cells and any two biology courses numbered between 200 and 299. PHY 211 General Physics I and CHM 201 Organic Chemistry I or CHM 203 or 205 Honors Organic Chemistry I should also be previously completed or concurrently enrolled.
Meets general academic requirement W.

460. Physiological & Behavioral Ecology

A seminar course investigating the physiological adaptations of vertebrates to their environment. Readings are from the primary literature. Students design and complete an independent research project and learn how to write a scientific paper. Three class hours plus three laboratory hours per week.

Prerequisite: Any two biology courses numbered between 200 and 299

Meets general academic requirement W.

465. Conservation Biology

This course will draw on the various disciplines within biology as they are applied in the very rapidly changing field of conservation biology. Topics will include conservation genetics, geographical information systems (GIS), sustainable agriculture and forestry, integrated land-use management, and restoration ecology. This project-based seminar course includes three class hours and three lab/field hours per week. The course will be offered in alternate years, depending on student demand.

Prerequisite: Any two biology courses numbered between 200 and 299

470. Evolution

The study of the processes of evolution from macromolecules to the genesis of major groups of life. Examination of Neo-Darwinian theories of adaptation and natural selection as well as competing explanations of evolutionary change. Assessment of contemporary criticism of Darwinian theory. Three class hours per week in seminar format with emphasis on reading of primary literature, discussion, and writing.

Prerequisite: Any two biology courses numbered between 200 and 299

Meets general academic requirement W.

960. Biology Internship

Majors are eligible for internship programs with approval of the department chair. Internships do not count as one of the nine biology courses required for the biology major.

BUSINESS ADMINISTRATION (BUS)

Department Chair: Professor Arthur Raymond

Professors: Frary, Heitmann, Miller

Associate Professor and Business Coordinator: Bergenstock

Associate Professor: London

Assistant Professor: Kushner

Lecturer and Internship Director: Eisenberg

Entrepreneur in Residence: Linder

The business program at Muhlenberg is nurtured by the liberal arts tradition of the institution and provides students with an excellent preparation for both career and graduate school. Business majors have successfully launched their careers in a wide range of fields and activities, including the manufacturing, telecommunications, electronics, healthcare, and financial services industries. Some students combine a business major with accounting and have been especially successful in finding positions with “Big Four” accounting firms. Business is often the major of choice for

students who wish to apply for law school. Many students, regardless of major, will eventually pursue an MBA degree. A business major, obviously enough, provides an excellent foundation for MBA studies.

The business program offered at Muhlenberg is especially appropriate for liberal arts students who want to understand more fully the international society in which we live and its aspirations. It emphasizes critical thinking, effective communication, and collaborative effort. The international, environmental, and ethical dimensions of business decisions are interwoven throughout the business curriculum, and there is a deep faculty commitment to instilling a love of learning and an appreciation of learning as a lifetime activity. The business program offers students three areas of concentration plus an education abroad alternative that build upon a commonly shared combination of foundation and core courses.

SPECIAL PROGRAMS

Concentrations are available in the following areas: Entrepreneurial Studies; Management and Organization Studies; and Marketing. Students interested in finance may choose the Finance Major in the Accounting, Business and Economics Department. In addition, participation in a department approved education abroad program may be substituted for, or used to complement, a concentration in meeting the requirements of the business major. In consultation with their advisors, students also may “self-design” a concentration. Students who are business majors or minors cannot take accounting, business, economics, or finance courses on a pass-fail basis.

International Business and Education Abroad

For students with international business interests, the Maastricht education abroad program is especially attractive. The program was developed in cooperation with the University of Maastricht in The Netherlands and is fully integrated with the business major. Courses are offered by University of Maastricht faculty to participating Muhlenberg students during the fall semester of their junior year. Students attend courses in international business, economics, and politics, taught in English. Besides deepening global and cultural awareness, students have opportunities to travel to France, Belgium, and Germany, all of which are less than thirty minutes away, and meet business and political leaders from those countries. The program offers a global perspective and international experience that students will find advantageous in both finding a first job and in subsequent career advancement.

Other department approved education abroad programs are also available for the student with international business interests. Students who wish to participate in the Maastricht program or any other department approved education abroad opportunity should consult with their faculty advisor as soon as such an interest is evidenced.

Areas of Concentration

Business majors receive a Bachelor of Arts degree with a major in Business Administration. All majors are required to select a concentration, or alternatively, participate in a department approved education abroad program.

Management and organization, some would claim, are what distinguish today's world from earlier times. Certainly, an appreciative knowledge of organizations, their structure and functions, and how they are managed is essential to an understanding of the world in which we live. The concentration in management and organization offers courses in organizational behavior and theory, leadership, management science, labor relations, human resource management, and small business management. It provides an excellent foundation for those who aspire to positions of high responsibility in business or government.

The entrepreneurial studies concentration is designed for students who want to establish their own business or who expect to assume responsibilities for a family business. Students have the opportunity to understand entrepreneurship and develop business plans, to study venture capital, and to participate in an entrepreneurial practicum experience. Additionally, an entrepreneurial studies minor provides a valuable background for students in, for example, the healthcare or performing arts fields who will often find themselves involved in the management of a small business.

Marketing is a philosophy that guides the entire business organization. Its goal is to create customer satisfaction profitability by building value-laden relationships with customers. The marketing department cannot accomplish this by itself and must therefore team-up with other departments in the company and create partnerships with other organizations worldwide to deliver exceptional value to all customer groups. To prepare students for this challenge, Muhlenberg's marketing concentration offers an interdisciplinary and global perspective, along with the opportunity to develop research techniques to assist firms with pricing, product distribution, and promotion decisions. Courses include marketing management, global marketing, non-profit marketing, electronic commerce, and marketing research.

Internship Opportunities

The department has an extensive internship program that provides the business major with a wide range of opportunities to gain valuable work experience. Supervised paid and unpaid internships, which can contribute to the degree, are available during the traditional school year. In addition, the department offers assistance in obtaining summer internships that may also contribute to the degree at Muhlenberg.

Honors Program in Business Administration

An honors program is available on an application basis to students who have completed the business core and have attained a grade point average of 3.700 or higher

both in the major program and overall. Interested students should discuss the requirements and rewards of the honors program with their faculty advisor before the end of their junior year. The honors program requires the completion of a senior honors thesis (1 course unit) and encourages independent studies.

PROGRAM REQUIREMENTS

Major Requirements

In order to declare and remain a major in good standing in business administration, a student must achieve and maintain a cumulative grade point average of at least 2.000 in all courses applicable to the major. Once enrolled at Muhlenberg College, students must meet the major requirements by enrolling Muhlenberg courses (i.e., transfer courses are not acceptable).

A major in Business Administration must complete 12 courses which consist of the following three components:

I. Foundations (4 courses – must be taken at Muhlenberg)

Foundation courses will ordinarily be completed during the first two years.

- ECN 101 Principles of Macroeconomics
- ECN 102 Principles of Microeconomics
- ACT 101 Financial Accounting
- MTH 144 Introduction to Statistical Analysis (preferably) **OR**
- MTH 104 Statistical Methods

II. Core (4 courses – must be taken at Muhlenberg)

Business Administration majors are expected to complete all four foundation courses before enrolling in any core courses. Typically, the four core courses are taken during two consecutive semesters. Students will usually not enroll in any core courses before the spring semester of the sophomore year, although exceptions are possible for students who have completed their foundation requirements in their first year and for students who wish to complete their core requirements prior to studying abroad in their junior year.

- FIN 237 or 238 Corporation Finance
- BUS 233 or 234 Operations & Information Systems
- BUS 235 or 236 Management
- BUS 239 or 240 Marketing

III. Concentration (4 courses)

Business Administration majors are expected to have completed all four core courses before enrolling in any concentration courses or department approved education abroad program. Ordinarily, concentration courses will be enrolled during the junior and senior years. Participation in a department approved education abroad program is ordinarily done during the junior year.

Maastricht Education Abroad Program (see page 62) (International Business)

The Maastricht education abroad program is specifically designed for department majors who wish to gain an international business perspective. The Maastricht program offers four courses in business and economics, three of which can be used to satisfy the concentration requirement. Students participating in the Maastricht program are encouraged to take additional concentration area courses. The following Maastricht program courses are always available to participating students:

- MEA 261 European Economic Integration
- MEA 265 International Management & Business Policy
- MEA 267 Global Marketing Strategy
- Muhlenberg Special Topics or Regular ABE Course

In addition, all business majors are required to take:

- BUS 475 Business Policy & Strategy (Capstone)

Management and Organization Studies

Students must complete the following two courses:

- BUS 360 or 361 Organizational Behavior
- BUS 475 Business Policy & Strategy (second semester senior year)

In addition, students must choose two of the following:

- BUS 331 or 332 Management Science
- BUS 335 or 336 Labor/Management Relations
- BUS 339 or 340 Human Resources Administration
- BUS 352 Small Business Management
- BUS 365 or 366 Leadership
- BUS 430 Organization Theory
- PHL 245 Business Ethics

Entrepreneurial Studies

Students must complete the following three courses:

- BUS 351 Entrepreneurial Studies
- BUS 433 or 434 Entrepreneurship Policy & Strategy (Venture Capital)
- BUS 475 Business Policy & Strategy (Capstone)

In addition, students must choose one of the following courses:

- BUS 352 Small Business Management
- BUS 965 Entrepreneurial Practicum

Marketing

Students must complete the following three courses:

- BUS 341 or 342 Global Marketing
- BUS 347 or 348 Marketing Research
- BUS 475 Business Policy & Strategy (Capstone)

In addition, students must choose one of the following:

- BUS 260 or 261 Marketing in Not-for-Profit Organizations
- BUS 304 Electronic Commerce & the Internet
- BUS 345 or 346 Marketing Management
- COM 216 or 217 Communication & Public Relations*
- COM 312 or 313 Media Industries*

100 /

PSY 202 Social Psychology*

*These courses have prerequisites.

Minor Requirements

A minor in Business Administration consists of seven courses as listed below:

ECN 101 Principles of Macroeconomics **OR**

ECN 102 Principles of Microeconomics

FIN 237 or 238 Corporation Finance

ACT 101 Financial Accounting

BUS 235 or 236 Management *

BUS 239 or 240 Marketing *

MTH 104 Statistical Methods

One elective chosen in consultation with the faculty advisor

* Students choosing a minor in Entrepreneurial Studies will substitute:

BUS 351 Entrepreneurial Studies

BUS 433 or 434 Entrepreneurial Policy & Strategy (Venture Capital)

BUSINESS COURSES

225. Business Law I

The course provides a basic introduction to the legal aspect of business as it relates to the evolution of business structures, contracts, personal property, wills, and real property. Emphasis is given to legal terminology and problem-solving which can be useful for professional certification and entrance examinations.

226. Business Law II

A basic introduction to the legal aspects of business organizations and their commercial relationships and structures as such relates to corporations, partnerships, agency, commercial sales, and paper and secured transactions. Emphasis is placed on legal terminology and problem-solving which can be useful for professional certification and entrance examinations.

233, 234. Operations & Information Systems

The course provides an introduction to the operations function and to information systems. It treats operations issues and decisions in both the manufacturing and service sectors. Students are introduced to specific operations methodologies, such as lean production, supply chain management, service operations management, inventory management, and capacity planning. The role of information technology and ethical dimensions of operations and information systems issues is integrated throughout the course.

Prerequisite: ACT 101 Financial Accounting and ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics and MTH 144 Intro to Statistical Analysis or MTH 104 Statistical Methods Meets general academic requirement W when offered as 234.

235, 236. Management

As a field of study, management extends from the decision-making thought process of the manager to dynamic human interactions within the organization to relationships between business and society. We will explore the art of management and build our understanding of what managers do, the issues they face, and who they are as people. And, we'll develop management skills and practice them both in class and in the context of our daily lives. Critical thinking will be developed through case studies and research, and awareness will be enhanced through survey instruments, learning teams, and class discussion.

Prerequisite: ACT 101 Financial Accounting and ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics and MTH 144 Intro to Statistical Analysis or MTH 104 Statistical Methods Meets general academic requirement W when offered as 236.

239, 240. Marketing

This course will provide a decision-oriented overview of marketing management in modern organizations. It will take a strategic approach to the presentation of marketing and will provide a broad introduction to marketing concepts, the role of marketing in society and in the firm, and the various factors that influence marketing decision making. Specific topics will include buyer behavior, marketing research, macro environment, new product development, product life cycle, channels of distribution, advertising, and pricing.

Prerequisite: ACT 101 Financial Accounting and ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics and MTH 144 Intro to Statistical Analysis or MTH 104 Statistical Methods

Meets general academic requirement W when offered as 240.

260, 261. Marketing in Not for Profit Organizations

Marketing in Not for Profit organizations is a service-learning course that builds upon what the students have studied in Marketing. Other marketing courses primarily refer to for-profit organizations. In this course, the students learn about the non-profit sector; read about pertinent philosophical, religious, and historical underpinnings behind philanthropy, volunteerism, and the non-profit sector; study marketing concepts and how they are applied at non-profits; and perform a hands-on service learning marketing project with a non-profit organization.

Prerequisite: BUS 239 or 240 Marketing or permission of instructor. Limited to juniors or seniors.

Meets general academic requirement W when offered as 261.

304. Electronic Commerce & the Internet

This course focuses on how tangible and electronic (or “digital”) products are produced, marketed, distributed, and supported in Internet environments. The course also includes a technological overview of the Internet and the Web, its organizational effects, security and privacy issues, electronic payment methods, legal and ethical issues, and e-commerce business models.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors

331, 332. Management Science

A survey of analytical models used to solve business problems in profit and nonprofit organizations. Topics include linear programming, integer programming, project scheduling, transportation and assignment models, decision analysis, forecasting, simulation models, and network models. Throughout the semester, spreadsheet software will be employed.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors

Meets general academic requirement W when offered as 332.

333, 334. Forecasting Models

An introduction to the mathematical and statistical models used in business and economic forecasting. Emphasis is placed on regression models, exponential smoothing, and Box Jenkins (ARIMA) models. Both forecasting theory and applications are examined.

Prerequisite: MTH 144 Introduction to Statistical Analysis or MTH 104 Statistical Methods and ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics. Limited to juniors or seniors

Meets general academic requirement W when offered as 334.

335, 336. Labor/Management Relations

The course begins with an introduction to and overview of major legislation affecting the labor movement in the U.S. Then, the major focus is on fostering an understanding of historical, contemporary, and likely future trends in the nature of labor/management relations in this country.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors

Meets general academic requirement W when offered as 336.

339, 340. Human Resources Administration

Concerns a broad range of important organizational activities, including the recruitment, selection, training, development, compensation, retention, evaluation, and promotion of personnel. This course places great

emphasis on the many laws that impact the firm's personnel decisions while viewing the human resource department as internal consultants to the organization in addressing cost, productivity, and quality problems related to the work force.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors
Meets general academic requirement W when offered as 340.

341, 342. Global Marketing

This course is designed to introduce students to the international business environment and to enable them to make marketing decisions in a global context. For instance, how will a different culture, a different legal environment, or a different level of literacy affect strategy? Issues to be addressed will include: How does the foreign environment affect a marketing strategy? Do we simply export to foreign markets or produce locally? Do we market the same product or adapt the product to the local market? Do we use the established distribution system or develop our own? Do we just shift a proven domestic campaign overseas or must we develop a plan tailored to each foreign market?

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors
Meets general academic requirement W when offered as 342.

345, 346. Marketing Management

An intermediate level course which builds on the foundations of BUS 239, 240 Marketing. The emphasis will be on the understanding and utilization of concepts and theories underlying marketing planning and study, consumer behavior, and industrial marketing. Integrates treatment of individual functional topics in marketing into a framework that facilitates understanding of the formulation, implementation, and evolution of an organization's total marketing strategy. The focus is on development of an appreciation of marketing as an essentially interdisciplinary phenomenon and a management oriented understanding of marketing as a dynamic process.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors
Meets general academic requirement W when offered as 346.

347, 348. Marketing Research

Marketing Research examines the use of information to improve marketing management decision making. Students will have exposure to qualitative and quantitative research techniques. Building upon the students' marketing and statistics knowledge and using a systems approach, the class discusses the identification of data needs, methods of data collection, and analysis and interpretation of findings. Attention is given to identifying the many sources of error that occur when conducting research and the importance of minimizing total error. Typically, teams of students conduct a marketing research project for a client. The projects culminate with an oral presentation to the client and an accompanying written report.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors
Meets general academic requirement W when offered as 348.

351. Entrepreneurial Studies

The initial entrepreneurship course is designed to awaken the student's entrepreneurial spirit. Class discussions and textbook readings will explore entrepreneurial characteristics, creative thinking methods, risk analysis, and business planning. Since the business plan serves as the model for entrepreneurial thinking, students will work in teams to build a business plan for a hypothetical business. Writing a business plan will expose the student to the marketing research methods, marketing strategies, and financial planning procedures needed to start a new venture.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors

352. Small Business Management

This course is designed to answer the "now what?" questions that face entrepreneurs once a new venture is launched. Issues include cash management, human resource issues, legal and regulatory concerns, ethical issues, operations, control of growth, distribution and sales, and successful exit strategies.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors

360, 361. Organizational Behavior

This course is an overview and application of theory explaining how and why people behave as they do with an emphasis on the human processes that occur in groups or organizations. We will explore the complex dynamics of how people work together, relate to co-workers, and respond to supervisors and leaders. And, we will develop insight into the behavioral influences that effect productivity, effectiveness, and efficiency. Students will be active participants, involved in group exercises, role plays, case discussions, and project teams.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors
Meets general academic requirement W when offered as 361.

365, 366. Leadership

We examine theories of leadership, including schools of thought that argue it is a trait, a style, a behavior, or a function of context. Consideration is given to what is best for leading individuals, groups, or organizations. The question of whether leadership is needed at all, whether gender makes a difference, or whether it is nothing more than “having a vision,” will be explored.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors
Meets general academic requirement W when offered as 366.

430. Organization Theory

This course examines contemporary organizational sciences: methods of organizational research; historical determinants of large-scale organizations; similarities and differences for profit, not-for-profit, and public organizations; organizational goals, effectiveness, structure, and technology; organizational birth, development, decline, and death; strategic design; organizational economics; organization-environment models.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to juniors or seniors

433, 434. Entrepreneurship Policy & Strategy (Venture Capital)

A case based seminar focusing on issues of venture capital and other forms of capitalization and enterprise growth, initial public offerings (IPOs), and entrepreneurial strategy.

Prerequisite: BUS 351 Entrepreneurial Studies. Limited to senior majors or minors
Meets general academic requirement W when offered as 434.

475. Business Policy & Strategy

The Business Policy & Strategy course integrates all earlier work in the major. In the capstone the student will develop the ability to consider an enterprise as an integrated entity, to use the concepts of policy and strategy, and to understand the environmental constraints and ethical considerations facing an organization. Each year student project teams in the various sections of the capstone will address a common theme, and the teams will present their project findings at a capstone poster session.

Prerequisite: BUS 233 or 234 Operations & Information Systems and BUS 235 or 236 Management and BUS 239 or 240 Marketing and FIN 237 or 238 Corporation Finance. Limited to seniors

960. Business Administration Internship

Under faculty supervision, students have the opportunity to learn by interning about ten hours per week in an organization. This gives students the opportunity to try out possible careers, apply classroom knowledge to “real world” situations, and establish contacts with professionals in their field of interest. Students are required to keep a professional journal, attend group meetings, and give a formal oral presentation about their internship experience. Pass-fail only.

Prerequisite: Limited to junior and senior majors or minors.

965. Entrepreneurial Practicum

Students may elect to work in an entrepreneurial business environment and write a business plan, or students may elect to create a new business that they intend to personally pursue after graduation and write a business plan. Students may also elect an independent study in the field of international entrepreneurship or venture capital investing and write a comprehensive report of the findings and conclusions. In all cases students will visit outside businesses and organizations as part of the work. All of these efforts will be supervised directly by the Entrepreneur-in-Residence.

Prerequisite: BUS 351 Entrepreneurial Studies, BUS 433 or 434 Entrepreneurship Policy & Strategy. Limited to seniors

CHEMISTRY (CHM)

Department Chair: Professor Donald W. Shive

Professor: Baar

Associate Professors: Anderson, Ingersoll, Russell

Assistant Professors: Colabroy, Keane, Kelsey, Smith,

Visiting Scientists: Ivanova, Panek

Lecturers: Casey, Gannon

The major program in chemistry provides a curriculum that accommodates and encourages students with various interests. The major program is organized around a required core of courses in the traditional areas of chemistry. Each course in the core curriculum involves a laboratory component that promotes (1) hands-on knowledge of scientific experimentation, (2) the capacity to interpret experimental data, (3) an ability to analyze data statistically, and (4) the skill to communicate results. The major also includes elective courses which broaden students' exposure to related areas of science. The chemistry department is accredited by the American Chemical Society.

SPECIAL PROGRAMS

Students planning to pursue graduate studies in chemistry or employment in a research position with a chemical or pharmaceutical firm will need to take the General Physics I, II sequence listed as electives. Individuals planning to pursue graduate studies are strongly advised to complete additional advanced courses in the sciences and math.

To achieve ACS certification students will need to complete additional courses beyond those required.

Students who wish to combine a chemistry major with other programs of study and who may be interested in pursuing careers in areas where a chemistry background may be useful, such as government service, law, sales, library science, or technical writing should consult with their chemistry advisor when choosing electives.

Students interested in the health professions should consult with the health professions office.

Candidates for teacher certification should consult with the Department of Education at Muhlenberg College.

Honors Program

Students who wish to receive honors in chemistry must announce their intention prior to the senior year and must fulfill the following requirements:

1. The candidate must attain an average 3.30 in all chemistry courses.
2. The candidate must submit an independent study/research paper no later than April 15 of the senior year. This paper must be based on a minimum of one course unit of research and must be approved by the Muhlenberg College faculty member who is directing his/her research.
3. The candidate must roster and complete the Seminar, CHM 050 and 950.
4. The candidate must pass an oral examination conducted by members of the Chemistry department.

PROGRAM REQUIREMENTS

Major Requirements

To declare and remain a major in chemistry, a student must maintain at least a 2.000 grade point average for all courses applicable to the major.

Required Courses:

CHM 103 General Chemistry I
CHM 104 General Chemistry II
CHM 203 or 205 Honors Organic Chemistry I **OR**
CHM 201 Organic Chemistry I
CHM 204 or 206 Honors Organic Chemistry II **OR**
CHM 202 Organic Chemistry II
CHM 311 Analytical Chemistry I
CHM 312 Analytical Chemistry II
CHM 321 Physical Chemistry I
CHM 322 Physical Chemistry II
CHM 331 Inorganic Chemistry
MTH 121 Calculus I
MTH 122 Calculus II

two courses numbered between 400 and 480:

CHM 403 Chiral Synthesis (0.5 course units)
CHM 404 Organic Synthesis Lab (0.5 course units)
CHM 410 Laboratory Robotics & Automation (0.5 course units)
CHM 420 Laser Chemistry (0.5 course units)
CHM 430 Organometallic Chemistry (0.5 course units)
CHM 480 Special Topics in Chemistry (0.5 course units)
Or other advanced courses approved by the department

Electives: two additional courses selected from:

PHY 121 General Physics I
PHY 122 General Physics II **or** PHY 250 Simulating Science
MTH 144 Introduction to Statistical Analysis **or** MTH 223 Calculus III **or**
MTH 226 Linear Algebra **or** MTH 227 Differential Equations
BIO 152 Principles of Biology III
BIO 220 Biochemistry
ESC 310 Environmental Chemistry **or** ESC 312 Toxicology

Chemistry Minor

A minor in chemistry consists of a total of seven course units in chemistry chosen from courses numbered 103 and above, including at least three course units numbered 300 or above. Courses in other departments cross-listed under chemistry may also be included.

CHEMISTRY COURSES

100. Introductory Chemistry

An introduction to the basic principles of chemistry with considerable attention given to reading and computational skills, problem solving skills, study skills, and good learning techniques in general. Designed for science students needing additional preparation for the General Chemistry courses (103 and 104). Three hours of lecture and recitation per week. Does not satisfy a major/minor or pre-professional requirement.
Meets general academic requirement S.

101. Chemistry of the Environment

Designed for students majoring in social sciences and humanities. A study of the basic principles of chemistry. The approach is qualitative, with reference to discoveries that were important in the development of the science of chemistry. The principles are applied to discussions of current environmental concerns such as air and water pollution, global warming, ozone depletion, alternative energy sources, and waste disposal. Additional topics may include aspects of metallurgy and geochemistry. No previous work in chemistry is assumed. Three hours (lecture-demonstrations) per week.
Meets general academic requirement S.

102. Chemistry of Life

Designed for students majoring in social sciences or humanities. A study of the basic principles of organic chemistry and biochemistry. The approach is mainly qualitative, with reference to discoveries that were important in the development of the science of chemistry. The principles are applied to discussion of topics such as food and food additives, medicines, drugs, toxicology, and the chemistry of body processes. No previous work in chemistry is assumed. Three hours (lecture-demonstrations) per week.
Meets general academic requirement S.

103. General Chemistry I

Designed as a basic course for students majoring in the physical or biological sciences. A study of the fundamental principles of chemistry and of the important elements and their compounds. Lecture-demonstrations and computer-assisted instruction are employed to illustrate concepts. Weekly recitations provide a small group setting for discussions and problem-solving. A laboratory component introduces students to a variety of fundamental techniques with emphasis on volumetric analysis, chemical equilibrium, and descriptive chemistry of selected elements. Three hours of lecture, one hour of recitation, and one three hour laboratory per week.

Prerequisite: High School chemistry
Meets general academic requirement S.

104. General Chemistry II

A continuation of Chemistry 103. One Chemistry 104 lab section is reserved for a small number of students, enrolled by invitation. This group engages in project work designed as an introduction to methods of scientific research. Three hours of lecture, one hour of recitation, and one three-hour laboratory per week.

Prerequisite: CHM 103 General Chemistry I
Meets general academic requirement S.

201. Organic Chemistry I

Designed for students majoring in biology and natural science. Structure, preparation, and properties of organic compounds with an emphasis on stereoisomerism, synthetic methods, and reaction mechanisms. Laboratory work involves an introduction to preparative and analytical techniques. Weekly recitations provide a setting for discussions and problem solving. Three hours of lecture, one hour of recitation, and one three-hour laboratory per week.

Prerequisite: CHM 104 General Chemistry II

202. Organic Chemistry II

A continuation of Chemistry 201. Three hours of lecture, one hour of recitation, and one three-hour laboratory per week.

Prerequisite: CHM 201 Organic Chemistry I

203, 205. Honors Organic Chemistry I

An investigation of the structure, properties, and reactivity of organic compounds. Topics emphasized include nomenclature, stereochemistry, spectroscopy, reaction mechanisms, and synthesis. Classroom and laboratory work are closely integrated. Laboratory work includes both collaborative efforts and individual investigations. Preparative and analytical techniques utilized in the synthesis of organic compounds are featured, as well as structure determination, molecular modeling, and investigation of reaction mechanisms. Hands-on use of a variety of instrumentation is emphasized. (A total of seven hours lecture, discussion, and laboratory per week.)

Prerequisite: CHM 104 General Chemistry II
Meets general academic requirement W when offered as 205.

204, 206. Honors Organic Chemistry II

A continuation of Chemistry 203 or 205.

Prerequisite: CHM 203 or 205 Honors Organic Chemistry I
Meets general academic requirement W when offered as 206.

311. Analytical Chemistry I

Data analysis, chemical equilibria, classical methods of analysis, and electroanalytical chemistry are explored. Data analysis and statistics including error propagation, confidence intervals, and analytical calibration methods are examined. Acid-base, oxidation-reduction, complex and multiple simultaneous equilibria are applied to analytical problems. Classical analytical methods, such as gravimetric and volumetric analysis, as well as electrochemical methods (ion selective electrodes, potentiometry, and voltammetry) are also discussed. Laboratory work involves the application of a variety of these methods to quantitative chemical analysis and experimental design and implementation. Three hours of lecture and one three-hour laboratory per week.

Prerequisite: CHM 202 Organic Chemistry II or CHM 204 or 206 Honors Organic Chemistry II

312. Analytical Chemistry II

Theory, instrumentation, and applications of instrumental methods of analysis involving separations and interaction of electromagnetic radiation with matter are discussed. Principles of analytical separation methods are explored, including gas, liquid and supercritical fluid chromatographies, and capillary electrophoresis and electrochromatography. Topics on atomic and molecular spectroscopy include atomic absorption, emission and fluorescence, ultraviolet-visible, molecular fluorescence and phosphorescence,

Fourier transform infrared, and mass spectrometry. In addition, techniques are reinforced through practical experience in a well-equipped instrumentation laboratory. Three hours of lecture and one three-hour laboratory per week.

Prerequisite: CHM 311 Analytical Chemistry I

321. Physical Chemistry I

The basic principles of quantum mechanics and their applications to problems of chemical interest are discussed. Topics include atomic and molecular structure, chemical bonding, and molecular spectroscopy. In addition, the fundamentals of chemical kinetics, reaction rate theories, and reaction mechanisms are investigated. Three hours of lecture and one three-hour laboratory per week.

Prerequisite: CHM 202 Organic Chemistry II or CHM 204 or 206 Honors Organic Chemistry II and MTH 122 Calculus II

322. Physical Chemistry II

Principles and applications of chemical thermodynamics are explored, including the concepts of internal energy, enthalpy, entropy, free energy, and chemical potential. Concepts are interpreted on a molecular level and applied to a variety of problems: chemical reactions, chemical equilibria, phase changes, solution chemistry, and bioenergetics. Statistical mechanics is introduced to demonstrate the connection between properties of individual molecules and the thermodynamic properties of macroscopic systems. Three hours of lecture and one three-hour laboratory per week.

Prerequisite: CHM 202 Organic Chemistry II or CHM 204 or 206 Honors Organic Chemistry II and MTH 122 Calculus II

331. Inorganic Chemistry

Modern theories of atomic and molecular structure are covered at an advanced level. Particular emphasis is given to symmetry, ligand field theory, coordination chemistry, and applications of inorganic systems. Three hours of lecture and four hours of laboratory per week.

Prerequisite: CHM 202 Organic Chemistry II or CHM 204 or 206 Honors Organic Chemistry II.

403. Chiral Synthesis

0.5 course units

Methods for achieving asymmetric synthesis and resolving racemic mixtures will be explored. This will include classical enantiomeric resolution, the use of chiral auxiliaries, chiral reagents, chiral starting materials, and the employment of stereoselective reactions. Key syntheses from primary literature that utilize these methods will serve as a framework to illustrate the chiral strategies. Students will present articles from primary literature. (Two 75 minute lecture/presentations per week).

Prerequisite: CHM 202 Organic Chemistry II or CHM 204 or 206 Honors Organic Chemistry II

404. Organic Synthesis Lab

0.5 course units

This is a lab course designed to introduce students to modern organic synthesis using a project-based format. Each student will design and execute a multi-step synthesis of a target molecule. Students will utilize the chemical literature and on-line literature searching protocols and will document their results with in-class presentations as well as written reports. Product analysis will include use of IR, NMR, GC/MS, and UV/Vis spectrometers. Significant use will also be made of molecular modeling. (One hour lecture, three hours of lab per week).

Prerequisite: CHM 202 Organic Chemistry II or CHM 204 or 206 Honors Organic Chemistry II

410. Laboratory Robotics & Automation

0.5 course units

Automated techniques and philosophies, as applied to the modern analytical laboratory, will be discussed. Automated analytical sample preparation, data acquisition, and data analysis methods will be explored both as reported in the primary literature and through hands-on experimentation in the laboratory. Robotic workstations for liquid handling and experimental design approaches will be used to systematically study sample preparation variables in the automated laboratory. Contemporary analytical separations will be used for sample analysis with an emphasis on pharmaceutical applications

Pre- or co-requisite: CHM 312 Analytical Chemistry II or permission of instructor

420. Laser Chemistry**0.5 course units**

Students will explore the workings of lasers and how chemists take advantage of their properties to probe the dynamics and energies of chemical reactions. The course will begin with some commercial applications of lasers and progress rapidly to the discussion of femtosecond spectroscopy and how it is being used to investigate the breaking of bonds in real time.

Prerequisite: CHM 321 Physical Chemistry I or permission of instructor

430. Organometallic Chemistry**0.5 course units**

The chemistry of compounds containing metal-carbon bonds will be explored. Topics will include the structure and bonding of organometallic compounds, their reactions and reaction mechanisms, spectroscopy, and their use in industrial processes and organic synthesis.

Pre- or co-requisite: CHM 331 Inorganic Chemistry

480. Special Topics in Chemistry**0.5 course units**

Variable content depending upon the interests of the students.

Prerequisite: Permission of instructor

050, 950. Seminar**0.0 or 0.5 course units**

The seminar features presentations by students, faculty members, and visiting scientists. In the fall semester, students are introduced to the use of the chemical literature, including on-line searching of *Chemical Abstracts* and other scientific databases. To receive 0.5 course units for the seminar, a student must enroll in two semesters of the course, including at least one fall semester, and present a seminar along with a written report. Participation includes attending a specified number of seminars each semester.

960. Chemistry Internship

Majors are eligible for internship programs with the approval of the department.

COMPUTER SCIENCE (CSI)

Department Chair: Associate Professor David Nelson

Associate Professor: Benjamin

Assistant Professor: Kusmaul

Computer science encompasses the study of computation and information processing in both hardware and software. The curriculum combines a rigorous foundation in programming and core CS topics with a variety of advanced electives. The CS major will prepare students for graduate work or employment in a variety of roles, including as analysts, software designers and developers, and systems administrators.

Honors Program

At commencement, honors in computer science are awarded to qualified students. The requirements for honors are: (a) a grade point average in the computer science major of at least 3.500, (b) an overall grade point average of at least 3.300, and (c) successful completion of a significant research project approved by the CS faculty.

PROGRAM REQUIREMENTS

Major Requirements

CSI 110 Computer Science I
CSI 111 Computer Science II
CSI 210 Software Engineering
CSI 220 Data Structures & Algorithms
CSI 240 Computer Organization
CSI 370 Computer Science Seminar
MTH 121 Calculus I
MTH 215 Discrete Structures (or MTH 345 Combinatorics & Graph Theory)

Four electives chosen from:

CSI 305 Database Systems
CSI 310 Programming Languages
CSI 320 Theory of Computation
CSI 326 Artificial Intelligence
CSI 340 Compiler Design
CSI 345 GUI & Web Programming
CSI 350 Operating Systems
CSI 355 Data Communications & Networks
At least one of these electives must be CSI 310 Programming Languages, CSI 320 Theory of Computation or CSI 350 Operating Systems.

One course chosen from:

MTH 122 Calculus II
MTH 144 Introduction to Statistical Analysis

Minor Requirements

CSI 110 Computer Science I
CSI 111 Computer Science II
CSI 220 Data Structures & Algorithms
MTH 121 Calculus I
MTH 215 Discrete Structures (or MTH 345 Combinatorics & Graph Theory)

Two electives chosen from:

CSI 210 Software Engineering
CSI 240 Computer Organization
CSI 305 Database Systems
CSI 310 Programming Languages
CSI 320 Theory of Computation
CSI 326 Artificial Intelligence
CSI 340 Compiler Design
CSI 345 GUI & Web Programming
CSI 350 Operating Systems
CSI 355 Data Communications & Networks

COURSES

101. Introduction to Computers

An introduction to general concepts of computer science and electronic data processing using modern desktop and networked computers. Topics include computer hardware, applications such as spreadsheets, graphics, presentation, and file transfer software, as well as the history of computers. The development of interactive Web pages using HTML and JavaScript is also covered. This course does not satisfy a major or minor requirement.

110. Computer Science I

The design, construction, and verification of computer programs using an object-oriented programming language. Topics include algorithm development and design techniques, control structures, and data types. Four class hours per week.

Meets general academic requirement G

111. Computer Science II

A continuation of CSI 110 Computer Science I. Emphasis is placed on programming methodology, fundamental data structures (stacks, queues, linked lists, trees) and their implementation, searching, sorting, pointers, and recursion. Four class hours per week.

Prerequisite: CSI 110 Computer Science I

Meets general academic requirement G

210. Software Engineering

A project-based study of the theory, practice, processes, and tools used to design, build, and maintain large software systems. Topics include requirements analysis, system architecture, design, testing, maintenance, and project maintenance, as well as professional practice, risks, intellectual property, and social impact of computing.

Prerequisite: CSI 111 Computer Science II

Meets general academic requirement W

220. Data Structures & Algorithms

A study of the use and implementation of various structures for storing data. Topics include abstract data types, lists, trees, graphs, recursion, and the analysis and measurement of algorithms.

Prerequisite: CSI 111 Computer Science II and MTH 215 Discrete Structures

240. Computer Organization

An introduction to the architecture and operation of a computer system. Topics include assembly language programming, addressing methods, subroutines, microcode, assemblers, and linkers.

Prerequisite: CSI 110 Computer Science I

305. Database Systems

An introduction to the hierarchical, network, and relational models of databases. Topics covered will be data structures, file organization, knowledge representation, query languages, data analysis, and administration. Offered in alternate years.

Prerequisite: CSI 220 Data Structures & Algorithms

310. Programming Languages

A study of the principles that govern the design and implementation of contemporary programming languages. Topics include lexical properties, compilers, interpreters, data structures, control structures, parameter passage, and run-time environments. Procedural, functional, object oriented, and logic programming languages will be considered. Offered in alternate years.

Prerequisite: CSI 220 Data Structures & Algorithms

112 /

320. Theory of Computation

A study of the basic theoretical principles of computer science. Topics include finite automata, pushdown automata, regular expressions, Turing machines, the halting problem, unsolvability, and computational complexity. Offered in alternate years.

Prerequisite: CSI 220 Data Structures & Algorithms and MTH 215 Discrete Structures

326. Artificial Intelligence

An introduction to the topics of Artificial Intelligence: intelligent agents, search, logic, planning, learning, natural language processing, vision, robotics. Students will write programs in Lisp and Prolog.

Prerequisite: CSI 220 Data Structures & Algorithms and MTH 121 Calculus I

340. Compiler Design

An introduction to the principles of compiler design. Topics include LL(k) and LR(k) languages, code generation, optimization, and error recovery. Offered in alternate years.

Prerequisite: CSI 220 Data Structures & Algorithms and CSI 240 Computer Organization

345. GUI & Web Programming

The tools and techniques used to create computer programs that have rich graphical user interfaces (GUIs). Emphasis is placed on applications that make use of the World Wide Web. Topics will include XHTML, Javascript, Java servlets, and CGI programming.

Prerequisite: CSI 220 Data Structures & Algorithms

350. Operating Systems

An introduction to the management of processes, memory, and I/O devices in a multiprogramming environment. Topics include file systems, resource sharing, scheduling, interrupts, and concurrency. Offered in alternate years.

Prerequisite: CSI 220 Data Structures & Algorithms, CSI 240 Computer Organization, and MTH 121 Calculus I

355. Data Communications & Networks

The concepts and techniques used to implement communications using computer networks. Topics include the ISO network model, protocols, direct link networks, packet switching, and the Internet. Several currently used standards and network software will be examined.

Prerequisite: CSI 220 Data Structures & Algorithms, CSI 240 Computer Organization, and MTH 121 Calculus I

370. Computer Science Seminar

Advanced study of selected topics in computer science. Students will also work in teams on a significant software project.

Prerequisite: CSI 210 Software Engineering, CSI 220 Data Structures & Algorithms, and CSI 240 Computer Organization, or by permission

Meets general academic requirement W

DANCE (DNC)

Department Chair: Associate Professor James Peck

Dance Program Director: Professor Karen Dearborn

Professor: Dretsch

Associate Professor: Averill

Assistant Professors: Anderson, Carlson

Lecturers: Byrne, Cowart, Oliver

The dance program is designed to provide a solid background in the history and theory of the art in conjunction with intensive study in a variety of dance techniques. In addition to the full-time faculty, the department employs eight professional artists, each a specialist within a specific dance style, as well as four professional musicians to play for classes and performances. The curriculum, based in the liberal arts tradition, serves as an excellent preparation for graduate study programs and careers in dance. Careers that dance majors and minors typically pursue include teaching, dance therapy, choreography, performance, physical therapy, and arts management.

SPECIAL PROGRAMS

Dance at Muhlenberg is joined with the theatre program to form the Department of Theatre and Dance. The faculty, staff, and students in both areas work closely together in the department's performance program which annually features five to seven major dance concerts, a musical theatre production, and several plays. In addition, the department sponsors several off-campus touring ensembles in dance. All students, regardless of major, are eligible to participate in the performance program and work on production crews. Students with a serious interest in musical theatre performance can study acting and dance within the department and receive vocal training in the Department of Music.

The Baker Artist-in-Residence Program brings nationally distinguished professional guest artists to Muhlenberg each year to teach and participate in the performance programs of dance, music, and theatre. Recent semester-long residencies have included Robert LaFosse, Danny Buraczeski, Doug Varone and Dancers, and David Dorfman Dance.

PROGRAM REQUIREMENTS

Major Requirements

Eleven course units satisfy the dance major; however, in order to maintain proficiency, it is recommended that dance majors study dance technique throughout their college career.

Required Core Courses:

- DNC 101 or 102 Dance & Society
- DNC 115 Dance Technique & Performance
- DNC 201 Dance History
- DNC 355 Anatomy & Kinesiology for Dancers
- DNC 260 Dance Composition
- Six 0.5 unit courses in dance technique including one semester of DNC 160 Movement Workshop for Actors & Dancers and one semester of DNC 250 Experiential Anatomy & Somatic Practice

Choose one of the following:

- DNC 150 African Dance & Cultures
- DNC 350 Teaching Dance
- DNC 360 Advanced Composition

Three required cognate courses (2 units)

- BIO 102 Concepts of Biology: Biology of Movement **OR**
- BIO 200 Human Anatomy & Physiology I
- THR 165 Stagecraft: Aesthetics & Lighting (0.5 units)
- THR 166 Stagecraft: Scenic Techniques (0.5 units) **OR**
- THR 167 Stagecraft: Costume Techniques (0.5 units)

Minor Requirements

Required Courses:

- DNC 101 or 102 Dance & Society
- DNC 115 Dance Technique & Performance
- DNC 201 Dance History

Choose one of the following:

- DNC 260 Dance Composition
- DNC 355 Anatomy & Kinesiology for Dancers

Six 0.5 unit dance technique courses including:

- one semester of DNC 160 Movement Workshop for Actors & Dancers **OR**
- one semester of DNC 250 Experiential Anatomy & Somatic Practice **AND**
- one semester simultaneously enrolling in ballet and modern dance **OR**
- DNC 115 Dance Technique & Performance

COURSES

101, 102. Dance & Society

A global survey of dance in various cultural, historical, and social contexts. Students will explore how dance communicates human history and experience. Course work includes dance viewing, reading, critical analysis, and movement exploration.

Meets general academic requirement A (and W which applies to 102 only).

115. Dance Technique & Performance

This is the foundation course for first year students considering a dance major or minor. The course is primarily a studio experience focused on exploring the theoretical basis of concert dance via practice of dance technique and performance. Included are investigations of the anatomical and biomechanical principles of movement as well as the cognitive processes of learning and performing dance. Students must be at the intermediate or advanced level in either ballet, modern, or jazz dance.

Meets general academic requirement A.

150. African Dance & Cultures

This course is designed to introduce the student to African and African-derived dance forms. The cultural contexts of secular and religious dance forms are emphasized. Students are involved in physical training, the perfection of style, integration of music and dance, and an appreciation of the diverse values that are

embodied in movement. The course includes lecture, video presentations, discussion, singing, drumming, and dancing.

Meets general academic requirement D.

160. Movement Workshop for Dancers & Actors

0.5 course unit

Studio work to expand one's range of expression by crossing borders between dance/theatre/sound. Elements include Modern Dance, Sound and Movement Improvisation, Contact Improvisation, Body Therapies, Yoga, and Theatre Studies.

201. Dance History

A lecture/discussion course devoted to the study of 19th and 20th century dance in its social-political and cultural context. Focus on American theatrical dance forms (ballet, modern, jazz) and their origins in French, Russian, German, and African societies. Films, video, and field trips will be used to supplement class discussion.

Prerequisite: DNC 101 or 102 Dance & Society

Meets general academic requirement H and W.

260. Dance Composition

Theory and experience in structuring movement from simple phrases to complex organizational units. The student will explore in solo, duet, or group forms various devices and motivations used in creating dances. Reading, writing, and critical analysis included.

Prerequisite: DNC 160 Movement Workshop for Dancers & Actors and one of the following: DNC 115 Dance Technique & Performance or DNC 240 Interm Modern Dance or DNC 340 Advanced Modern Dance

350. Teaching Dance: Theory & Methods

This course introduces various theories of dance/movement education and how they apply in a variety of populations in diverse settings (pre-school, K-12, special populations, community crossovers, private studios, and older adults). Course work includes lecture, class discussion, guest speakers, reading, observation, written analysis, peer teaching, and fieldwork.

Prerequisite: DNC 115 Dance Technique & Performance

355. Anatomy & Kinesiology for Dancers

This course examines the science of human motion with particular emphasis on the biomechanics of dance. Course content covers the human skeletal system; joint biomechanics relevant to dance; muscle origin, insertion and action; and the role gravity plays in muscle action. Analysis of physical structure, function, and dynamic alignment as they relate to performance enhancement and injury prevention are investigated.

Prerequisite: BIO 102 Concepts of Biology or BIO 200 Human Anatomy & Physiology I

360. Advanced Dance Composition

Advanced theory and experience in creating dances. Studio work in movement exploration and compositional structure are complemented by films, video, trips to see dance, critical analysis, and reading and writing assignments.

Prerequisite: DNC 260 Dance Composition

950-959. Community Performance Ensemble

0.5 course unit

Members of the Community Performance Ensembles in dance and theatre develop, rehearse, and tour programs (dance performances, plays, and interactive dramatic pieces) for presentation at schools, community centers, and senior citizen residences. In addition to participation in the touring ensemble, students will be expected to submit a journal about their experience in mounting the production and touring to diverse audiences. Audition may be required for participation. May be repeated for credit.

TECHNIQUE COURSES

Dance technique courses meet for three to five hours a week and are worth 0.5 course units. The fine arts (A) general academic requirement applies when two dance idioms

are completed in the same semester. Technique courses at all levels are repeatable for credit.

Placement at the appropriate level is determined by level of expertise in the dance idiom. Beginning classes are designed for students with very little or no prior experience in the dance form. Intermediate classes are for those with several years of prior training while advanced classes are for those with significant professional training and demonstrated advanced skills.

110. Beginning Ballet **0.5 course unit**
Introduction to the fundamentals of classical ballet. Areas covered will include the understanding of correct body placement; positions of the feet, head, and arms; musicality; and the development of the elementary habits of movement applicable to the form.

120. Beginning Jazz Dance **0.5 course unit**
Introduction to the fundamentals of jazz dance technique. Areas covered include polyrhythms, body isolations, movement analysis, and syncopation. Performance of simple dance phrases using fundamental forms.

130. Beginning Jazztap **0.5 course unit**
This course will cover the fundamentals of tap dance technique, composition, and beginning improvisation. There will be an emphasis on the musical component of jazztap with jazz piano accompaniment and rhythm workshops. Flat tap shoes required.

140. Beginning Modern Dance **0.5 course unit**
Introduction to the basic principles of dance movement. Areas covered will include body alignment, coordination, strength and flexibility, and basic forms of locomotion.

210. Intermediate Ballet **0.5 course unit**
A continued elaboration of classical ballet technique through barre and center practice with emphasis on body placement, flexibility, strength, and the application of these principles to movement. Increased vocabulary and development of performance quality and styles.

211. Accelerated Intermediate Ballet **0.5 course unit**
For the advanced intermediate student.

220. Intermediate Jazz Dance **0.5 course unit**
A further examination of jazz dance principles of polyrhythms, syncopation, and body isolations with an emphasis on more extended movement phrases and musicality. Focus on clarity of style and presentation.

221. Accelerated Intermediate Jazz Dance **0.5 course unit**
For the advanced intermediate student.

230. Intermediate Jazztap **0.5 course unit**
Concentration on expanding tap vocabulary, creating choreography, and practice on improvisation with live music. The emphasis will be on performance and the development of each student's personal style.

231. Accelerated Intermediate Jazztap **0.5 course unit**
For the advanced intermediate student.

240. Intermediate Modern Dance**0.5 course unit**

Concentration on specific techniques fundamental to modern dance: mobilizing weight, articulating joints, increasing range, and incorporating strength. Additional attention to movement expression: phrasing, dynamics, and rhythm.

241. Accelerated Intermediate Modern Dance**0.5 course unit**

For the advanced intermediate student.

250. Experiential Anatomy & Somatic Practice for Dancers**0.5 course unit**

This course is designed to provide a studio experience for investigation of applied anatomy and kinesiology with particular emphasis on movement re-patterning. Readings focus on the historical development and practical applications of a variety of somatic practices whose purpose is to change mental and physical action to produce a healthier and more balanced moving body. Studio work emphasizes participation in at least one form of somatic practice and how it enhances study in the traditional dance technique class. Written work investigates the connections between theory, science, and functionality.

310. Advanced Ballet**0.5 course unit**

Concentration on specific techniques fundamental to expertise in classical ballet. Increasingly complex combinations at the barre and in center work. Further development of performance technique and personal style in the classical genre. Composition and pointe work included at discretion of instructor.

320. Advanced Jazz Dance**0.5 course unit**

Advanced principles of jazz dancing: complex rhythmic analysis, extended movement phrases, development of individual jazz dance style. Compositional studies in jazz dance.

330. Advanced Jazztap**0.5 course unit**

Advanced principles of tap dance including improvisation, choreography, complex rhythmic analysis, and development of individual style.

340. Advanced Modern Dance**0.5 course unit**

Refinement of technical clarity, performance skills, and composition. Musicality, interpretation, and learning longer movement sequences.

ECONOMICS (ECN)

Department Chair: Professor Arthur Raymond

Professors: Heitmann, Kish-Goodling, Marshall

Assistant Professors: Dale, Knox

Visiting Professor: Laposata

Distinguished Visiting Scholar: Walsh

Internship Director: Eisenberg

The economics major provides students with a comprehensive understanding of fundamental principles that underlie the functioning of the market system and the national and international economy and the analytical and quantitative skills needed for a thoughtful assessment of current economic issues and policies. Additionally, the major prepares students for graduate work in business and economics and careers with business and government.

The department houses a chapter of Omicron Delta Epsilon, the international honor society in economics.

SPECIAL PROGRAMS

Education Abroad

Besides Muhlenberg's traditional education abroad programs, an international program has been designed especially for students in the Accounting, Business, and Economics Department. The program is offered through the Center for European Studies at the University of Maastricht in the Netherlands and would generally be taken during the fall semester of the junior year (but fall semester enrollment during the senior year is possible). In this program, students attend courses in European business, economics, and politics, taught in English. Besides deepening global and cultural awareness, students have opportunities to travel to France, Belgium, and Germany, all of which are less than thirty minutes away, and meet business and political leaders from those countries (see page 62).

Participating students take three courses as a cohort and, additionally, individually enroll in a fourth course selected from the University of Maastricht's regular (English language) course offerings. The three commonly enrolled courses have been approved by the faculty as Muhlenberg courses. These courses are listed below with the department's other regular course offerings. All business or economics courses enrolled by participating students may be used to satisfy major requirements. Early consultation with your faculty advisor is encouraged.

Honors Program

A departmental honors program is available on an application basis to students who establish outstanding academic records in their major field (minimum of 3.500). Interested students should discuss the requirements and rewards of this program with their faculty advisor before the end of their junior year.

Internship Opportunities

The department has an extensive internship program that provides the economics major with a wide range of opportunities to gain valuable work experience. Supervised paid and unpaid internships, which contribute to the Muhlenberg degree, are available during the regular school year. In addition, the department offers assistance in obtaining paid summer internships that may also contribute to the degree.

PROGRAM REQUIREMENTS

Major Requirements

The economics curriculum balances the academic interests and career intentions of its majors. The program outlined below emphasizes analytical and quantitative skills.

In order to declare and remain a major in good standing, a student must achieve and maintain a cumulative grade point average of at least 2.000 in all courses applicable to the major. Students majoring/minoring in economics cannot take accounting, business, economics, or finance courses on a pass-fail basis.

A major in economics must complete 11 courses as outlined below:

Foundations:

ECN 101 Principles of Macroeconomics
ECN 102 Principles of Microeconomics
MTH 144 Introduction to Statistical Analysis (preferably) **OR**
MTH 104 Statistical Methods
MTH 121 Calculus I

Core:

ECN 220 or 221 Intermediate Microeconomic Theory
ECN 222 or 223 Intermediate Macroeconomic Theory
ECN 350 or 351 Econometrics **OR**
BUS 333 or 334 Forecasting Models

Elective Courses (Choose four):

ECN 243 or 244 Health Care Economics
ECN 245 or 246 Environmental Economics
ECN 247 or 248 Economics of Men & Women at Work
ECN 249 or 250 Economics of Natural Resources & Sustainability
ECN 332 or 333 Public Finance
ECN 334 or 335 International Trade & Globalization
ECN 336 or 337 Economic Growth & International Development
ECN 338 or 339 Labor Economics
ECN 340 or 341 History of Economic Thought
ECN 348 or 349 Industrial Organization & Strategic Behavior
HST 325 or 326 American Economic History

In addition to the above courses, student may choose to take *no more than two finance courses*.

Minor Requirements

A minor in economics must complete seven courses of work as outlined:

120/

Required Courses:

ECN 101 Principles of Macroeconomics
ECN 102 Principles of Microeconomics
ECN 220 or 221 Intermediate Microeconomic Theory
ECN 222 or 223 Intermediate Macroeconomic Theory
MTH 121 Calculus I

Electives (Choose two):

ECN 243 or 244 Health Care Economics
ECN 245 or 246 Environmental Economics
ECN 247 or 248 Economics of Men & Women at Work
ECN 249 or 250 Economics of Natural Resources & Sustainability
ECN 332 or 333 Public Finance
ECN 334 or 335 International Trade & Globalization
ECN 336 or 337 Economic Growth & International Development
ECN 338 or 339 Labor Economics
ECN 340 or 341 History of Economic Thought
ECN 348 or 349 Industrial Organization & Strategic Behavior

Students pursuing a minor in economics must choose electives with the close consultation of their advisor. There are some courses not included in the list of electives for the minor that may be deemed appropriate by the student and advisor.

Advice for Economics Majors

1. ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics can be taken in any order. Both courses may be taken during either the first or second years.
2. Students are well advised to enroll in ECN 220 or 221 Intermediate Microeconomic Theory and ECN 222 or 223 Intermediate Macroeconomic Theory before or simultaneous with enrolling in any economics course numbered 300 or greater.
3. MTH 121 Calculus I should be completed during the first year.
4. MTH 144 Introduction to Statistical Analysis **OR** MTH 104 Statistical Methods should be completed during the sophomore year. MTH 144 Introduction to Statistical Analysis is the preferred statistics course.
5. Students planning on going on to graduate school in economics or finance are encouraged to take MTH 122 Calculus II, MTH 226 Linear Algebra, MTH 227 Differential Equations, and MTH 223 Calculus III.

COURSES

101. Principles of Macroeconomics

The fundamental determinants of economic activity, inflation, depression, international finance, and development. Monetary, banking, and fiscal institutions are considered in relation to their role in contemporary public policies designed to cope with these problems.

Meets general academic requirement B.

102. Principles of Microeconomics

The operation of the price mechanism in modern enterprise economies. Allocation of resources and distribution of income in competitive and monopolistic markets for products, labor, and other resources. Contemporary issues in microeconomic theory and policy are examined.

Meets general academic requirement B.

220, 221. Intermediate Microeconomic Theory

A specialized examination of certain aspects of price analysis such as the consumer, the firm, market structures, price determination, and income distribution.

Prerequisite: ECN 102 Principles of Microeconomics and MTH 121 Calculus I

Meets general academic requirement W when offered as 221.

222, 223. Intermediate Macroeconomic Theory

An advanced treatment of the concepts of national income growth and fluctuations in the light of both Keynesian and post-Keynesian income theories.

Prerequisite: ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics

Meets general academic requirement W when offered as 223.

243, 244. Health Care Economics

The purpose of this course is to study the facts, concepts, and analyses necessary to understand national health care. The emphasis of the course will be on the economic arguments for or against alternative public policy initiatives in health care and public and private health care systems.

Prerequisite: ECN 101 Principles of Macroeconomics or ECN 102 Principles of Microeconomics

Meets general academic requirement W when offered as 244.

245, 246. Environmental Economics

This course explores the relationship between the economy and the environment. Mainstream economic theories and policies will be analyzed from a critical and American policy perspective. The impact of externalities, social costs, property rights, market controls, government regulations, and economic development on environmental protection will be analyzed. Other topics covered will include accounting for pollution and resource depletion in GDP statistics, cost-benefit analysis, population, and sustainable development. Offered in the spring semesters of odd numbered years.

Prerequisite: ECN 101 Principles of Macroeconomics or ECN 102 Principles of Microeconomics

Meets general academic requirement W when offered as 246.

247, 248. Economics of Men & Women at Work

An examination and comparison of the behavior and problems of men and women in the economy as workers, consumers, and household members. Economic institutions and outcomes will be analyzed using neoclassical or mainstream economic theories contrasted with newly emerging feminist economic research and theoretical perspectives. Offered in fall semesters of odd numbered years.

Prerequisite: ECN 101 Principles of Macroeconomics or ECN 102 Principles of Microeconomics

Meets general academic requirement W when offered as 248.

249, 250. Economics of Natural Resources & Sustainability

The application of economic principles to the allocation and use of renewable and nonrenewable natural resources and the study of the environmental integrity of economic development. More than one-half of the course is devoted to the development of the economic principles used to (1) study natural resource use and allocation and (2) understand the economic and political systems in which natural resource decisions are made. The remainder of the course applies these principles to specific natural resources, including population, minerals, energy, forest products, water, wildlife, and biodiversity.

Prerequisites: ECN 101 Principles of Macroeconomics or ECN 102 Principles of Microeconomics

Meets general academic requirement W when offered as 250.

332, 333. Public Finance

Analysis of government's role in a mixed economy. Principles of government expenditure and taxation and structure of the U.S. tax system, with emphasis on tax incidence and the effect of tax and spending policies

on economic efficiency. The effects of the public debt and deficit are analyzed. Offered in the spring semesters of even numbered years.

Prerequisite: ECN 220 or 221 Intermediate Microeconomic Theory

Meets general academic requirement W when offered as 333.

334, 335. International Trade & Globalization

The study of the benefits and costs of international trade, including the effects of trade on employment, the distribution of income within nations and across nations, and the environment. The public policy implications will be a central part of the analysis of international trade.

Prerequisite: ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics.

Meets general academic requirement W when offered as 335.

336, 337. Economic Growth & International Development

The course begins with an introduction of the concept and measurement of economic growth and development. Models of growth and development processes are then analyzed. Problems in areas such as population, education, savings and capital formation, natural resources, foreign trade, foreign aid, etc. are examined, and possible policy measures are explored.

Prerequisite: ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics.

Meets general academic requirement W when offered as 337.

338, 339. Labor Economics

Labor market analysis both in micro as well as in macro contexts. In microanalysis, subjects such as wage determination, wage differentials, labor mobility, etc. will be discussed. The macroanalysis covers, among other topics, the following: relationship between wages, prices, and employment; general unemployment and its cures; labor productivity; and labor share in national income.

Prerequisite: ECN 101 Princ of Macroeconomics and ECN 102 Princ of Microeconomics. ECN 220 or 221 Interm Microeconomic Theory and ECN 222 or 223 Interm Macroeconomic Theory are recommended.

Meets general academic requirement W when offered as 339.

340, 341. History of Economic Thought

This course traces the development of systematic economic reasoning from the pre-Mercantilist period to modern times. Attention is given to the influence of changing economic conditions and institutions on the progress of economic thought. The seminal ideas of Smith, Malthus, Ricardo, Marx, Walras, Marshall, Keynes, and others are examined. The schools of economic thinking that grew out of the work of these major contributors are studied, including Classical, Marginalist, Neo-Classical, Institutional, Keynesian, and Radical economics. The evolution of mainstream economics from its early beginnings as laissez-faire political economy to its contemporary scientific approach is considered. The role of scientific methodology in economic inquiry is examined. The historical roots of current economic issues and debates are studied.

Prerequisite: ECN 220 or 221 Intermediate Microeconomic Theory and ECN 222 or 223 Intermediate Macroeconomic Theory

Meets general academic requirement W when offered as 341.

348, 349 Industrial Organization & Strategic Behavior

This course will introduce the student to game theory and its applications in describing the behavior of firms and individuals. We shall examine market structure and its effect on firm behavior and apply modern analytic techniques to develop a thorough understanding of strategic decisions.

Prerequisite: ECN 220 or 221 Intermediate Microeconomic Theory or permission of instructor

Meets general academic requirement W when offered as 349.

350, 351. Econometrics

The use of statistical techniques to estimate structural relationships in economics and finance. The basic statistical model employed is the ordinary least squares model in its bivariate and multi-variate form. Tests and corrections for violations of the assumptions of the ordinary least squares model will be developed. Students will be required to use an econometrics computer program.

Prerequisite: ECN 220 or 221 Intermediate Microeconomic Theory or ECN 222 or 223 Intermediate Macroeconomic Theory and MTH 121 Calculus I and MTH 144 Introduction to Statistical Analysis or MTH 104 Statistical Methods

Meets general academic requirement W when offered as 351.

960. Economics Internship

Under faculty supervision, students will be placed in internship positions with local business and other related organizations in order to gain experience in the application of the theories and concepts learned in the classroom. Students will be required to document their experiences in a written journal, to share their experiences with others in a classroom setting, and to prepare a significant term paper or project report. Open to juniors and seniors only. Pass-fail only.

EDUCATION (EDU)

Department Chair: Professor Michael J. Carbone

Associate Professor: Rosenberg

Assistant Professor: Shive

Instructor and Coordinator of Professional Programs: Kim

Director of Student Teaching Programs and Lecturer: Byrne

Director of Fieldwork Programs and Instructor: Richwine

Coordinator of Professional Development Schools Project: Bonekemper

Student Teacher Supervisors: Farnham, McClain, Rohrbach, Szabo

Muhlenberg College provides programs leading to certification for teaching in secondary and elementary schools. In both cases, the student is required to complete a subject major in addition to the requirements of the certification program. The College's teacher certification programs are approved by the Pennsylvania Department of Education. See the Education Department for our current pass rate on the PRAXIS examinations required by Pennsylvania and many other states.

Muhlenberg offers programs leading to secondary school teaching certification in biology, chemistry, English, French, German, Spanish, mathematics, physics, citizenship, social studies, and environmental studies. Details regarding specific requirements are available from the Department of Education. Students in these programs have at least two faculty advisors: a member of the department offering the subject major and a member of the Department of Education. The Department of Education sets standards for and supervises all pre-professional aspects of the program. Its policies are clearly outlined in the *Education Department Handbook*, published every year. **All students are responsible for familiarizing themselves with this document and following its procedures and guidelines.**

The aim of the department is to provide a curriculum leading to teacher certification and professional competence. In order that the student may pursue this program in the best possible sequence and meet the Pennsylvania certification requirements, it is important that he or she have a personal conference with an advisor in the Department of Education early in the first semester; otherwise, there may be some difficulty in completing either certification program within eight semesters. Students wishing to take courses beyond EDU 101 Foundations of Education must apply for provisional admission to the teacher certification program.

PROGRAM ADMISSION

In order to be formally admitted and continue in the teacher certification program applicants must have a 3.000 cumulative grade point average. Formal admission to the teacher certification program also requires the completion of 12 course units, two of which must be college level mathematics courses and one of which must be either an American or British literature course. As well, the student must pass the first three pre-professional tests on the state required PRAXIS exam by the end of the sophomore year. Prior to formal admission to the teacher certification program, a student may be provisionally admitted as early as the first year. In addition to the overall GPA of 3.000, admission to student teaching requires a 2.500 grade point average in the major* and a 2.750 grade point average in all education courses.

* *Students with a major in language must have a 3.000 grade point average in the major for admission to professional semester.*

PROGRAM REQUIREMENTS

Please note that most requirements for teacher certification are set by the Pennsylvania Department of Education and are subject to change.

Elementary Education Certification Program

The following are the requirements for elementary certification:

Cognate Courses:

- Two college level mathematics courses
- A biology course and a physical science course
- A fine arts course, THR 190 Foundations of the Creative Arts
- A literature course, either British or American
- An American history course
- PED 100 Foundations of Exercise Science & Wellness
- A geography course, GEO 101 World Geography
- A course with an economics perspective. The requirements for studies in economics can be met by completing courses in other disciplines which include this perspective. For example, a student can take an American history course with an economics perspective, an environmental studies course with an economics perspective, or a geography course with an economics perspective.
- A course with an environmental studies perspective. The requirement for environmental studies can be met by completing courses in other disciplines which include this perspective. For example, a student can take a biology course or physical science course with an environmental perspective or an economics or philosophy course with an environmental perspective.

Courses in Elementary Education (12 course units):

- EDU 101 Foundations of Education

EDU 102 or 103 Educational Psychology
EDU 200 Teaching & Learning
EDU 201 The Exceptional Learner
EDU 326 Literacy in the Primary Grades
EDU 327 or 328 Middle Grades Literacy & Social Studies Curriculum
EDU 355 The Mathematics Curriculum
EDU 356 Elementary Science Curriculum
EDU 410 Assessment & Evaluation
EDU 420 Studies in Professional Education
EDU 950 Student Teaching I
EDU 951 Student Teaching II

Note: This applies to Psychology majors only

Students who are accepted into the Elementary Education certification program may count EDU 201 The Exceptional Learner to satisfy one of the courses in the Advanced Course and Seminar requirement, and they may count EDU 102 or 103 Educational Psychology as an elective in the Psychology major. Admission to student teaching requires a 2.500 grade point average in the psychology major.

Secondary Education Certification Program

Cognate Courses:

Two college level mathematics courses
A literature course, either British or American

Courses in Secondary Education (9 course units):

EDU 101 Foundations of Education
EDU 102 or 103 Educational Psychology
EDU 200 Teaching & Learning
EDU 201 The Exceptional Learner
EDU 360 The Secondary School Curriculum
EDU 410 Assessment & Evaluation
EDU 420 Studies in Professional Education
EDU 950 Student Teaching I
EDU 951 Student Teaching II

Students enrolled in the teacher certification program will receive priority placement in courses that are part of the program. The department expects all pre-service teacher candidates to exhibit professional behavior in all education course and field settings. Students who fail to complete the required field work hours for any education course will be subject to a grade reduction. The department requires students to student teach through Muhlenberg College in order to be certified by Muhlenberg College. Additionally, the Department of Education may not accept for transfer education courses from other institutions which do not include an appropriate field work component.

Fees

A **non-refundable** fee of \$30 will be charged for each semester in which a student is enrolled in a course or courses requiring fieldwork. Students enrolling in EDU 950 Student Teaching I and EDU 951 Student Teaching II will pay a special fee of \$335. This \$335 fee is **non-refundable** and due when the student applies for student teaching in January of the junior year.

COURSES

101. Foundations of Education

A critical examination of education, how American education has been institutionalized, and how society's agenda is formulated and translated by schools. Historical, sociological and philosophical concepts will be used to understand conflicting educational policy aims of various societal groups. The purpose of the course is to develop one's potential for thinking critically and evaluatively about American education and its institutions in preparation for ethical educational leadership and citizenship.

Meets general academic requirement B.

102, 103. Educational Psychology

This course reflects knowledge derived from theory, research, and professional practice as it covers cognitive, social, and personal development and the psychology of teaching and learning. We will use our classroom as an "experiment" in methods of teaching, learning, and educating ourselves about the sociopolitical contexts for development and learning in American classrooms. Students are required to complete a minimum of 20 hours of fieldwork in a public school setting.

Prerequisite: EDU 101 Foundations of Education and preliminary admission to the teacher certification program or Psych 101 Introductory Psychology, or by permission of the instructor

Meets general academic requirement W when offered as 103.

200. Teaching & Learning

This course focuses on understanding the roles of research, theory, and structured observation in classroom teaching and on the acquisition of basic teaching skills, including the planning and implementation of instruction and the management of classroom activities. Students are introduced to a broad range of teaching methodologies and classroom management strategies. They use state and district standards to plan, teach, and revise lessons in their content areas and will design an instructional unit outline. Additionally, students will explore the impact of technology on teaching and learning. Students will participate in peer teaching and a minimum of 20 hours of fieldwork.

Prerequisite: EDU 101 Foundations of Education and EDU 102 or 103 Educational Psychology

201. The Exceptional Learner

This course is designed to broaden the pre-service teacher's knowledge and understanding of students with disabilities. The students will be introduced to exceptionalities, including health impairments, mental retardation, learning disabilities, ADHD, emotional disturbance, autism, sensory impairments, physical disabilities, and giftedness. These topics will be examined from the perspective of causation, diagnosis, cognitive and social-emotional characteristics, learning styles, and programming needs with a focus on meeting the exceptional learner's needs in the context of the regular classroom. Fieldwork required.

Prerequisite: EDU 101 Foundations of Education and EDU 102, 103 Educational Psychology or PSY 101 Introductory Psychology or admission to the teacher certification program or by permission of the instructor

Meets general academic requirement B and fulfills the second academic B requirement for students in the teacher education program.

326. Literacy in Primary Grades

This course provides an understanding of literacy development in elementary grades K-3. First phase of the course presents learning and language development theories and instructional frameworks that contextualize

literacy instruction, including constructivism, whole language, balanced literacy program, guided reading, language systems, oral language development, and emergent literacy perspective. Processes of early reading and writing, including phonemic awareness and phonics, decoding and fluency, comprehension, and developmental spelling, are presented during the second phase of the course. Introduction to children's literature, including award-winning books and authors, genres, and the role of literature in literacy instruction, is integrated throughout the course. Special attention is given to the Pennsylvania Academic Standards in Reading, Writing, Speaking, and Listening and their relationships to both national and local district standards and reading programs. Fieldwork is required.

Prerequisite: EDU 200 Teaching & Learning and formal admission to the Education Certification Program Meets general academic requirement W.

327, 328. Middle Grades Literacy & Social Studies Curriculum

This course presents integrated approaches to teaching literacy and social studies in the elementary grades. Emphasis is on literacy development in grades 3-6, particularly on construction of meaning during reading and writing processes. Topics of study range from reader response theories, reading comprehension, the conventions of language, assessment and evaluation, curriculum and standards, to various instructional approaches. Concurrently, social studies as an area of study in the elementary grades is presented. Theoretical and practical perspectives are included in the examination and development of curriculum and pedagogical strategies. The integrated nature of this course enables the student to apply and explore literacy issues in the context of social studies topics and concepts, specifically through the discussion of children's literature. Exploration of national, state, and local academic standards continue in both literacy and social studies. Fieldwork is required.

Prerequisite: EDU 326 Literacy in the Primary Grades and formal admission to the Education Certification Program

Meets general academic requirement W when offered as 328.

355. The Mathematics Curriculum

This course will analyze the content, pedagogy, and management of the mathematics curriculum in the elementary school. Emphasis will be placed on how children learn mathematics, problem solving, discourse, and standards-based instruction. Fieldwork will be required.

Prerequisite: EDU 200 Teaching & Learning and formal admission to the Education Certification Program

356. Elementary Science Curriculum

This course will enable the student to develop a professional practice as a science educator based on the best current knowledge about how children learn science, the nature of science, and state-of-the-art methods of science teaching. Emphasis will be placed on developing inquiry-oriented pedagogical strategies, creating curriculum, hands-on experiences, and using assessment in the service of instruction. Fieldwork will be required.

Prerequisite: EDU 200 Teaching & Learning and formal admission to the Education Certification Program

360 – 365. The Secondary School Curriculum

This course will focus on studies in teaching the secondary curriculum as appropriate to the following certification areas: English, foreign languages, mathematics, science, environmental studies, and social studies. In addition, studies in the reading and communication skills essential for effective content acquisition by secondary school students will be covered. Fieldwork is required.

Prerequisite: EDU 200 Teaching & Learning and formal admission to the Education Certification Program

370. Urban Ethnography

The focus of this interdisciplinary course is on the relevance of the qualitative research method of Ethnography for exploring issues pertaining to youth in urban contexts. We will explore the complex relationships among schooling, social structure, and culture through research projects conducted by course participants. Students will be taught methods of data collection and analysis, including how to examine research subjectivities, "gain entry" in the field, manage data, frame assertions, seek confirming and disconfirming evidence, consider diverse audiences for reporting, and try out various narrative styles and voices in their interpretive writing. This course has been relevant to students interested in youth and urban issues across a variety of majors, including Art, Theatre, Dance, Media and Communication, English, Sociology, Psychology, Spanish, and American Studies.

410. Assessment & Evaluation

This course is designed to give the prospective elementary/secondary teacher an overview of assessment/evaluation issues, techniques, and practices. Students will be examining topics of standardized testing, teacher made tests, alternative/authentic assessment techniques, grading practices, and parent conferences. Also, students will be introduced to ways in which technology can be integrated into the assessment and evaluation process. Throughout the course, students will be encouraged to think critically about the issues surrounding assessment, within the context of educational practice and political reality.

Prerequisite: admission to professional semester

420. Studies in Professional Education

As part of the professional semester program, this course will provide studies and experiences in issues connected with teacher professionalism, structure of the educational system, school law, professional ethics, and school/community relations.

Prerequisite: admission to professional semester

550 & 551. Practicum in Education I & II

These courses are designed to provide an in-depth study of contemporary educational issues in public schools through a full-time classroom experience. The topics of study will include curriculum, standards, planning, assessment, and classroom management. These courses do not meet the requirements for PA certification. The courses are open only to students with permission from the Education Department.

Prerequisites: EDU 200 Teaching & Learning and 201 The Exceptional Learner

950 & 951 Student Teaching I & II

Student teaching is the core component of the professional semester. This experience will provide the preservice teacher with the opportunity to apply the knowledge and skills gained in his/her academic preparation to actual classroom situations. The student teacher will receive meaningful feedback and guidance from the cooperating teacher and college supervisor with respect to planning and preparation, classroom management, discipline, and lesson implementation. This semester consists of two full-time teaching experiences in grade levels appropriate to the area of certification. Students will attend daily seminars prior to student teaching and weekly seminars during student teaching. Additionally, college supervisors will observe student teachers in the field on a weekly basis. Students must enroll for both EDU 950: Student Teaching I and EDU 951: Student Teaching II during the professional semester.

Prerequisite: admission to the professional semester

ENGLISH (ENG), WRITING (ENW)

Department Chair: Professor Grant Scott

Professors: Bloom, Cartelli, Lawlor, Rosenwasser, Stephen

Associate Professors: Coppa, Gold, Marsh, Miller

Lecturer: Byala

The major program in English stresses writing skills and the critical analysis of literary works. The approach is largely—but not exclusively—historical, so that majors will come to understand the ways in which language works to construct as well as reflect cultures. Though the program primarily focuses on American and British works and writers, majors will have opportunities to study other literatures and will be encouraged to do so. The compositional and analytic skills required to complete this major, along with the historical and cultural perspectives that literary study fosters, will help prepare students for a wide range of careers. Careers that English majors characteristically pursue include law, teaching, journalism and publishing, sales and

marketing, advertising and public relations, management and administration, public service, religion, and research. The program in English is also designed to serve students in their efforts to become attentive and articulate citizens.

General Academic Requirements

Students specifically seeking literature courses designed for the non-major may wish to limit their choice to the following: ENG 213 British Writers; ENG 215 American Writers; ENG 220 World Literature I; ENG 222 World Literature II; ENG 233 or 234 Women Writers; ENG 241 The Nature of Narrative; ENG 245 or 246 Poetry & the Imaginative Process; ENG 255 Literature & Film; ENG 260 Literature & the Environment; ENG 265 or 266 Literature & Science; ENG 267 or 268 Literature & Sexuality; and ENG 269 or 270 Literature & Mass Media.

SPECIAL PROGRAMS

Honors Program

The honors program in English and Writing effectively means undertaking an Honors Thesis. The English faculty has designed the program for English majors who have consistently demonstrated their talent for and commitment to literary studies and especially to rigorous critical inquiry. Students interested in pursuing graduate studies in literature and writing will find the experience particularly useful. Junior majors interested in the honors program should direct their questions to Dr. Alec Marsh or their advisor. The requirements for a critical honors thesis and a creative honors project in poetry, prose, or non-fiction are somewhat different; please see below.

Honors Program Requirements:

A minimum of 11 courses in the Department of English.

1. Two semesters of independent study in the senior year devoted to the development and completion of the honors thesis. The honors student will work under the direction of a faculty member. Two or three faculty members, one of whom may come from outside the department, will serve as readers. These readers will be consulted regularly on the project throughout the senior year.
2. For scheduling reasons, a preliminary proposal for an independent study leading to an honors thesis endorsed by the prospective director should be submitted to the Director of the Honors Program by May 1 of the junior year.
3. The submission to the Honors Committee of a detailed plan or prospectus with bibliography by November 15 of the senior year. At that time, in consultation with the director of the independent study, a decision will be made by the Honor committee to accept the Honors project or to terminate it at the end of the fall term in which case the Honors Independent Study will simply become an ordinary

independent study with no further expectations. If the proposal is approved, the student may proceed.

4. An oral presentation to fellow English majors and English department faculty on the subject of the honors thesis by late March or early April.
5. The completion of a thesis (typically about 70 pages) a copy of which must be submitted to each of the student's readers by May 1 of the senior year.
6. A concluding conversation with the student's thesis committee (director and readers) to discuss and evaluate the student's work.

The thesis committee will recommend to the Department Chair the degree of honors to be awarded (none, honors, high, or highest).

Teacher Certification

Students seeking certification for the teaching of English in secondary schools are required to take the following nine courses in fulfillment of their English major. A student who chooses ENG 336 or 337 Nationalism, Romanticism, & American Literature or ENG 338 or 339 City, Frontier, & Empire in American Literature to fulfill both the nineteenth century and American literature requirement may enroll for any other course numbered 300 or greater to fulfill the nine course minimum.

ENG 275 Theory & Methods of English Studies

One elective in American literature drawn from: ENG 215, ENG 336 or 337, ENG 338 or 339, ENG 349 or 350, ENG 357, ENG 358 or 359; ENG 360 or 361.

One course in 19th century literature drawn from: ENG 329 or 330, ENG 331 or 333, ENG 334 or 335, ENG 336 or 337, ENG 338 or 339.

ENW 203 Nonfiction Writing

ENG 319 or 321 Shakespeare I or II

One additional pre-1800 course drawn from: ENG 313 or 314, ENG 315 or 316, ENG 317 or 318, ENG 323 or 324, ENG 325 or 326, ENG 327.

One course in a literature other than British or American: ENG 220, ENG 222, ENG 340 or 341, ENG 343 or 344, ENG 375 or 376, or a literature course offered by the Department of Languages, Literatures, and Cultures.

ENG 311 or 312 The English Language

ENG 500-549 Senior Seminar in English

PROGRAM REQUIREMENTS

Major Requirements

English majors must complete a minimum of nine courses in the department. ENG 275 Theory & Methods of English Studies should be completed early in the major sequence.

Required Courses:

ENG 275 Theory & Methods of English Studies

At least *two* courses treating works written prior to 1800 (only one of which can be ENG 319 Shakespeare I or ENG 321 Shakespeare II)

ENG 313 or 314 Medieval Literature

ENG 315 or 316 The Renaissance Imagination

ENG 317 or 318 Lyric Traditions: Beginnings to 1800

ENG 319 Shakespeare I

ENG 321 Shakespeare II

ENG 323 or 324 Renaissance Plays in Process

ENG 325 or 326 Milton & the Age of Revolution

ENG 327 The Eighteenth Century

At least *one* course in nineteenth century literature

ENG 329 or 330 Nineteenth Century British Fiction

ENG 331 or 333 English Romanticism

ENG 334 or 335 Victorian Literature & Culture

ENG 336 or 337 Nationalism, Romanticism, & American Literature

ENG 338 or 339 City, Frontier, & Empire in American Literature

Four electives (only *one* course numbered between 200 and 299; only *one* course in creative or nonfiction writing)

ENG 500-549 Senior Seminar in English

Each major must maintain a 2.000 grade point average in English courses to remain a major in the department. A 3.000 grade point average in the major is expected of those who desire unconditional recommendations for graduate schools or for teaching positions. Students who are planning to attend graduate school in English would do well to enroll several courses in excess of the minimum course requirement for majors and should seek the advice of their faculty advisor as early in their undergraduate career as possible.

Minor Requirements

English minors must complete a minimum of five courses in the department.

Required Courses:

ENG 275 Theory & Methods of English Studies

At least *one* course treating works written prior to 1800

At least *one* course in nineteenth century literature

Two electives (only *one* course numbered between 200 and 299 and *one* course in creative or nonfiction writing are allowable within 5 course minimum)

Creative Writing Minor (6 courses)

Introductory Courses in Writing: *Students must complete at least two courses, each one in a different genre:*

Nonfiction

ENW 203: Nonfiction Writing (formerly ENG 203)

Drama

ENW 207: Dramatic Writing

Fiction

ENW 201: Poetry & Fiction Writing (formerly ENG 201)

ENG 241: Nature of Narrative

Poetry

ENW 201: Poetry & Fiction Writing (formerly ENG 201)

ENG 246: Poetry & the Imaginative Process

Note: Other 200-level Special Topics writing courses might also substitute for the Introductory Courses in Writing requirement.

Advanced Writing Courses: *Students must complete at least two courses from the following list. Students must apply to a departmental committee to be accepted for participation in tutorials, which are optional.*

ENW 303: Nonfiction Workshop (formerly ENG 303)

ENW 305: Fiction Workshop (formerly ENG 305)

ENW 307: Playwriting Workshop (formerly ENG 307)

ENW 309: Poetry Workshop (formerly ENG 309)

ENW 367: Screenwriting Workshop

COM 322: Writing for the Media

ENW 397: Magazine Writing & Editing (formerly ENG 450)

ENW 903-917: Tutorials in Fiction, Poetry, Playwriting, etc.

ENW 970: Internship in Writing (formerly ENG 970)

Additional Course: *Students must complete one additional course of their choice from Introductory or Advanced writing courses listed above.*

Literature: *Students must complete at least one 300-level or higher literature course offered in the English or Languages, Literatures, and Cultures Departments.*

ENGLISH COURSES (ENG)

FIRST COURSE FOR MAJORS AND MINORS

275. Theory & Methods of English Studies

An introduction to the practices, assumptions, and goals that differentiate English Studies from other approaches to texts, **intended exclusively as a foundations course for current and prospective English majors and minors** and requiring close readings of works in various genres in a pursuit of working definitions of literature and literariness. Questions addressed include: How do we distinguish literary work

from other kinds of writing? What distinguishes literary complexity over simplicity? How do literary and critical practices evolve?

Prerequisite: Current and Prospective English majors and minors only

Meets general academic requirement L and W.

GENERAL LITERATURE

213. British Writers

A concentrated survey of the work of some of the most influential British writers and of the development of British literary traditions; intended to help non-majors become close and informed readers of literature. Focus will vary from semester to semester.

Meets general academic requirement L.

215. American Writers

A concentrated survey of the work of some of the most influential American writers and of the development of American literary traditions; intended to help non-majors become close and informed readers of literature. Focus will vary from semester to semester.

Meets general academic requirement L.

220. World Literature I

A chronological survey of selected literary works of international stature and significance with emphasis on the emergence and development of major literary forms.

Meets general academic requirement L.

222. World Literature II

A chronological survey of selected literary works of international stature and significance from the sixteenth century to the present.

Meets general academic requirement L.

233, 234. Women Writers

An introduction to women's writing in English and feminist literary perspectives that highlights the circumstances differentiating women's and men's writing and the recovery of once-neglected women's writing in relation to more familiar work by writers such as Austen, the Brontes, Dickinson, Cather, and Woolf.

Meets general academic requirement L (and W which applies to 234 only).

FORMS AND GENRES

240, 241. The Nature of Narrative

This course will explore the forms and functions of primarily prose narratives with particular attention to structure, point of view, and narrative conventions of time, space, plot, character, and "realism". Different versions of the course will vary in focus and emphasis: some may survey a variety of forms and genres (short story, novel, memoir, autobiography) while others may concentrate on one or two of these. Alternate years.

Meets general academic requirement L (and W which applies to 241 only).

245, 246. Poetry & the Imaginative Process

What is poetry? How is it made or constructed? Is it the product of sudden inspiration or of something more mundane? This course will address such questions by examining the work of poets who, in addition to their poems, have left behind letters, journals, and notebooks that allow us to reconstruct the processes through which their poems develop and progress to completion. Students will be encouraged to write and chart the development of their own poems in process. Alternate years.

Meets general academic requirement L (and W which applies to 246 only).

TEXTS AND CONTEXTS

255. Literature & Film

This course examines the relationship between novels and plays and their film-adaptations, concentrating on the different ways we read and interpret these narrative forms. The course will attend closely to the variety of decisions that inform the translation of literary works into a different medium with different conventions for a different audience. Emphases and subject matter will change.

Meets general academic requirement L.

260. Literature & the Environment

An examination of complex relationships between the various meanings of what we call “nature” and the representations of such concepts in literary writing and other kinds of texts that raise environmental questions. A field work component will require students to survey nearby landscapes and to “read” their historical transformations.

Meets general academic requirement L.

265, 266. Literature & Science

Considers the mutual influence of science and literature with emphasis on the development of modes of thought across disciplinary lines. The specific focus of each term will be defined by scientific, historical, and/or generic concerns. Some possible emphases include medicine, modern physics, evolution, gender-construction, and technology.

Meets general academic requirement L (and W which applies to 266 only).

267, 268. Literature & Sexuality

An exploration of the way literature reflects and shapes understandings, attitudes toward, and representations of sexual identities and practices.

Meets general academic requirement L (and W which applies to 268 only).

269, 270. Literature & Mass Media

A study of the relationship between literary writing, which represents a small proportion of all the writing we routinely encounter, and the mass media (scripted TV and movie narratives, news reports, advertising, memos, etc.) and of the implications of this relationship for both the producers (writers) and consumers (readers) of literature. Alternate years.

Meets general academic requirement L (and W which applies to 270 only).

ADVANCED

311, 312. The English Language

This course will provide students with a general understanding of the nature and function of language in American society, with special emphasis on language instruction in the secondary school classroom. It will be structured as a seminar that features group discussion of assigned readings.

Meets general academic requirement W when offered as 312.

STUDIES IN MEDIEVAL AND EARLY MODERN LITERATURES

313, 314. Medieval Literature

A broad-based study of the literature of the European Middle Ages. Readings will include selections from the romances of Chretien de Troyes, the *lais* of Marie de France, Dante’s *Inferno*, Boccaccio’s *Decameron*, *Sir Gawain and the Green Knight*, one of Chaucer’s dream-visions, and a representative sampling of his *Canterbury Tales*. Alternate years.

Meets general academic requirement L (and W which applies to 314 only).

315, 316. The Renaissance Imagination

A study of the writing and other popular art forms of Renaissance England, with attention to the newly articulated stress on self and the emergence of Tudor England as a world power. Alternate years.

Meets general academic requirement L (and W which applies to 316 only).

317, 318. Lyric Traditions: Beginnings to 1800

This course will trace the evolution of lyric forms, subject, and attitudes from their medieval beginnings to the late eighteenth century. We will examine the social and historical origins of particular forms (the sonnet, for example) and the resurgence of earlier lyric traditions in the poetry of nineteenth and twentieth-century poets like Emily Dickinson and Elizabeth Bishop.

Meets general academic requirement L (and W which applies to 318 only).

319. Shakespeare I

A study of Shakespeare's work in different genres drawn from the full range of his career as poet and playwright and, occasionally, of one or two plays by his contemporaries. Plays are treated both as literary texts requiring close reading and as scripts designed for theatrical performance in public playhouses of Elizabethan and Jacobean England. Attention paid throughout to questions of gender and sexuality, authority in family and state, and drama as social expression.

Meets general academic requirement L.

321. Shakespeare II

A study of the reproduction of Shakespeare's plays on film and television and of the appropriation of Shakespeare's plays by modern playwrights, concentrating on the most adventurous recent work in these genres. Particular emphasis throughout on strategies of adaptation, substitution, and transformation.

Meets general academic requirement L.

323, 324. Renaissance Plays in Process

A topically or historically oriented, performance-centered study of the cultural, social, political, and economic conditions that informed the composition, structure, and production of no more than two plays of the Elizabethan and Jacobean periods, requiring hands-on research on such subjects as gender, marriage, and sexuality; crime and punishment; licensing and censorship; and legal and social status.

Meets general academic requirement L (and W which applies to 324 only).

325, 326. Milton & The Age of Revolution

A study of Milton's major works, especially *Paradise Lost*, and his impact on later poets, most notably the visionary and revolutionary strain in English Romanticism. Other readings will focus on contexts for understanding this impact, such as the Bible, epic traditions, civil war and sectarian strife in seventeenth-century England, colonialism, gender, and psychology.

Meets general academic requirement L (and W which applies to 326 only).

327. The Eighteenth Century

A study of the English theatrical practices from the Stuart Restoration in 1660 through the Licensing Act of 1737, emphasizing social history and encompassing literary and performance analysis of plays, acting, theatre architecture, audience, management practices, and government regulatory policies. Likely topics include the relationship between theatre and politics, the shift from aristocratic to bourgeois cultural forms, constructions of nationality and sexuality, and England's emergence as a superpower.

Meets general academic requirement W.

STUDIES IN NINETEENTH CENTURY LITERATURES

329, 330. Nineteenth Century British Fiction

A study of some of the major works of the great age of the novel. From Jane Austen at the turn of the century to Thomas Hardy at its end, English novelists repeatedly explore such issues as the growth out of childhood fantasy into sobering adulthood, the difficulties bred of class differences, the impact of industrialism on personal and social development, and the plight of women trying to find a place in the world. Different versions of the course may center on any one of these issues.

Meets general academic requirement L (and W which applies to 330 only).

331, 333. English Romanticism

Explores the English Romantic movement as it develops in the work of William and Dorothy Wordsworth, Coleridge, Blake, Keats, De Quincey, Byron, and the Shelleys. Readings include “The Marriage of Heaven & Hell,” “The Rime of the Ancient Mariner,” *Frankenstein*, and *Confessions of an English Opium Eater*. Attention will also be paid to the relationship between the visual and verbal arts in poets like Blake and Keats.

Meets general academic requirement L (and W which applies to 333 only).

334, 335. Victorian Literature & Culture

A study of the impact in nineteenth-century English culture of the Industrial Revolution, the waning of religion, and changes in gender roles as constructed and evoked by novels, essays, and poems by such writers as Dickens, Stoker, Wilde, Ruskin, Carlyle, Arnold, Tennyson, The Brownings, the Rosettis, and other Pre-Raphaelites, along with the painting and decorative arts produced by members of the Pre-Raphaelites movement.

Meets general academic requirement L (and W which applies to 335 only).

336, 337. Nationalism, Romanticism, & American Literature

A study of the first flourishing of American literature in the generation preceding the Civil War, focusing on such influential figures as Emerson, Hawthorne, Melville, Stowe, Thoreau, Poe, and Whitman.

Meets general academic requirement L (and W which applies to 337 only).

338, 339. City, Frontier, & Empire in American Literature

A study of literature produced between the Civil War and the turn of the century. Discussions focus on realism, naturalism, and romanticism, as well as on the relation of these movements to a variety of cultural developments, including reconstruction, the growth of cities and of corporate monopolies, the emergence of women, the closing of the frontier, and nascent imperialism.

Meets general academic requirement L (and W which applies to 339 only).

STUDIES IN MODERN, ETHNIC, AND CONTEMPORARY LITERATURES

208, 209. African-American Drama

A study of nineteenth- and twentieth-century plays addressing the cultural impact of the African Diaspora. In addition to plays, the syllabus incorporates theoretical and historical writing exploring Africanisms in the work of writers like Suzan-Lori Parks and August Wilson and the efforts of African American playwrights to remember often unrecorded histories.

Meets general academic requirements D or L (and W which applies to 209 only).

340, 341. European Novel in Translation

A study in the development of the modern European novel that ranges from the groundbreaking work of such nineteenth-century writers as Balzac, Flaubert, and Dostoyevsky to the later formal experiments of twentieth-century authors like Kafka, Duras, and Kundera. Texts in question are assembled around the unifying focus of authority and desire. Alternate years.

Meets general academic requirement L (and W which applies to 341 only).

343, 344. Irish Literature

An exploration of representative works in Irish literature, by Catholic and Protestant, nationalist and Anglo-Irish, and canonical and non-canonical writers. Selection of texts will vary from semester to semester, sometimes sampling works in a single genre, sometimes concentrating in a single genre. Topics will include the impact of British colonialism, nationalism and its appropriation of Irish myth, representations of gender, and colliding definitions of “Irishness.”

Meets general academic requirement L (and W which applies to 344 only).

347, 348. Modern British Fiction A study of British modernist fiction and formal experimentation from 1900 to 1950; stream of consciousness, open form, mythic plot patterns, poetic prose, alienation, and self-conscious and fragmented narration.

Meets general academic requirement L (and W which applies to 348 only).

349, 350. Modern American Fiction

A study of representative fiction published in the United States between the World Wars.
Meets general academic requirement L (and W which applies to 350 only).

352, 353. Modern Poetry

A study of English-language poetry published between 1900-1945, including works of Eliot, Frost, Pound, Stevens, Hughes, Williams, H.D., and Auden and of the social and political contexts of this work.
Meets general academic requirement L (and W which applies to 353 only).

354. Modern Drama

This course will examine how Modern Drama emerged to challenge the dominant genres and styles of the Victorian theatre. We will examine the development of modern dramatic practice in writers such as Ibsen, Strindberg, Shaw, Wilde, and Chekhov, and its variegated developments in the plays of O'Neill, Glaspell, Miller, Brecht, and Beckett.
Meets general academic requirement L.

357. Native American Literature

A study of Native American fictional and autobiographical narratives since the late nineteenth century from five or six different nations and of the earlier, traditional oral tales and songs that shaped these narratives. Course focuses on language and structure and religious and philosophical positions that inform these texts.
Meets general academic requirement D or L and W.

358, 359. African American Literature

A study of works by African American writers from colonial times to the present, ranging from early slave narratives to the poetry of Amiri Baraka and the fiction of Ralph Ellison and Toni Morrison.
Meets general academic requirement D or L (and W which applies to 359 only).

360, 361. Jewish American Writing

A study of the narratives, drama, and poetry produced by Jewish writers whose work has been shaped by the immigrant influx of the late nineteenth century and an inquiry into questions this writing raises about ethnicity, identity, "assimilation," and the emergence of a distinctive urban Jewish sensibility and style during the twentieth century. Alternate years.
Meets general academic requirement L (and W which applies to 361 only).

362, 363. Contemporary Fiction

A study of representative late twentieth century English-language novels and stories.
Meets general academic requirement L (and W which applies to 363 only).

365, 366. Contemporary Poetry

A study of representative English language poetry published after 1945 in books and periodicals and performed at readings, with particular attention to poetics and critical theory.
Meets general academic requirement L (and W which applies to 366 only).

369. Postwar Drama

An exploration of the ways in which theatre and representational practice were challenged and changed by the Second World War and its political, cultural, and social aftermath. We will examine British, American, and German plays by writers such as Osborne, Pinter, Weiss, Handke, Miller, Bond, and Griffiths.
Meets general academic requirement L.

371. Living Writers

This team-taught course focuses on the work of six or seven well-known writers (of fiction, nonfiction, or poetry) who visit Muhlenberg to discuss their work, meet with students, and give a public reading. The class meets as one group on a weekly basis, either for a lecture or for a presentation by one of the visiting writers, and again in sections for discussions of each writer's work. Writers who have participated in this course include Peter Carey, Philip Levine, Andrea Barrett, Robert Pinsky, Carolyn Forché, Paul Muldoon,

Frederick Busch, David Bradley, Alice Fulton, Jay Wright, and Francine Prose. Fulfills elective requirement of writing concentration. Offered in the fall semester of alternating years.
Meets general academic requirement L.

373, 374. The Literary Marketplace

A study of tensions between the reality of literature as a business and popular views of literary writing as an “inspired” individual activity, of writers as lone geniuses, “prophets”, “priests”, etc. and an examination of the implications of writers’ immersion in, dependence on, and resistance to the commercial, collaborative, and entrepreneurial conditions of literary production. Fulfills elective requirement of writing concentration.
Meets general academic requirement L (and W which applies to 374 only).

375, 376. Postcolonial Literature

A study of English-language literatures in former British colonies—in Africa, the Caribbean, Australia, and the Indian subcontinent and its Diaspora—focusing on the work of such writers as Walcott, Gordimer, Naipaul, Rushdie, and Soyinka, variously taught as a survey of these literatures or as a more concentrated study of the literature of one or two nations or regions. Alternate years.
Meets general academic requirement D or L (and W which applies to 376 only).

377. Contemporary Drama & Performance Art

A survey of contemporary theatre practice which includes not only the study of new literary plays by writers such as Stoppard, Kushner, Wolfe, and Mann, but also of other kinds of performances such as avant-garde theatre, performance art, the new vaudeville, and the one-person show. Artists to be studied may include Anna Devere Smith, John Leguizamo, Pina Bausch, The Theatre of the Ridiculous, and The Wooster Group.
Meets general academic requirement A.

TUTORIALS AND SEMINARS

Admission to these courses requires prior arrangement, instructor permission, or advanced class standing.

415. Writing Theory

A required course for students who plan on serving as Writing Center tutors and Writing Assistants. The course will focus (1) on writing, reading, and evaluating analytic and literary essays and (2) on writing theory and how various theories translate into classroom and one-on-one tutorial practice. In addition, students will spend an hour a week in the Writing Center, first observing tutorial sessions, then co-tutoring, and finally tutoring students one-on-one.
Prerequisite: instructor permission
Meets general academic requirement W.

450-459. Topics in Writing & Publishing

500-549. Seminar in English

English Department seminars are offered once or twice a semester by different members of the department on a rotating basis. They are required of all senior English majors and may also be taken by juniors with instructor permission.
Meets general academic requirement W.

950. Directed Reading, Seminal Texts

Primarily an experience in private reading and research, this course will allow students who plan on taking more than the minimum number of required courses in the major to immerse themselves in a seminal work of literature that is not ordinarily taught to completion in the regular curriculum, e.g., *The Divine Comedy*, *The Faerie Queene*, *Ulysses*, etc. Students will also be expected to acquaint themselves with the source-texts that have made this work possible as well as with the wide body of secondary sources that have developed in response to it. In order to receive credit for this course, students will have to negotiate and fully satisfy the conditions of a work-contract with a member of the English faculty. Open only to juniors

and seniors who have demonstrated the ability to do independent work and have secured the permission of a sponsoring instructor. Pass-fail only.

WRITING COURSES (ENW)

INTRODUCTORY WRITING COURSES

201. Poetry & Fiction Writing

An introductory course in the craft of short story and poetry writing. This course will focus on issues of craft and form: the sentence, the line, character, voice, point-of-view, imagery, action, conflict, and resolution. Students will read both published stories and poems and each other's work. The emphasis of the course, however, will be on student writing and will lead to a final portfolio.

Meets general academic requirement A.

203. Nonfiction Writing

This course begins with a review of the analytical essay. The majority of the course, however, focuses on the literary essay. Students will spend an equal amount of time writing and reading essays and class discussions will center on craft and rhetorical issues, such as syntax, tone, and argumentation.

Meets general academic requirement W.

207. Dramatic Writing

Students will learn the rudiments of dramatic writing through lecture, readings, and weekly assignments dealing with structure, characterizations, dialogue, and other areas of the playwright's art. Students' works will be shared and critiqued by the class, operating as a playwrights group. Each student will complete at least a ten-minute play and a 30-minute one-act play during the semester.

ADVANCED WRITING COURSES

303. Nonfiction Workshop

An intensive course in the craft of the essay. Writers will comment on each other's work in a workshop setting. Issues of linguistic theory, the tradition of the essay from Montaigne to the present, and the conventions of journalism will inform our discussions. We will focus on the memoir, the review, travel essay, the prose meditation, and the literary essay. The course will culminate in a public reading and submission of a portfolio.

Prerequisite: ENW 203 Nonfiction Writing

Meets general academic requirement W.

305. Fiction Workshop

An intensive course in the craft of the short story. Fiction writers will comment on each other's work in a workshop setting. Issues of linguistic theory, the literary tradition, and aesthetics will inform our discussions. The course will culminate in a public reading and submission of a portfolio.

Prerequisite: ENW 201 Poetry & Fiction Writing or ENG 241 The Nature of Narrative

307. Playwriting Workshop

An intensive course in the craft of playwriting in which writers comment on each other's work, focusing on the elements and structure of a play (character, action, spectacle, diction, "music", thought), dramatic forms and conventions (monologue, farce, melodrama, comedy, tragedy), selected published plays, and attending theatrical performances all culminating in staged readings of selected student work and submission of a portfolio.

Prerequisite: ENW 207 Dramatic Writing

Meets general academic requirement A.

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309. Poetry Workshop

An intensive course in the craft of poetry. Poets will comment on each other's work in a workshop setting. The problem of poetic form and its relation to the tradition and the issue of the self and self expression will be explored in terms of linguistic theory, poetic tradition, and poetics. The course will culminate in a portfolio submission.

Prerequisite: ENW 201 Poetry & Fiction Writing or ENG 246 Poetry & the Imaginative Process

367. Screenwriting Workshop

Examination of screenwriting fundamentals: story structure (theme and plot), character, dialogue, scene description and development, and script formats. Students will prepare character profiles, treatments, and at least one screenplay.

Meets general academic requirement A.

397. Magazine Writing & Editing

An introduction to the rudiments of preparing-researching drafting, editing, and submitting-articles for magazine publication.

TUTORIALS

903. Nonfiction Tutorial

905. Fiction Tutorial

907. Playwriting Tutorial

909. Poetry Tutorial

ENVIRONMENTAL SCIENCE (ESC)

Director: Associate Professor Kelsey

Professors: Herrick, Klem, Lawlor, Niesenbaum, Shive, Sistare, Wilson

Associate Professors: Borick, Gambino, Lewis

Assistant Professor: Iyengar

A major in environmental science provides students with many opportunities in industry, government, and academia. For example, graduates are well prepared for careers in environmental consulting, environmental regulation, advocacy, or education. Students can also pursue graduate studies in a wide range of fields, including environmental science, ecology, oceanography, forestry, law, medicine, and toxicology. A program with the School of Forestry and Environmental Studies at Duke University is available (see Cooperative Programs for details).

Students are encouraged to obtain internship experience in specialized fields of Environmental Science and/or participate in an environmentally oriented study abroad program during their junior year. Recently, students have served with local educational institutions, nonprofit organizations, state and federal government, and local industries. Others have spent time in Australia, Ecuador, Costa Rica, Canada, and other countries.

SPECIAL PROGRAMS

Teacher Certification in Environmental Education

Students seeking certification for the teaching of environmental education must take BIO 260 Field Botany & Plant Ecology, BIO 270 Ecology, and BIO 465 Conservation Biology within the elective science courses. Students must also complete the following education courses. Contact the Director of Environmental Science for details.

EDU 101 Foundations of Education
EDU 102 or 103 Educational Psychology
EDU 200 Teaching and Learning
EDU 201 The Exceptional Learner
EDU 362 The Secondary School Curriculum: Science

Honors Program

Students approved by the Environmental Science Honors Committee may register for honors work which requires completing a research project, presenting results orally, and writing a formal scientific report. Based on student performance as judged by the quality of the honors work and by maintaining at least a 3.500 grade point average in all environmental science and environmental studies courses, environmental science faculty will determine if honors will be granted.

MAJOR REQUIREMENTS

To be retained as a major, a student must maintain a 2.000 grade point average for all biology, chemistry, physics, mathematics, environmental science, and environmental studies courses attempted.

A major in Environmental Science must complete 15 courses as outlined below.

Required Science Courses

BIO 150 Principles of Biology I
BIO 151 Principles of Biology II
CHM 103 General Chemistry I
CHM 104 General Chemistry II
MTH 121 Calculus I
MTH 144 Introduction to Statistics **OR**
MTH 104 Statistical Methods
ESC 113 Environmental Science I
ESC 114 Environmental Science II
ESC 201 Environmental Geology
ESC 310 Environmental Chemistry **OR**
ESC 312 Toxicology

Elective Science Courses (choose at least 3):

BIO 255 Ornithology **OR**
BIO 272 Field Marine Biology **OR**
BIO 242 Entomology
BIO 270 Ecology **OR**
BIO 260 Field Botany & Plant Ecology
BIO 275-279 Investigations in Field Biology (only 1 can be taken for environmental science credit)
BIO 460 Physiological & Behavioral Ecology **OR**
BIO 465 Conservation Biology **OR**
BIO 262 Cultural & Economic Botany
CHM 201 Organic Chemistry I
CHM 202 Organic Chemistry II
CHM 311 Analytical Chemistry
ESC 310 Environmental Chemistry (if not taken as required course)
ESC 312 Toxicology (if not taken as required course)
PHY 121 General Physics I
PHY 122 General Physics II
PHY 250 Simulating Science
Special Topics in Environmental Science
Other science courses as approved.

Elective Environmental Studies Courses (choose at least 1):

COM 336 or 337 Environmental Communication
ECN 245 or 246 Environmental Economics
EST 350 Environmental & Cultural Conservation in Latin America
HST 341 or 342 Environmental History of the United States
PHL 246 Environmental Philosophy
PSC 216 or 217 Environmental Politics & Policymaking
PSC 330 or 331 Comparative & International Environmental Policies
SOC 320 Environmental Sociology
Other courses as approved.

COURSES

111. Topics in Environmental Science

Environmental science is an interdisciplinary subject area that draws on biology, chemistry, geology, and ecology to study the earth's natural systems. Students learn how science is conducted and study the earth's natural environments, interactions of organisms with each other as well as their physical surroundings, and the sources and effects of environmental stress. Three hours of lecture/discussion each week.

Meets general academic requirement S.

113. Environmental Science I

This is an introductory environmental science course that investigates the functioning of earth's natural systems. Topics include the cycling and flow of water, energy, and nutrients, biodiversity, the basic principles of ecology, and the interrelationships between organisms and their environments. The causes and effects of, as well as possible solutions to, several environmental problems are covered as well. For example, human population growth, agriculture, and energy utilization are discussed in detail. Laboratory exercises and field trips teach students to use basic techniques to collect and analyze ecological and environmental

data and reinforce topics discussed in the lecture. Three hours of lecture/discussion and three hours of laboratory each week.

Meets general academic requirement S.

114. Environmental Science II

This is a continuation of ESC 113. Students study a number of human activities that can alter natural ecosystems and adversely affect human health. Topics include waste management, resource exploitation, and the behavior of pollutants in soil, air, and water. The science of controversial political issues such as global climate change, ozone depletion, and acid rain is explored and debated. In addition, the basic principles of human and environmental toxicology, risk assessment, and environmental impact analysis are covered. Laboratory exercises and field trips reinforce topics discussed in the lecture. Three hours of lecture and three hours of laboratory per week.

Prerequisite: ESC 113 Environmental Science I

Meets general academic requirement S.

201. Environmental Geology

Organisms are inextricably bound to their physical environments. An understanding of the interactions between the earth's geology and biology is therefore fundamental to a study of environmental science. This course examines earth's physical environments as they relate to environmental science. Topics will include the basic principles of geology, natural hazards such as volcanoes, earthquakes, mass wasting, and flooding, and the global hydrologic cycle. Global water resources will be examined, with an emphasis placed on groundwater supply, movement, and pollution. Three hours of lecture/discussion and three hours of laboratory per week. Offered alternate years (spring).

Prerequisite: any 100-level science course or permission of the instructor

Meets general academic requirement W.

310. Environmental Chemistry

The behavior of chemical pollutants in earth's natural systems is critical to a study of environmental science. This course will examine the chemistry of soil, air, and water, the interactions and cycles of elements among them, and the pollutants that can adversely affect these important resources. Topics will include an overview of the physical chemistry of soils, reactions and fates of pollutants in soil, reactions and movement of pollutants in water, wastewater treatment, and chemical reactions in the atmosphere, including the mechanisms of smog production, ozone depletion, and global warming. The chemistry of power generation involving fossil fuels, radioactive isotopes, solar energy, fuel cells, and other resources will also be considered. Three hours of lecture/discussion per week. Offered alternate years (fall).

Prerequisite: CHM 103 General Chemistry I and CHM 104 General Chemistry II or permission of the instructor

312. Toxicology

Toxicology is in broad terms the science of poisons. This course will provide an overview of the many branches of toxicology and examine the effects of poisons, or toxins, on individual organisms and ecosystems. Of specific interest will be the uptake (ingestion), metabolism, storage, and excretion of toxins and the adverse effects experienced by organisms exposed to toxic substances. The mechanisms by which substances induce cancer, birth defects, and nervous and immune system damage will be studied. Additionally, fundamental principles of toxicology such as dose-response and selective toxicity will be described. The sources, chemical properties, environmental fates, and regulation of toxins will be addressed. Three hours of lecture/discussion per week. Offered alternate years (fall).

Prerequisites: CHM 201 Organic Chemistry I, any 200-level course in Biology, or permission of the instructor

960. Environmental Science Internship

Students are encouraged to pursue internship experiences.

ENVIRONMENTAL STUDIES (EST) (Minor only)

Director: Associate Professor Giacomo Gambino

The courses of instruction listed below constitute an interdisciplinary environmental studies minor designed to provide students with an understanding of the fundamental socioeconomic, political, historical, and philosophic institutions, attitudes, and values in which the environmental crisis is rooted. Students in this program are expected to secure at least a basic knowledge of the policies and strategies, whether political, economic, or technological, required to address the problems which flow from the environmental crisis.

Minor Requirements

ESC 113 Environmental Science I
EST 101 Introduction to Environmental Studies
EST 960 Environmental Studies Internship

Four additional courses, chosen from among the following:

ATH 230 Native American Ecology
ATH 310 Human Ecology
BIO 112 Concepts of Biology: Biodiversity
BIO 260 Field Botany & Plant Ecology
BIO 262 Cultural & Economic Botany
BIO 270 Ecology
BIO 465 Conservation Biology
COM 336 or 337 Environmental Communication
ECN 245 or 246 Environmental Economics
ECN 249 or 250 Economics of Natural Resources & Sustainability
ENG 260 Literature & the Environment
ENG 338 or 339 City, Frontier, & Empire in American Literature
ENG 357 Native American Literature
HST 341 or 342 Environmental History of the United States
PHL 246 Environmental Philosophy
PSC 216 or 217 Environmental Politics & Policy Making
PSC 330 or 331 Comparative & International Environmental Policies
SOC 260 Human Population Growth
SOC 320 Environmental Sociology
ESC 114 Environmental Science II
ESC 201 Environmental Geology
EST 350 Environmental & Cultural Conservation in Latin America
EST 970 Environmental Studies Independent Study/Research

COURSES

101. Introduction to Environmental Studies

An examination of the ecological, political, social, and ethical implications of contemporary environmental problems. Attention will be given to understanding and evaluating the scientific nature of local, national, and global environmental issues, the historical origins of these problems, and the strategies and goals of the contemporary environmental movement. The course also considers the political, social, and technological options available for addressing environmental problems.

350. Environmental & Cultural Conservation in Latin America

In this interdisciplinary course students will explore real solutions to the delicate problem of environmental and cultural conservation in developing Latin American countries. Each year a particular country (Costa Rica, Guatemala, Ecuador, or Honduras) will serve as a model and ultimate destination for study. Students will meet regularly during the spring semester to develop projects and prepare for the two-week intensive, travel-study program that will take place in early summer. This preparation will include study of the area's ecological diversity, political and cultural history, and relevant Spanish vocabulary and conversation skills. In the Latin American country, students will explore a variety of habitats, live in and interact with members of a small community, work with conservation professionals, and conduct independent research projects. The objective of this course is to show that if we are to develop lasting solutions, we must consider the environment in relation to the people who live in it.

Prerequisite: successful completion of the language requirement in Spanish and instructor permission
Meets general academic requirement D or S.

960. Environmental Studies Internship

Internships may be arranged with appropriate private or public institutions on a local, state, or federal level (especially through the Semester in Washington program). Internships are designed to provide students with practical as well as theoretical insight into environmental problems.

FILM STUDIES (FLM)

Director: Associate Professor Francesca Coppa

Associate Director: Assistant Professor Paul McEwan

Assistant Professor: Osterweil

Film has emerged, in the last 100 years, as a global phenomenon with broad social, cultural, and commercial implications. National cinematic traditions have developed in virtually every corner of the world, making an understanding of film's relationship to its conditions of production and reception integral to the work of cultural historians, students of politics and communications, philosophers, and sociologists alike. Thus film is a vital subject of intellectual inquiry that is useful to a wide range of students, not merely as vocational training for media professionals.

The film studies program at Muhlenberg offers a rigorous, interdisciplinary experience that helps students understand both the technical and expressive components of the cinematic medium and gain practical experience in film production within the framework of a liberal arts education. Students will be exposed to many different forms and genres of film, including classic Hollywood cinema, but also documentary, independent, and experimental film along with the rich traditions of world cinema. The production component of the curriculum gives every student the opportunity for hands-

on experience in filmmaking and allows motivated students to pursue additional work in screenwriting, acting and directing, and advanced film and video production.

Film studies is also designed to complement other major and minor programs that students might choose to pursue in art, communication, English, music, and theatre arts, among others. The program's goal is for all students of the discipline to extend the range and quality of their viewing experiences and to become better informed interpreters of the ways in which film both shapes and represents the world around them.

Major Requirements

To declare and be retained as a film studies major, a student must maintain a 2.000 grade point average based on all the courses taken for the major.

Required Courses:

The major in Film Studies requires 9 courses, 4 of which must be at the 300- or 400-level. No more than 4 courses cross listed with any single department can count toward the major. The requirements are:

1. Three core courses.

FLM 201 Film History I: 1895-1945
FLM 202 Film History II: 1945-Present
COM 251 Fundamentals of Visual Communication

2. One course in national and regional cinemas.

GRM 316 or 317 German Cinema
FLM 325 French New Wave Cinema
FLM 326 Films of Brazil: Cinema and Social Change
FLM 328 Australian Cinema
FLM 330 New Asian Cinemas
FLM 332 Film Cultures of the Middle East

3. One course in genres, forms, and movements.

FLM 225 The Western Film
COM 344 or 345 Documentary Film
COM 346 or 347 Exploratory Cinema

4. One Senior Experience course.

FLM 450 Film Studies Seminar **OR**
COM 467 Advanced Electronic Media Production

5. Three Electives.

The electives can come from any of the courses in the categories "National and Regional Cinema" and "Genres, Forms, and Movements" or from the following courses that are not in any category. (Again, 4 courses for the major must be taken at the 300- or 400- level and no more than 4 courses can be

counted toward the major that are cross-listed with any single department).

Additional elective courses:

COM 240 or 241 Methods of Film & Video Analysis
 ENG 255 Literature & Film
 ENG 321 Shakespeare II
 FLM 341 The Film Industry: How Hollywood Works
 COM 440 or 441 Film Theory & Criticism
 COM 351 Video Production

Students who are interested in pursuing an emphasis in production should plan to take COM 251 (Fundamentals of Visual Communication) in their second year and COM 351 (Video Production) in their third year so that they have the pre-requisites to take COM 467 (Advanced Electronic Media Production) as their “Senior Experience” in their last year.

COURSES

150. World Cinemas

This course offers beginning students a selective survey of films produced around the world in the last 50 years. The course will provide students with an introduction to the language, concepts, and elements of film and seeks to develop facility in analyzing and writing about film. This course does not fulfill a requirement for the major and cannot be used as an elective for it. *Attendance at weekly screenings is required.*

Meets general academic requirement A.

201. Film History I: 1895-1945

An exploration of the international history of film from its invention through the silent era, the rise of Hollywood, and the development of sound to the end of World War II. The course focuses on major directors, technological developments, and the surrounding social, cultural, and commercial contexts from which film emerged. Screenings will include works from Hollywood, international cinema, documentary, and the avant-garde. In addition to the historical survey, the course provides an introduction to the language, concepts, and elements of film. It also provides an introduction to methods of analyzing films, such as formal and structural approaches, and writing about films. *Attendance at weekly screenings is required.*

202. Film History II: 1945-Present

An exploration of the international history of film from the end of the War through important European developments (for example, the French New Wave, Italian Neo-Realism, and New German Cinema) and dramatic changes in production and viewing in the United States (through the Sixties and Seventies) to recent emergence of strong national and regional cinemas in countries all over the world. The course focuses on major directors, technological developments, and the surrounding social, cultural, and commercial contexts within which film continues to flourish. Screenings will include works from Hollywood, international cinema, documentary, and the avant-garde. In addition to the historical survey, the course provides further introduction to language, concepts, and elements of film. It also provides further training in film and textual analysis with a special emphasis on writing. *Attendance at weekly screenings is required.*

Prerequisite: FLM 201 or permission of the instructor

Meets general academic requirement W.

225. The Western Film

This course will examine the Western as the American film genre *par excellence*. Numerous theoretical approaches will be used to study the rise and fall of the Western's popularity, its role in shaping popular myths about the United States, and its representation of masculine identity. By going chronologically from early classical to more contemporary films, students will learn how ideology and socio-historical conditions lead to the making of certain films at certain times. In addition to looking at the classical Western, the course

will analyze how the so-called spaghetti Western and political events such as the Vietnam War have transformed the genre. Students will learn how to read and discuss films by analyzing the various cinematic codes (lighting, editing, camera angles, sets, music, the three gazes, etc.), the significance of the star system, and theories of spectatorship and scopophilia. *Attendance at weekly screenings is required.*

325. French New Wave Cinema

This course explores the very rich period in French Cinema during the 1950s and 1960s that is known as the French New Wave (*La Nouvelle Vague*). Spearheaded by a group of young directors who also wrote their own screenplays (Truffaut, Godard, Malle, Chabrol, Resnais, among others), this movement gave rise to “*Le cinema d’auteur*” as an innovative and influential way to produce films. To understand this very important film movement, we will study the uses of script, image, and sound in the films themselves, with special emphasis on storyline, subplot, and character. We will also pay considerable attention to the cultural and economic contexts in which the films were produced and the biographies of the directors themselves. *Attendance at weekly screenings is required.*

326. Films of Brazil: Cinema & Social Change

This course looks critically at Brazilian cinema in both historical and contemporary contexts. We will study selected films by both major and emergent Brazilian filmmakers and also the social, political, and economic forces shaping film production in Brazil. The course emphasizes both change and continuity in the cultural formation of Brazilian film, with special attention to an enduring concern in such films with social inequality and power relations in Brazil. Critical, historical, and theoretical readings will inform class discussion about the relationship between film and social change in Brazil, focusing on issues of colonialism, liberation, race, gender, class, national identity, and globalization. *Attendance at weekly screenings is required.*

328. Australian Cinema

The Australian Cinema embodies the spatial and temporal conditions of a distant, strange continent that is home to a complex relationship between the majority immigrant population (bearing the traditions and values of European, North American, and now Asian communities) and an indigenous people who date back over 50,000 years. The course will explore these issues by focusing on films made by Australian directors (*auteurs*) made in Australia and abroad and on films made in Australia by non-Australian directors. *Attendance at weekly screenings is required.*

330. New Asian Cinemas

This course will selectively explore the national cinemas of Japan, China, Taiwan, India, and Korea. Although the course concentrates on films that have been produced in the last ten years or so, it will also attend to seminal movements in the development of national cinematic traditions, such as the postwar films of Akira Kurosawa and Yasujiro Ozu in Japan and Saryajit Ray in India. This course will then survey several examples of new East Asian cinema – for example, Wong Kar-wai’s *In the Mood for Love* (Hong Kong/China), Hou Hsiao-hsien’s *City of Sadness* (China), Edward Yang’s *Yi Yi* (Taiwan), Im Kwon Taek’s *Chunhyang*, and Takeshi Kitano’s *Fireworks* (Japan) – and one or two films from India (Mira Nair’s *Salaam Bombay* and a selected Bollywood extravaganza. *Attendance at weekly screenings is required*
Meets general academic requirement D..

332. Film Cultures of the Middle East

This course will focus on cinematic representations of post-revolutionary Iran, of the so-called “question” of Palestine, and of the struggle for national self-definition in Turkey. In order to provide students with a grounding in the films and cultures in question, the course will also explore literary works crucial to the development of the films and cultures in question, and the commercial, social, and political conditions which inform film production, distribution, and reception. The course will include films such as Kiarastomi’s *The Wind Will Carry Us*, Meshkini’s *The Day I Became a Woman*, Suleiman’s *Divine Intervention*, Panahi’s *Crimson Gold*, Makhmalbaf’s *Kandahar*, Ghabadi’s *Marooned in Iraq*, and Ceylon’s *Distant*. The course will be writing-intensive and discussion-oriented. *Attendance at weekly screenings is required*
Meets general academic requirement D and W..

342. The Film Industry: How Hollywood Works

This course will explore the structure of the motion picture industry in the United States by considering the economics of film production, distribution, and exhibition, as well as the technological aspects of the

filmmedium. First, the development of the motion picture industry will be considered from the early 20th Century through the Hollywood Studio Era of the 1930s and 1940s. Second, the course will consider how creative mavericks from the 1940s through the 1970s have been able to challenge or bend the rules of the Hollywood system. Students will explore several case studies involving these rebels, including Orson Welles (*Citizen Kane*), Francis Ford Coppola (*The Godfather*), and Roman Polanski (*Chinatown*). Finally, the course will outline the competing financial calculus of blockbuster and independent filmmaking today, considering the technological and logistical challenges facing filmmakers in an increasingly digital world. *Attendance at weekly screenings is required.*

450. Film Studies Seminar

Advanced study and analysis of selected areas in film studies designed for majors and other qualified students. Topics may include auteur studies, genre or form studies, national or regional film studies, film theory, or explorations of film and popular culture. Special emphasis is placed on advanced textual and film analysis, scholarly discussion, and writing. *Attendance at weekly screenings is required.*

Prerequisite: FLM 202 and senior film studies major or permission of the instructor.

FINANCE (FIN)

Department Chair: Professor Arthur Raymond

Professors: Kish-Goodling, Marshall

Associate Professors: Dale

Internship Director: Eisenberg

The finance major is offered by the Accounting, Business, and Economics Department. It provides students with a comprehensive understanding of the principles that underlie the operation and functions of financial markets and the analytical and quantitative skills needed for an understanding of current financial issues, practices, and policies. Additionally, the major prepares students for graduate work in business and finance and careers in banking, insurance, investments, and corporate financial planning.

The Accounting, Business, and Economics department supervises an endowed, student run Investment Society.

SPECIAL PROGRAMS

Honors Program

A departmental honors program is available on an application basis to students who establish outstanding academic records in their major field (minimum of 3.500). Interested students should discuss the requirements and rewards of this program with their faculty advisor before the end of their junior year.

Internship Opportunities

The department has an extensive internship program that provides the finance major with a wide range of opportunities to gain valuable work experience. Supervised paid

and unpaid internships, which contribute to the Muhlenberg degree, are available during the regular school year. In addition, the department offers assistance in obtaining paid summer internships that may also contribute to the degree.

MAJOR REQUIREMENTS

The finance curriculum balances the academic interests and career intentions of its majors. The program outlined below emphasizes analytical and quantitative skills. In order to declare and remain a major in good standing, a student must achieve and maintain a cumulative grade point average of at least 2.000 in all courses applicable to the major. Students majoring in finance cannot enroll accounting, business, economics, or finance courses on a pass-fail basis.

A major in finance must complete 12 courses as outlined below:

Foundation:

ECN 101 Principles of Macroeconomics

ECN 102 Principles of Microeconomics

ACT 101 Financial Accounting

MTH 144 Introduction to Statistical Analysis (preferably) **OR**

MTH 104 Statistical Methods

MTH 121 Calculus I

Core:

BUS 235 or 236 Management

FIN 237 or 238 Corporation Finance

FIN 330 or 331 Monetary Economics

Electives (Choose four):

ACT 326 or 327 Concepts of Federal Taxation

FIN 311 or 312 Mathematics for Financial Analysis

FIN 344 or 345 Investments & Portfolios

FIN 360 or 361 Advanced Topics in Financial Management

FIN 362 or 363 Multinational Financial Management

FIN 365 or 366 Mergers & Acquisitions

FIN 367 or 368 Derivative Markets

Advice for Finance Majors

1. ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics can be taken in any order. Both courses may be taken during either the first or second years.
2. MTH 121 Calculus I should be completed during the first year.
3. MTH 144 Introduction to Statistical Analysis should be completed during the sophomore year.
4. Students planning on graduate study in finance are encouraged to consult with their faculty advisor for appropriate advanced courses in mathematics.

COURSES

105. Family Finance

0.50 course units

This course will explore several broad areas of family finance: taxes, banking, money management, credit, personal loans, home mortgages, home equity loans, and insurance. Specific topics will include the Federal income tax return, checking accounts, electronic banking, money market funds, CDs, debit and credit cards, car leases, fixed rate vs. adjustable rate mortgages, refinancing, auto and homeowner's insurance, HMOs and PPOs, disability insurance, term vs. whole life insurance, and reading the financial press. Students will develop a mastery of the subject matter through assigned readings, class discussion, and completion of assigned exercises.

106. Family Finance

0.50 course units

This course will explore several broad areas of family finance: saving and investment, retirement planning, and estate planning. Specific topics will include risk preferences and tolerances, risk-return tradeoffs, the stock market, bonds and their features, diversification, mutual funds, open-end and closed-end funds, load vs. no-load funds, index funds, asset allocation, pension plans and vesting, the defined benefit plan, the defined contribution plan, the 401(k), traditional IRAs, Roth IRAs, wills, trusts, and gifts. Students will develop a mastery of the subject matter through assigned readings, class discussion, completion of assigned exercises, and participation in workshop-style presentations.

Prerequisites: FIN 105 Family Finance I or permission of the instructor

237, 238. Corporation Finance

This course develops the major propositions of modern financial theory and the guidance that they provide to the corporate financial manager. The focus is primarily, but not exclusively, on two major areas of decision-making: the investment decision and the financing decision. The exposition of these two areas requires that the following topics be covered: Present value, valuation, portfolio theory, the Capital Asset Pricing Model, capital budgeting techniques, the cost of capital, capital structure, leverage, management of working capital, and ratio analysis.

Prerequisite: ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics and MTH 144 Introduction to Statistical Analysis or MTH 104 Statistical Methods

Meets general academic requirement W when offered as 238.

311, 312. Mathematics for Financial Analysis

The study and application of the mathematical tools needed for financial decision-making. The mathematics is developed in a rigorous way but the emphasis is on the economic rationale underlying the concepts covered and the application of those concepts. The course begins with a discussion of present value theory. From this the following topics are developed in detail: future value, growth rates, annuities in arrears and in advance, corporate bond valuation, the extinction of debt by amortization, conventional mortgages and recent innovations in the mortgage market, sinking funds, deferred annuities, perpetuities, and the effects of compounding and effective annual interest rates.

Prerequisite: ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics and MTH 144 Introduction to Statistical Analysis or MTH 104 Statistical Methods and MTH 121 Calculus I

Meets general academic requirement W when offered as 312.

330, 331. Monetary Economics

A course intended to examine the nature and functions of money and the factors determining its exchange value. Emphasis is placed on the structure of the financial system and the effect of monetary policies in light of Keynesian and Post Keynesian developments.

Prerequisite: ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics

Meets general academic requirement W when offered as 331.

344, 345. Investments & Portfolios

The study of the basic structure, social function, and performance of security markets. Topics covered include the theory of interest-rate determination; bond and stock valuation from the technical, fundamental, and efficient-market perspectives; portfolio and capital market theory; and violations of the efficient-market hypothesis.

Prerequisite: ECN 101 Principles of Macroeconomics and ECN 102 Principles of Microeconomics and MTH 144 Introduction to Statistical Analysis or MTH 104 Statistical Methods
Meets general academic requirement W when offered as 345

360, 361. Advanced Topics in Financial Management

The practical aspects of financial management are stressed. The course is a blend of applications, case studies, and theory. Topics include the bond refunding question, capital budgeting under conditions of uncertainty, the theory of capital structure, dividend policy, leasing, mergers and corporate restructuring, bankruptcy, pension funding, and international financial management.

Prerequisite: FIN 237 or 238 Corporation Finance

Meets general academic requirement W when offered as 361.

362, 363. Multinational Financial Management

This course will address those issues of concern to firms whose operations cross national boundaries. These will include management of foreign exchange risk, raising funds in global capital markets, international portfolio diversification, and capital budgeting in an international setting.

Prerequisite: FIN 237 or 238 Corporation Finance

Meets general academic requirement W when offered as 363.

365, 366. Mergers & Acquisition

A seminar course covering selected financial topics focusing on acquisition, mergers, and business combinations facing senior business managers. The course will review and build upon materials presented in prior courses. Numerous readings, class discussion, presentations, and case analyses will be required.

Prerequisite: FIN 237 or 238 Corporation Finance

Meets general academic requirement W when offered as 366.

367, 368. Derivative Markets

This course will explore the economic rationale for and benefits of the derivative markets. Coverage will include stock options, commodity, financial and foreign exchange futures, as well as the investment strategies that make use of these instruments. The roles of hedgers, speculators, and arbitrageurs will be examined, along with risk management, portfolio insurance, program trading, the regulatory setting, and other related topics. Special emphasis will be given to issues of interest to the corporate financial manager.

Prerequisite: FIN 237 or 238 Corporation Finance

Meets general academic requirement W when offered as 368.

960. Finance Internship

Under faculty supervision, students will be placed in internship positions with local business and other related organizations in order to gain experience in the application of the theories and concepts learned in the classroom. Students will be required to document their experiences in a written journal, to share their experiences with others in a classroom setting, and to prepare a significant term paper or project report. Open to juniors and seniors only. Pass-fail only.

GERMAN STUDIES

Directors: Professors Albert A. Kipa and Franz Birgel

PROGRAM REQUIREMENTS

Major Requirements

Students majoring in German Studies must successfully complete GRM 204 Intermediate German II and any previous language courses with a grade point average of at least 2.000 or demonstrate an equivalent command of the language. All majors must maintain a grade point average of at least 2.000 in all courses attempted in the major. Normally, GRM 221 German Civilization will fulfill the College's writing intensive requirement in the major.

Majors take nine courses beyond GRM 204 Intermediate German II, including:

- GRM 220 or 221 German Civilization
- GRM 251 or 252 Masterpieces of German Literature I **OR**
- GRM 400 Introduction to German Literature
- GRM 253 or 254 Masterpieces of German Literature II
- GRM 316 or 317 German Cinema
- GRM 301 or 302 German Conversation & Composition **OR**
- GRM 303 or 304 Advanced German Conversation & Composition

Four additional courses selected from:

- GRM 310 or 311 Business German
- GRM 355 or 356 The Faust Theme in Literature, Music, & Art
- GRM 360 The New Germany
- GRM 400 Introduction to German Literature
- GRM 412 German Prose
- GRM 413 German Drama
- GRM 414 German Lyric Poetry
- HST 245 or 246 Modern Germany
- MUS 227 Opera
- PSC 230 or 231 Government & Politics of Europe

Minor Requirements

Students minoring in German Studies must successfully complete GRM 203 Intermediate German I and any previous language courses with a grade point average of at least 2.000 or demonstrate an equivalent command of the language. All minors must maintain a grade point average of at least 2.000 in all courses completed in the minor.

Minors take six courses beyond GRM 203 Intermediate German I, including:

- GRM 220 or 221 German Civilization
- GRM 251 or 252 Masterpieces of German Literature I **OR**
- GRM 400 Introduction to German Literature
- GRM 253 or 254 Masterpieces of German Literature II
- GRM 204 Intermediate German II **OR**
- GRM 301 or 302 German Conversation & Composition

Two additional courses selected from the German Studies program offerings.

360. The New Germany*

An examination of the cultural, geographic, and social structures and the intellectual currents and issues of reunited Germany as well as an exploration of their traditions and historical roots through reading and analysis of pertinent texts and works of literature, film, and art. Taught in English.

Meets general academic requirement H.

* Course will contain an additional language component for students pursuing a degree in German Language and Literature. Those students will meet with the instructor for an additional session per week when the subject matter will be discussed in German.

HISTORY (HST), GEOGRAPHY (GEO)

Department Chair: Professor John W. Malsberger

Professors: Adams, Wilson

Associate Professors: Cragin, Croskey, Ridner, Tighe

Assistant Professor: Stein

Lecturers: Clemens, Jones

The Department of History seeks to instill in students an appreciation for the past within the liberal arts context. It aims to develop in students knowledge of the political, social, cultural, economic, and institutional developments that have shaped the contemporary world and to equip them with the skills necessary to acquire, interpret, and synthesize historical evidence. Because the history major emphasizes research, writing, and critical analysis, it provides an excellent foundation for students to pursue careers in law, education, business, and public service.

SPECIAL PROGRAMS

Honors Program

A student may complete honors in either semester of the senior year. The Department of History grants honors at commencement to majors who have fulfilled the following:

1. A 3.750 grade point average in history and an overall 3.500 grade point average at the end of the semester before which the honors program is undertaken.
2. The submission and approval of an honors essay by the Monday of the final week of classes of the semester selected. This essay, which may be developed from a paper submitted in a course, must include significant use of primary source materials. (Honors candidates develop their papers through enrolling in HST 970 History Independent Study/Research.)
3. Passing of an oral examination conducted by members of the department. This examination will be given at the end of the selected semester and will cover the field of the student's honors essay.

Teacher Certification

Required courses for history majors with secondary education certification:

Class of 2008

- HST 100-149 Introduction to History
- HST 400 Historical Methods or HST 400-449 Reading Seminar in History
- HST 500-549 History Seminar or HST 450-499 Research Seminar in History
- Five advanced courses in history (Students must complete at least one course in each of the three areas of study: European, American, and Non-Western, and at least one course whose content focuses before 1789.)

Class of 2009

- HST 100-149 Introduction to History
- HST 400-449 Reading Seminar in History
- HST 450-499 Research Seminar in History
- Five advanced courses in history (Students must complete at least one course in each of the three areas of study: European, American, and Non-Western, and at least one course whose content focuses before 1789.)

Class of 2010

- HST 100-149 Introduction to History
- HST 400-449 Reading Seminar in History
- HST 450-499 Research Seminar in History
- Six advanced courses in history (Students must complete at least one course in each of the three areas of study: European, American, and Non-Western, and at least one course whose content focuses before 1789.)

Courses leading to social studies certification:

ECN 101 Principles of Macroeconomics **OR**

ECN 102 Principles of Microeconomics

GEO 101 World Geography

Two courses in political science

PSC 101 Introduction to American National Government

PSC 103 Introduction to Comparative Government & International Relations

PSY 101 Introduction to Psychology

SOC 101 Introduction to Sociology

PROGRAM REQUIREMENTS

Major Requirements

To declare a major in history, a student must achieve at least a C in HST 100-149 Introduction to History. To remain in good standing, a student must maintain at least a 2.000 grade point average in all major requirements.

In the Fall 2006 semester the History Department began to implement a change in the requirements for majors and minors. The existing courses, HST 400 Historical Methods and HST 500-549 History Seminar, were replaced with a two-semester sequence, HST 400-449 Reading Seminar in History and HST 450-499 Research Seminar in History. Each two semester sequence will focus on a common theme and will be taught by the same professor. Majors and minors in the Class of 2008 may elect to take either the new two semester sequence **or** the existing HST 400 and HST 500-549. Majors and minors starting with the Class of 2009 must take the new two-semester sequence.

Required courses:

Class of 2008

- HST 100-149 Introduction to History
- HST 400 Historical Methods **or** HST 400-449 Reading Seminar in History
- HST 500-549 History Seminar **or** HST 450-499 Research Seminar in History
- Six advanced courses in history (Students must complete at least one course in each of three areas of study: European, American, and Non-Western History, and must complete at least one course whose content focuses before 1789.)

Class of 2009 and beyond

- HST 100-149 Introduction to History
- HST 400-449 Reading Seminar in History
- HST 450-499 Research Seminar in History
- Six advanced courses in history (Students must complete at least one course in each of the three areas of study: European, American, and Non-Western History and must complete at least one course whose content focuses before 1789.)

Minor Requirements

Required courses:

Class of 2008

- HST 100-149 Introduction to History
- HST 400 Historical Methods **or** HST 400-449 Reading Seminar in History
- HST 500-549 History Seminar **or** HST 450-499 Research Seminar in History
- Three advanced courses in history

Class of 2009 and beyond

- HST 100-149 Introduction to History
- HST 400-449 Reading Seminar in History
- HST 450-499 Research Seminar in History
- Three advanced courses in history

To remain in good standing as a minor, a student must maintain at least a 2.000 grade point average in all minor requirements.

Courses in History are numbered as follows:

100-150: designed to acquaint beginning students with the academic study of history.

200-299: concentrate on broad chronological studies of countries or regions. Generally intended for students with one prior college-level history course.

300-399: examine topics or themes in history. Generally designed for students with one or more prior college-level history courses.

HISTORY COURSES

100-149. Introduction to History

Using a topical approach, this course will introduce the student to the study of history. The course will develop critical, analytical, and writing skills using historical data and methods. Each course will consider historical developments in time, introduce the student to different modes of historical study, familiarize the student with appropriate primary and secondary sources, and encourage an appreciation of the diversity of the historical past. Topics will be announced and described in the registration material for each semester.

Meets general academic requirement H.

150. Introduction to Traditional Japan

This course surveys the traditional culture and history of Japan down to the beginning of modernization. Major topics are the court culture, the samurai, and the culture of the townspeople. Appropriate for students with no prior college-level history.

Meets general academic requirement D or H.

400. Historical Methods

An introduction to research and writing in history. The course will address different approaches to history, the nature and types of historical sources, bibliographical aids in research, general research skills, the authenticity and reliability of sources, and the techniques and processes of various types of historical writing, including a major research paper.

Prerequisite: any two history courses

Meets general academic requirement W.

400-449. Reading Seminar in History

A readings seminar devoted to an in depth examination of an historical topic or era. Topics of seminars will vary and will be announced prior to registration. Required of all history majors and minors. Students must register for the corresponding research seminar in the following semester to satisfy the requirements for the history major or minor.

Prerequisite: any two history courses

450-499. Research Seminar in History

A research and writing seminar, paired with a Reading Seminar in History (HST 400-449), that provides students with the opportunity to engage in significant independent research on an aspect of the readings seminar topic. This seminar will also address different approaches to history, the nature and types of historical sources, bibliographic aids in research, general research skills, the authenticity and reliability of sources, and the techniques and processes of various types of historical writing. Required of all history majors and minors.

Prerequisite: successful completion of the Reading Seminar in History paired with the Research Seminar

Meets general academic requirement W.

AMERICAN HISTORY COURSES

221, 222. Colonial America

An examination of the peoples, places, and regions of early America from 1492 to 1763. Specifically, this course focuses on the interaction of Indian, European, and African peoples, the transformation of European (Spanish, French, Dutch, and English) colonies from frontier outposts to thriving communities, and the rise and eventual cultural and economic domination of British North America.

Meets general academic requirement H (and W which applies to 222 only).

223, 224. Revolutionary America

An examination of the political, economic, and cultural causes, contexts, and outcomes of the American Revolution, 1763-1800. Specifically, this course investigates the origins of the conflict in eighteenth-century colonial America, its impact upon various peoples (White, African-American, Indian, male and female) and the regions (New England, Mid-Atlantic, and South), and its eventual resolution in the political and social workings of the Confederation and Constitutional eras.

Meets general academic requirement H (and W which applies to 224 only).

225, 226. Nineteenth Century America

A political and social history of the United States from 1815 to the Populists. The course will emphasize the key political developments of our nation's first century and the social contexts in which they occurred.

Meets general academic requirement H (and W which applies to 226 only).

227, 228. Twentieth Century America I: 1900-1945

An examination of the changes in American political culture arising from the nation's transformation into an urban, industrial nation. Topics to be emphasized include the reform traditions of Progressivism and the New Deal, the rise of American internationalism, and the development of a modern American culture. The course also uses feature films from the appropriate era to illustrate major themes in the nation's development.

Meets general academic requirement H (and W which applies to 228 only).

229, 230. Twentieth Century America II: Since 1945

An analysis of post-World War II America focusing on the fragmentation of the national consensus on domestic and foreign policy. Topics to be emphasized include The Cold War, McCarthyism, the civil rights revolution, the counter-culture of the 1960s, the Vietnam War, Watergate, the Reagan years, and the 1990s and beyond. The course also relies on feature films as documents from the appropriate era to illustrate major themes in the nation's development.

Meets general academic requirement H (and W which applies to 230 only).

231, 232. American Cultural & Intellectual History: Nineteenth Century

Traces the development of American intellectual and cultural life from the early days of the new nation until the end of the nineteenth century. Using primary sources and recent historical monographs, this course will explore both high and low culture, the creation of an urban mass culture, the development of an American literary and philosophical voice, the clash of science and religion, and the rise of a university trained professional class.

Meets general academic requirement H (and W which applies to 232 only).

233, 234. American Cultural & Intellectual History Since 1900

Traces the development of American intellectual and cultural life since 1900. Using primary sources and historical monographs, the course will explore topics such as the rise of American philosophy, the flourishing of American literature, the elaboration of American political and social thought, the development of popular and mass culture, and the growth of minority cultures.

Meets general academic requirement H (and W which applies to 234 only).

321, 322. History of American Foreign Policy

This course analyzes the causes and consequences of America's development as a world power. Topics to be considered include the rise of an American diplomatic tradition during the colonial/Revolutionary era,

nineteenth-century continental expansion, and the evolution of American internationalism in the twentieth century. Primary emphasis is given to twentieth-century developments.
Meets general academic requirement H (and W which applies to 322 only).

323, 324. Constitutional History of the United States

This course traces the evolution and application of constitutional theories and concepts from our English forebears to the US today. The great controversies which reached the Supreme Court are examined in light of contemporary political and cultural values and of their enduring national importance.
Meets general academic requirement H (and W which applies to 324 only).

325, 326. American Economic History

This course, emphasizing the post-1860 period, examines both the roots of American economic growth and the impact that growth has had on American ideas, culture, and institutions. Topics to be considered include the rise of big business, changes in the internal structure of the business establishment, the development of a corporate culture, shifting attitudes of government toward business, and the state of the modern American economy.
Meets general academic requirement H (and W which applies to 326 only).

327, 328. Women's America

Women, whether as daughters, wives, mothers, workers, scholars, or political activists, have played pivotal roles in American history. This course, an overview of American women's history from colonial times to the present, examines the variety of women's experiences through time by analyzing the myriad roles they played in the family, society, economy, and national politics. Specifically, using gender as its primary lens of analysis, this course seeks to uncover the broader contexts of American women's experience by examining the dynamic interplay of women and men, values and culture, and discussing how structures of power linked especially to gender, but also to class and race, shaped women's lives and mediated their experiences in the private and public worlds of America.
Meets general academic requirement H (and W which applies to 328 only).

333, 334. American Military History

This course will explore the role that military combat has played in American history. Its primary focus will be on the American Revolution, the Civil War, World War I and II, and Vietnam. Students will discuss the causes of America's wars, the primary military operations involved in each, and the impact each had on American society. Extensive reading and writing, independent thinking, and wide-open class discussions will be the highlights of the course.
Meets general academic requirement H (and W which applies to 334 only).

341, 342. Environmental History of the United States

An environmental history of the United States from the English settlement to the present. An examination of the ideas and attitudes that shaped human impact on and interaction with the land and the environment. The course will also explore the influence of legislation, judicial decisions, and governmental policy upon the environment. In addition, the course will examine land-use patterns and their significant changes over the past 400 years. The readings will emphasize relevant primary writings and recent scholarship.
Meets general academic requirement H (and W which applies to 342 only).

345, 346. Disease & Medicine in American History

This course focuses on the complex interplay of disease and medicine in the context of American culture and society over the last two centuries. It will examine the changing concepts of disease, the increasing success with which medicine has healed the body, and the development of the medical professions from the late 18th century to the present. It will also explore the ways in which Americans have employed diseases as social and cultural metaphors.
Meets general academic requirement H (and W which applies to 346 only).

347, 348. History of Public Health in America

This course will explore the history of public health in America from the late seventeenth century to the present. It will examine the history of medical crises that evoked a public health response. The development

of formal institutions of public health and the environmental, industrial, and social aspects of public health in the contexts of the changing medical, political, and social environments of the United States. Topics to be considered include epidemic diseases, environmental problems, industrial medicine, social issues such as smoking, and the development of departments of public health on the local, state, and national level.

Meets general academic requirement H (and W which applies to 348 only).

357, 358. Alternative America: The Losers' History of the United States

Much of the history we read is written by the winners of past conflicts. This course examines major events in America's past such as the ratification of the Constitution, the sectional conflict of the antebellum era, and the industrialization of the late 19th century from the perspective of the losers in those conflicts. We will consider the criticisms made by the losers and their alternatives to determine how different the United States might have been had they prevailed.

Meets general academic requirement H (and W which applies to 358 only).

361, 362. Latinos in the United States

This course will examine the three major groups of Latinos in this country—Cubans, Mexicans, and Puerto Ricans. It will examine the history of U.S. relations with each of these countries and the historical reasons for immigration. We will also study the experiences of the new arrivals and their economic, social, and political participation in U.S. society and issues such as racial, linguistic, and ethnic identity. In addition, students will have the opportunity to use the city of Allentown, which has a Latino population of close to 25 percent, as a living laboratory.

Meets general academic requirement D or H (and W which applies to 362 only).

365, 366. The African-American Experience I: to 1896

This course examines the history of African-Americans from colonial times until 1896, the year the Supreme Court sanctioned the notion of "separate but equal." Specifically, it uses the writings of African-Americans and other primary sources critical to their history to examine how events (such as the rise of slavery, the push for abolition, the Civil War, and the start of Jim Crow) and cultural influences (such as race, class, gender, the law, Christianity, and family life) shaped African-American lives and experiences until the end of the nineteenth century.

Meets general academic requirement D or H (and W which applies to 366 only).

367, 368. The African-American Experience II: since 1896

This course examines the history of African-Americans from 1896, the year the Supreme Court sanctioned the notion of "separate but equal," to the present. Specifically, it uses the writings of African-Americans and other primary and secondary sources to examine how events (such as the rural exodus to urban centers after *Plessy vs. Ferguson*; the origins, progress, protest, and organizations of the modern civil and human rights movements; and urban renewal programs) and cultural influences (such as race, class, gender, the arts, the law, and the Church) shaped African-American lives and experiences in the twentieth century.

Meets general academic requirement D or H (and W which applies to 368 only).

371, 372. The American Frontier

The frontier is one of the most important, enduring, and mythologized symbols of America. Through readings in primary and secondary sources, the course will explore the American frontier of the 17th, 18th, and 19th centuries as process, symbol, and place. The students will study the contrast of frontier myths with realities and will discuss the frontier's role in shaping American culture and identity. Close attention will be paid to the impact the pioneers had on the landscape and on the Native Americans who resided there.

Meets general academic requirement H (and W which applies to 372 only).

EUROPEAN HISTORY COURSES

203, 204. Ancient Greece

A survey of Greek history and civilization from the Minoan period to the Roman Conquest with emphasis on cultural, social, economic, and institutional developments as seen in the light of classical Greek historical writings, literature, art, and scholarship.

Meets general academic requirement H (and W which applies to 204 only).

205, 206. Ancient Rome

The Roman Empire endured from 27 B.C. to 1453 A.D., and its history poses the question, not why it fell, but how it could have lasted so long. This course will focus on the first four centuries of the empire, beginning with the civil wars at the end of the first century B.C., from which the first Roman emperor took his rise, to the reign of Theodosius at the end of the fourth century A.D., when the centers of empire had moved away from Rome itself to Constantinople and Milan. We will give special attention to the political and social foundations of Rome, to Rome's relations with the provinces, and to their interactions with the capital. The range of economies, religious traditions and cultures within Roman frontiers will be considered, as will the role of the Mediterranean itself in fostering trade, imperial administration, and the rise of Christianity.

Meets general academic requirement H (and W which applies to 206 only).

211, 212. Medieval Europe

The course begins with the fall of the Roman Empire in the West, explores the gradual development of a new way of life (incorporating Roman, Christian, and German elements), and ends with the High Middle Ages—a time of intellectual and economic awakening. Emphasis will be on the cause and nature of such peculiarly Medieval institutions as feudalism and manorialism, conditions of daily life, cultural achievements, and precursors of Modern European civilization.

Meets general academic requirement H (and W which applies to 212 only).

213, 214. Seventeenth Century Europe

A detailed treatment of political, social, cultural, and intellectual developments in Europe from 1598 to 1715. The principal focus will be on Western Europe. Themes shall include the evolution of the dynastic monarchies, the “cultural crisis” and the Scientific Revolution, and the emergence of a European state system in the Age of Louis XIV.

Meets general academic requirement H (and W which applies to 214 only).

215, 216. Eighteenth Century Europe

A detailed treatment of political, social, cultural, and intellectual developments in Europe from 1715 to 1795. The principal focus will be on Western Europe. Themes shall include the political and social structure of *ancien regime* Europe, the diplomacy of the European state system, the Enlightenment, and the transition from despotism to revolution.

Meets general academic requirement H (and W which applies to 216 only).

217, 218. Revolution & the Birth of Modern Europe (c. 1787-1919)

A comparative overview of an era of violently dramatic change, one marked by an unprecedented incidence of revolts and reactions across the European continent, in the low countries, France, Italy, Russia, Germany, and elsewhere. Monarchs were unseated and restored; republics instituted and destroyed; a Worker's International proclaimed and challenged; and many lives were lost in the process—from that of the Bourbon King Louis XVI to the Spartacist Rosa Luxemburg's. A new mass society was forming, founded increasingly on respect for the rule of law and patience with democracy.

Meets general academic requirement H (and W which applies to 218 only).

241, 242. Modern France (c. 1814-1914): From Napoleon to the Great War

A survey of France from Napoleon I to World War One. Topics to be considered include the successes and failures of the Great Revolution, the rise and fall of two Napoleons, the restoration of monarchy, three more bloody revolutions, experiments with two democratic republics, the foundation of a vast overseas empire, and a long struggle with its neighbors culminating in the war to end all wars. Special emphasis will be given to the development and conflicts of a modern class society.

Meets general academic requirement H (and W which applies to 242 only).

243, 244. Modern France (c. 1914-present): The Unmaking of a Nation

A survey of France from the Great War to the present. Subjects to be explored include the experience of two world wars, colonial conflicts (domestic and foreign), the 1968 revolts, and the decline of the welfare state.

Meets general academic requirement H (and W which applies to 244 only).

245, 246. Modern Germany (c. 1871-present) United, Divided, Reunited

An examination of German history since the consolidation of the Empire. This survey investigates Kaiser William II's regime, the Peace of Paris and the bloodshed it concluded, the Weimar Republic, the Nazi seizure of power, the Holocaust, the bipolar world of the Cold War, and national reunification in 1990.

Meets general academic requirement H (and W which applies to 246 only).

251, 252. Foundations of the British Peoples to c. 1485

This course surveys the prehistory and early history of Great Britain and Ireland. It focuses on the formation of the English and Scottish monarchies and on the interactions of the English, Irish, Scottish, and Welsh peoples from early times until the early modern period. Some emphasis will be placed on the development of government and law in England during this period.

Meets general academic requirement H (and W which applies to 252 only).

253, 254. From England to the United Kingdom: c. 1399-c. 1800

This course emphasizes the consolidation of national monarchies in England and Scotland, as contrasted with the politically subordinate position of Ireland, and the often conflicted interactions of their peoples. The effects of the Reformation, 17th Century constitutional conflicts stemming from the Anglo-Scottish dynastic union of 1603, the growth of an English/British Empire, and the subordination of Scotland (1701) and Ireland (1800) to England are all principal themes, as is the impact of the American and French Revolutions.

Meets general academic requirement H (and W which applies to 254 only).

255, 256. The British Empire/Commonwealth: Rise & Decline, c. 1760-c. 2000

This course focuses on Britain's period of imperial hegemony, roughly from the Napoleonic Wars to the aftermath of World War II. In addition to Britain's changing international role and influence, the course treats the reforms of the 1820 and 1830s which created the governing institutions of modern Britain and looks at the slow unraveling of the "United" Kingdom in the 20th century and its ambivalent position in the European Union today and tomorrow.

Meets general academic requirement H (and W which applies to 256 only).

263, 264. Imperial Russia

This course surveys the history of Russia in the Imperial period, from Peter the Great to the Revolutions of 1917. The development of the Russian state and Russian society and the influence of Western Europe are major themes.

Meets general academic requirement H (and W which applies to 264 only).

265, 266. Soviet Russia

This course covers the Russian Revolution and the development of the Soviet State and its decline and fall.

Meets general academic requirement H (and W which applies to 266 only).

303, 304. Byzantine History

This course will cover the history of the Byzantine Empire from the reign of Constantine, at the beginning of the 4th century A.D., to the fall of Constantinople to the Turks in 1453. Over the term we will study the development of eastern orthodoxy and spirituality, the cultural tensions and exchanges between capital and provinces in the empire, the relations between Byzantium and Islam and Byzantium and the West, and the concept and role of the emperor in Byzantine political life and thought.

Meets general academic requirement H (and W which applies to 304 only).

315, 316. Renaissance

The course concentrates on the Italian Renaissance of the fourteenth and fifteenth centuries and the Northern Renaissance of the fifteenth and sixteenth centuries. Particular emphasis is given to the cultural, intellectual, and religious developments of that epoch.

Meets general academic requirement H (and W which applies to 316 only).

317, 318. Reformation

Both the Protestant and Catholic Reformations are studied from primary sources. The course progresses from an examination of the origins and causes of the Reformation to a consideration of the various types of Reformation which occurred in sixteenth-century Europe. It concludes with an examination of the impact of the Reformation upon European states and societies down to 1600.

Meets general academic requirement H (and W which applies to 318 only).

NON-WESTERN HISTORY COURSES

201, 202. The Ancient Near East

This course is concerned with the various civilizations that emerged in Western Asia and Egypt during the period c. 4000 B.C.-500 B.C. The objectives are to obtain an overview of the historical development of this area and to study the major cultures which evolved there, including (primarily) those of the Sumerians, Egyptians, Babylonians, Hittites, Assyrians, Hebrews, and Persians.

Meets general academic requirement D or H (and W which applies to 202 only).

271, 272. Modern China

China's last imperial dynasty, the increasing impact of Western influence, China's collapse, and the development of the Communist state will be examined through lectures, readings, and discussion.

Meets general academic requirement D or H (and W which applies to 272 only).

273, 274. Modern Japan

The Tokugawa period, the Meiji Restoration, Japan's emergence as a major power in East Asia, World War II, and Japan's postwar transformation will be examined through lectures, readings, and discussion.

Meets general academic requirement D or H (and W which applies to 274 only).

275, 276. Rise of Islam

This course will explore the period of Middle Eastern History [600-1800 CE] which witnessed the emergence of Islam as a religion, political system, and cultural tradition. Topics include the life and career of Muhammad, the basic tenets of Islam, the Arab Conquests and rise of a unitary Islamic Empire, the Umayyad and Abbasid caliphates, the development of a high Islamic culture, the Mongol invasions and the states that grew in the aftermath of those invasions, the Mamluks of Egypt and Syria, the Ottoman Empire, and the Safavid.

Meets general academic requirement D or H (and W which applies to 276 only).

277, 278. Modern Middle Eastern History

A history of the Middle East in the nineteenth and twentieth centuries. Topics covered include attempts at reform in the Ottoman Empire and Iran, the impact of developing nationalisms and European imperialism, the impact of World War I and World War II, the emergence of new states, and the Arab/Israeli conflict.

Meets general academic requirement D or H (and W which applies to 278 only).

291, 292. Colonial Latin America

The study of major themes of colonial Latin American history such as the encounter between Europeans and Indigenous peoples, the biological and cultural consequences of conquest, moral questions of conquest, and the development of colonial society and institutions.

Meets general academic requirement D or H (and W which applies to 292 only).

293, 294. Modern Latin America

The study of post independence Latin America, nation building, and 20th Century issues such as poverty, human rights, revolutions, and relations with the United States. The course also examines modern Latin American culture through literature, art, and religion.

Meets general academic requirement D or H (and W which applies to 294 only).

391, 392. The Mongol Legacy

The Mongol invasions changed the societies of Eastern Europe, the Middle East, and East Asia. The Mongol armies swept away long-established states and introduced new political arrangements and ideologies. This course will investigate the rise and fall of the Mongol world empire with special emphasis on how these developments affected the states and peoples of the Middle East. The conquests of Genghis Khan in the thirteenth century followed a pattern established by earlier Eurasian steppe empires. We will also study the social, cultural, economic, and political aspects of the nomadic invasions. The period of study is bracketed by the rise of the Mongol world empire at one end and the conquests of Tamerlane at the other.

Meets general academic requirements D or H (and W which applies to 392 only).

393, 394. The Arab-Israeli Conflict

Every day the news is filled with stories of the violent struggle between Israel and the Arabs. This course will examine the origins and development of that conflict. We will discuss a range of topics, including the emergence of Zionism, pan-Arabism and Palestinian nationalism, the wars between Israel and the Arab states, the rise of terrorist groups, the role of the world community and especially the United States, and the continuing efforts to find a peaceful settlement to the region's problems. Particular emphasis will be placed on the diversity of perspectives regarding the conflict, its history, and potential solutions.

Meets general academic requirements D or H (and W which applies to 394 only).

395, 396. Sultans, Harems, & Slaves: The Ottoman Empire

This course will examine the history of the Ottoman Empire from its rise in the mid-14th century to its demise in the early 20th century. We will trace the development of the Ottoman state from a small warrior principality on the frontiers of Byzantium to a multi-ethnic, multi-religious world empire ruling the Middle East, Southeast Europe, and the Mediterranean. We will consider Ottoman state institutions, relations with other states, Muslim and Christian, minority rights and communal conflict, the impact of the rise of the European Great Powers, the development of nationalisms, and the emergence of national successor states in all regions of the former empire.

Meets general academic requirements D or H (and W which applies to 396 only).

397, 398. Women in the Middle East

This course surveys the history of women in the Middle East from the advent of Islam in the 7th Century to the present. We will investigate the role of women in Islam as a religion and examine the range of women's experience in different periods and places in the Islamic Middle East. Topics may include the role of women in pre-Islamic Arabia, family law in Islam, the status of women in Islamic societies, Muslim women, and the effects of secularism, nationalism, socialism, and fundamentalism in the modern period.

Meets general academic requirement D or H (and W which applies to 398 only).

RESEARCH AND INTERNSHIP COURSES

500-549. History Seminar

Designed to examine in depth a wide range of topics of an historical nature. Topics are announced prior to registration. Semester and full-year seminars are offered and are open to both majors and non-majors.

Prerequisite: HST 100-149 Introduction to History and HST 400 Historical Methods

960. History Internship

A limited number of internships are available for qualified seniors in such areas as museum and archival work. Special arrangements for such assignments must be made through the department chair.

GEOGRAPHY (GEO)

101. World Geography

An introduction to the basics of physical and cultural geography, including climate, vegetation, landforms, language, economy, and religion and the study of the physical and cultural geographical features of the various regions of the earth.

Meets general academic requirement D.

HISTORY/GOVERNMENT

Directors: Professors Christopher Herrick and John Malsberger

Additional Contributing Faculty:

Professors: Adams, Slane, Wilson

Associate Professors: Borick, Cragin, Croskey, Gambino, Hashim

Assistant Professors: Deegan, Mathews-Gardner, Mello, Stein

The History/Government interdisciplinary major is designed for students who seek an extensive experience in both history and political science rather than a single major in one or the other discipline. The major focuses on two goals: (1) exposure to selected courses in the American and international areas and (2) understanding the complementary nature of historical and political analyses of significant social, political, and historical issues in the American national and international environment. The major is designed as a preparation for students interested in applying to law school, interdisciplinary graduate study, or graduate study in either history or government.

Major Requirements

Prerequisite:

HST 100-149 Introduction to History **AND**

PSC 103 Introduction to Comparative Politics & International Relations **OR**

PSC 101 Introduction to American National Government

Paired Courses: Four pairs chosen from the list of American and International Study Pairs (students must choose at least 1 pair from each American and International Study)

American Study:

1. PSC 260 or 261 American Political Thought **AND**
HST 233 or 234 American Cultural & Intellectual History Since 1900
2. PSC 205 or 206 Constitutional Law I **OR**
PSC 207 or 208 Constitutional Law II **OR**
PSC 203 or 204 Civil Rights & Liberties **AND**
HST 323 or 324 Constitutional History of the United States
3. PSC 209 or 210 Political Parties & Elections **OR**
PSC 305 or 306 U.S. Congress **OR**
PSC 311 or 312 The American Presidency **AND**
HST 227 or 228 Twentieth Century America I: 1900-1945 **OR**
HST 229 or 230 Twentieth Century America II: 1945-Present
4. PSC 216 or 217 Environmental Politics & Policy Making **OR**
PSC 330 or 331 Comparative & International Environmental Policies **AND**

HST 341 or 342 Environmental History of the United States

International Study:

1. PSC 232 or 233 Governments & Politics of East Asia **AND**
HST 271 or 272 Modern China **OR**
HST 273 or 274 Modern Japan
2. PSC 244 or 245 Governments & Politics of Latin America **AND**
HST 291 or 292 Colonial Latin America **OR**
HST 293 or 294 Modern Latin America
3. PSC 256 or 257 American Foreign Policy **AND**
HST 321 or 322 History of American Foreign Policy
4. PSC 230 or 231 Government & Politics of Europe **AND**
HST 217 or 218 Revolution & the Birth of Modern Europe **OR**
HST 243 or 244 Modern France
5. PSC 248 or 249 Government & Politics of the Middle East **AND**
HST 277 or 278 Modern Middle Eastern History

Electives:

Two advanced courses (a seminar may be included) chosen from either department.

Students in this major may not enroll any history or political science courses on a pass-fail basis. To continue as a major, the student must maintain a 2.000 grade point average in all courses attempted in the program.

Majors may satisfy the writing intensive course requirement for the major in history or political science.

INTERNATIONAL STUDIES

Director: Professor Christopher W. Herrick

Additional Contributing Faculty:

Professors: Adams, Heitmann, Kish-Goodling, Marshall, Raymond

Associate Professors: Abruzzi, Borick, Cragin, Croskey, Dale, Hashim, Knox, Kovats-Bernat, Lewis, Sullivan

Assistant Professors: Bergenstock, Chi, Mello, Stein

IS Advisors: Herrick, Hashim

The international studies major integrates the perspectives of political science, economics, business, and history in an effort to provide the student with a more structured approach to a comprehensive understanding of the complex and interdependent nature of political, social, and economic factors which shape behavior

in the international system. Five concentrations are offered which permit the student to focus in a given area of interest: (1) Conflict and Peace Studies; (2) Environmental Issues; (3) Global Trade and International Business; (4) Global Interdependence; or (5) an Area Studies concentration or a uniquely designed specialized concentration. The major prepares the student for careers in foreign service, the intelligence community, international business, the international policy-making community, related research fields, as well as law and teaching. Students are encouraged to pursue one or two semesters in education abroad programs approved by the faculty advisor.

Recommendations for Study Away from Campus

Students are strongly urged, in consultation with their faculty advisor, to plan their major early in their career at Muhlenberg so that space can be provided for important out-of-classroom learning such as the Washington Semester and internships.

Recommended Language Courses

International studies majors are strongly encouraged to demonstrate competence in a language other than English by double majoring or minoring in a language. Alternately, if their schedules do not permit a minor, students are strongly encouraged to take courses in a language through Advanced Conversation & Composition. Students may complete one of two required writing intensive courses with one of the following:

- FRN 303 or 304 Advanced French Conversation & Composition
- GRM 303 or 304 Advanced German Conversation & Composition
- RUS 303 or 304 Advanced Russian Conversation & Composition
- SPN 303 or 304 Advanced Spanish Conversation & Composition

In addition, students may fulfill the general academic requirement in historical studies with one of the following courses:

- FRN 320 or 321 French Civilization
- GRM 220 or 221 German Civilization
- SPN 320 or 231 Civilization of Spain
- SPN 322 or 323 Civilization of Latin America

Finally, international studies majors may find the following courses useful:

- FRN 310 or 311 Business French
- GRM 310 or 311 Business German
- SPN 310 or 311 Business Spanish

Honors in International Studies

A student may work for Honors beginning in the spring semester of their junior year. Students who fulfill the following conditions will be awarded honors at Commencement:

1. A 3.500 grade point average in international studies.
2. Enrollment in two independent studies offered by members of departments participating in the international studies major.
3. A grade point average in the two independent studies of no less than 3.250.

4. The submission and approval of an Honors essay as the culmination of one of the two independent studies. This essay must be of substantial length (approximately 25 pages) and be based upon an appropriate volume of primary and secondary research.
5. Passing of an oral defense of the project conducted by members of the departments participating in the International Studies major.

MAJOR REQUIREMENTS

The major consists of six core courses plus six courses in either one of the five designated concentrations or a specialized concentration.

Core Course Requirements:

PSC 103 Introduction to Comparative Politics & International Relations
ECN 101 Principles of Macroeconomics
ECN 102 Principles of Microeconomics
PSC 328 or 329 International Law & Organization
PSC 339 or 340 Theories of International Relations
PSC 440 Seminar in International Studies

Optimally, the student will follow one of the following four designated concentrations. However, where there is a compelling academic reason, such as education abroad, the student may make substitutions in any of the five concentrations or design a unique concentration (such as Developing Nations Studies) in consultation with his or her faculty advisor and the director of the major.

Concentrations

Conflict and Peace Studies

This concentration explores the complexity of conflict and examines which social, institutional, and global relationships are able to handle conflicts more efficiently and survive serious conflicts that might destroy less resilient relationships.

Required Courses:

PSC 242 or 243 Introduction to Conflict & Peace Studies

Choose one of the following Area Study Courses:

PSC 230 or 231 Government & Politics of Europe
PSC 232 or 233 Government & Politics of East Asia
PSC 237 or 238 Government & Politics of Africa
PSC 244 or 245 Government & Politics of Latin America
PSC 248 or 249 Government & Politics of the Middle East
PSC 374 or 375 Government & Politics of Russia

Choose four (4) of the following:

PSC 246 or 247 Developing Nations

PSC 256 or 257 American Foreign Policy
PSC 356 or 357 War & Justice
ATH 370 The Ethnography of Violence
SOC 340 Sociology of Development
ECN 336 or 337 Economic Growth & Development
SOC 325 Imagined Communities: Sociology of Nations & States
HST 277 or 278 Modern Middle Eastern History
HST 393 or 394 Arab-Israeli Conflict
PSC 430 Comparative National Security Policy

Environmental Issues

This concentration focuses on developing an understanding of fundamental international institutions, attitudes, and values and the environmental context within which political and economic crises are rooted. It provides students with the opportunities to acquire a basic knowledge of the politics, accommodations, and strategies required to address problems which flow from environmental crises.

Required Courses:

PSC 330 or 331 Comparative & International Environmental Policies
PSC 216 or 217 Environmental Politics & Policymaking

Choose one of the following Area Study Courses:

PSC 230 or 231 Government & Politics of Europe
PSC 232 or 233 Government & Politics of East Asia
PSC 237 or 238 Government & Politics of Africa
PSC 244 or 245 Government & Politics of Latin America
PSC 248 or 249 Government & Politics of the Middle East
PSC 374 or 375 Government & Politics of Russia

Choose three (3) of the following:

ECN 245 or 246 Environmental Economics
PSC 256 or 257 American Foreign Policy
PSC 246 or 247 Developing Nations
SOC 320 Environmental Sociology
SOC 260 Human Population Growth
ATH 310 Human Ecology
GEO 101 World Geography
ECN 249 Economics of Natural Resources & Sustainability
EST 350 Environmental & Cultural Conservation in Latin America

It is strongly recommended that students following the Environmental Issues concentration meet their science requirements by completing any of the following:

ESC 111 Topics in Environmental Science
ESC 113 Environmental Science I
ESC 114 Environmental Science II

Global Interdependence

This concentration examines how political power shapes economic outcomes and is, in turn, constrained by the same economic outcomes. It focuses on international actors such as the state, global corporations, international organizations, as well as subnational actors and international relations, revolving around such global issues as debt, trade, finance, and the environment.

Required Courses:

PSC 343 or 344 International Political Economy

Choose one of the following Area Study Courses:

PSC 230 or 231 Government & Politics of Europe
PSC 232 or 233 Government & Politics of East Asia
PSC 237 or 238 Government & Politics of Africa
PSC 244 or 245 Government & Politics of Latin America
PSC 248 or 249 Government & Politics of the Middle East
PSC 374 or 375 Government & Politics of Russia

Choose four (4) of the following courses:

COM 208 or 209 Communication in the Global Community
ECN 334 or 335 International Trade & Globalization
PSC 254 or 255 Globalization & Social Justice
PSC 246 or 247 Developing Nations
PSC 420 Regimes & Regime Change
PSC 256 or 257 American Foreign Policy
ECN 346 or 347 International Integration & Institutions
PSC 370 or 371 European Union
PSC 430 Comparative National Security Policy

Global Trade and International Business

This concentration grounds the student in the following: (1) the principles of global trade and development and (2) the conditions in which international business operates within specific geographic regions. In addition it provides the student with a grounding in the coordinate skills and principles of international business.

Required Courses:

ACT 101 Financial Accounting
FIN 237 or 238 Corporate Finance
BUS 235 or 236 Management
BUS 239 or 240 Marketing

Choose one of the following Area Study Courses:

PSC 230 or 231 Government & Politics of Europe
PSC 232 or 233 Government & Politics of East Asia
PSC 237 or 238 Government & Politics of Africa
PSC 244 or 245 Government & Politics of Latin America
PSC 248 or 249 Government & Politics of the Middle East

PSC 374 or 375 Government & Politics of Russia

Choose one of the following courses:

BUS 341 or 342 Global Marketing
PSC 343 or 344 International Political Economy
PSC 254 or 255 Globalization & Social Justice
FIN 362 or 363 Multinational Financial Management
ECN 334 or 335 International Trade & Globalization

Students in the Global Trade and International Business Concentration are strongly urged to meet the general academic requirement in reasoning with MTH 104 Statistical Methods.

Area Studies Concentration (Choose one cluster – Europe, Asia, Latin America, Middle East)

Choose one of the following Area Study Combinations:

PSC 230 or 231 Government & Politics of Europe
HST 217 or 218 Revolution & the Birth of Modern Europe (1787-1919)
4 Additional courses appropriate to the geographic area chosen (selected in consultation with the director of the major)

PSC 374 or 375 Government & Politics of Russia
HST 263 or 264 Imperial Russia
HST 265 or 266 Soviet Russia
3 Additional courses appropriate to the geographic area chosen (selected in consultation with the director of the major)

PSC 232 or 233 Government & Politics of East Asia
HST 271 or 272 Modern China
HST 273 or 274 Modern Japan
3 Additional courses appropriate to the geographic area chosen (selected in consultation with the director of the major)

PSC 244 or 245 Government & Politics of Latin America
HST 291 or 292 Colonial Latin America
HST 293 or 294 Modern Latin America
3 Additional courses appropriate to the geographic area chosen (selected in consultation with the director of the major)

PSC 248 or 249 Government & Politics of the Middle East
HST 277 or 278 Modern Middle East
HST 275 or 276 Rise of Islam
3 Additional courses appropriate to the geographic area chosen (selected in consultation with the director of the major)

A 2.000 grade point average in all courses must be maintained to remain a major in the program. Majors may satisfy the writing intensive course requirement in political science; history; economics; or languages, literatures, & cultures.

JEWISH STUDIES (JST) (Minor only)

Director: Assistant Professor Hartley Lachter

The interdisciplinary Jewish Studies minor gives students a basic grounding in the history, literature, thought, and primary language of Jewish civilization. The minor in Jewish Studies adds breadth to any major and is useful for students seeking to enter the workplace right after college, as well as those who intend to apply to graduate programs such as medicine, law, or business. In conjunction with a major in political science, history, or religion, the minor in Jewish Studies can also prepare students for graduate programs in Middle Eastern studies, Jewish history or Jewish Studies. Required courses are flexible in order to tailor the minor to student needs.

Minor Requirements

The minor consists of six courses, approved by the program director. Courses listed below are offered regularly by the college and are approved for Jewish Studies credit:

- ENG 360 or 361 Jewish American Writing
- HBW 204 Intermediate Hebrew II
- HBW 430 Hebrew Literature in Translation
- HST 201 or 202 The Ancient Near East
- HST 277 or 278 Modern Middle Eastern History
- REL 107 Jews & Christians in the 21st century
- REL 229 Jewish Traditions
- REL 302 Hebrew Bible
- REL 306 Jewish Mysticism: Kabbalah
- REL 353 Gender & Sexuality in Judaism
- REL 357 The Holocaust: Nazi Germany & the Jews
- REL 371 Paths in Jewish Thought
- REL 375 The Jewish Christian Relationship
- PSC 248 or 249 Governments & Politics of the Middle East

In addition to the courses listed above, each semester “Special Topics” courses that are not offered by the college on a regular basis are given in most departments. Some of these courses may count for the Jewish Studies minor with the director’s approval.

Courses completed during a study abroad experience in Jewish Studies or courses offered through the Philip and Muriel Berman Center for Jewish Studies at Lehigh University or Lafayette College also count for the minor.

LANGUAGES, LITERATURES, AND CULTURES

Department Chair: Joan F. Marx

Professors: Adams, Birgel, Kipa, Wixon

Associate Professors: Iskold, Perfetti, Sutherland

Assistant Professors: Beibe, McEwan

Lecturers: Bachochin, Buitrago, Danielson, Stilin, Trauger, Zanchettin

Director of the Language Learning Center: Luba Iskold

The department offers students the opportunity to acquire or advance communication skills in the French, German, Hebrew, Italian, Latin, Russian, and Spanish languages. Degree programs focusing on literatures, cultures, and societies through the medium of their own language are available in French, German, and Spanish. Students of German may also select the interdisciplinary German Studies option. A concentration in Russian is provided through the Russian Studies program. All courses and programs contribute to the students' general liberal education by giving it a broader, as well as an international, dimension. In addition, the department's Language Learning Center, a state-of-the-art technological facility, provides computer-based, multi-media instructional material as well as cable and satellite reception for student use in support of these programs.

Placement and Exemption

All students must take a language placement examination before enrolling for the first semester. The results of the examination will determine the appropriate language course assignment. Students seeking exemption from the language requirement must take an exemption examination during fall semester orientation.

Students who have a native command of any language other than English may apply to the department chair for permission to use that language to satisfy the language requirement. Please note, however, that the testing of any language other than the ones offered through the Department of Languages, Literatures, and Cultures is subject to the availability of qualified personnel to perform the testing and to evaluate the student's performance.

SPECIAL PROGRAMS

The department strongly encourages students to participate in a study abroad experience. The College, through the Lehigh Valley Association of Independent Colleges, offers summer programs abroad in German, Italian, and Spanish as well as semester programs in France and Germany. Qualified students desiring to spend their junior year abroad may enroll in approved programs sponsored by other colleges and universities. For further details, students should consult with the chair of the department, their faculty advisor, as well as with the Office of International Programs. Applications for approval to study abroad must usually be filed with the Office of

International Programs no later than the beginning of the spring semester of the preceding academic year.

Teacher Certification

Students seeking certification in the teaching of French, German, or Spanish in elementary or secondary schools must apply for admission to the program through their faculty advisor no later than the end of the sophomore year. They must maintain a grade point average of at least 3.000 in all courses attempted in the major at Muhlenberg and demonstrate fluent command of the spoken and written language. The major track in German Language and Literature should be selected by students seeking teacher certification in German. In addition to the requirements stated above, French and German secondary certification candidates are required to complete the FRN 320 or 321 French Civilization or GRM 220 or 221 German Civilization, as appropriate. Candidates for certification in secondary Spanish are required to complete SPN 320 or 321 Civilization of Spain, SPN 322 or 323 Civilization of Latin America, SPN 305 or 306 Advanced Spanish Grammar & Translation, two courses in Spanish literature, and two courses in Spanish American literature.

PROGRAM REQUIREMENTS

Major Requirements

To declare a major in French or Spanish, a student must have a grade point average of at least 2.000 in the intermediate language courses, FRN 203 Intermediate French I and FRN 204 Intermediate French II or SPN 203 Intermediate Spanish I and SPN 204 Intermediate Spanish II, or demonstrate an equivalent mastery of the language.

Majors must take a minimum of 9 courses beyond the Intermediate II course, including:

301 or 302 Conversation & Composition

303 or 304 Advanced Conversation & Composition (native speakers may be exempted)

At least 4 courses in literature

FRN 303 or 304 Advanced French Conversation & Composition and SPN 303 or 304 Advanced Spanish Conversation & Composition normally serve as prerequisites to all courses numbered 400 or higher. All majors must maintain a grade point average of at least 2.000 in all courses attempted in the department. The Advanced Conversation & Composition course fulfills the College's writing intensive course requirement for all majors.

Students interested in German have three options: a major in German Language and Literature, as described below, or a major or minor in German Studies. Students majoring in German Language and Literature must successfully complete GRM 204

Intermediate German II and any previous language courses with a grade point average of at least 2.000 or demonstrate an equivalent command of the language. Majors complete nine courses beyond GRM 204 Intermediate German II, including GRM 301 or 302 German Conversation & Composition; GRM 303 or 304 Advanced German Conversation & Composition (native speakers may be exempted); GRM 400 Introduction to German Literature; GRM 253 or 254 Masterpieces of German Literature II; GRM 316 or 317 German Cinema; GRM 220 or 221 German Civilization; one of the German genre courses (GRM 412 German Prose, GRM 413 German Drama, or GRM 414 German Lyric Poetry) plus two additional courses from the program offerings. All majors in German Language and Literature must maintain a grade point average of at least 2.000 in all courses attempted in the major. Normally, GRM 221 German Civilization will fulfill the College's writing intensive course requirement in the major.

Students majoring in Russian Studies must successfully complete RUS 204 Intermediate Russian II and any previous language course with a grade point average of at least 2.000 or demonstrate an equivalent command of the language. All majors must maintain a grade point average of at least 2.000 in all courses attempted in the major.

Minor Requirements

A minor in French or Spanish will consist of 6 courses beyond the Intermediate II course, including:

- 301 or 302 Conversation & Composition
- 303 or 304 Advanced Conversation & Composition
- At least 2 courses in literature

Students must maintain at least a 2.000 grade point average in all courses for the minor. The Advanced Conversation & Composition course fulfills the College's writing intensive requirement for all minors.

FRENCH (FRN)

101 & 102. Elementary French I & II

1 course unit each

An introduction to basic grammar and vocabulary as well as communication skills in French within its cultural contexts. Students will use a variety of authentic text and media resources to acquire and enhance linguistic skills. The first semester is designed for students with no knowledge of or with a weak background in French, the second for students with limited but residual previous exposure to French. Assignment by placement test. Four class hours per week plus Language Learning Center assignments.

203 & 204. Intermediate French I & II

1 course unit each

An accelerated review of basic French grammar through speaking, reading, writing, and other linguistically appropriate activities. The introduction of more advanced grammatical structures and a variety of authentic text and multimedia resources will enhance the students' linguistic skills and sociocultural awareness of the French speaking world. The development of functional skills and communicative ability is emphasized. Students also acquire the linguistic tools needed to continue learning French as it pertains to their fields of interest. Assignment by placement test. Three class hours per week plus Language Learning Center assignments.

301, 302. French Conversation & Composition

This course provides intensive practice in conversational French, centered on cultural aspects of the French-speaking world. French and francophone movies serve as the thematic backdrop for in-class discussions, oral presentations, and papers emphasizing correct usage of French linguistic and grammatical structures. This course also focuses on building vocabulary and idiomatic expressions, improving research techniques including proper dictionary use, and expanding students' conversational strategies and variety of expression in conversational and written modes. Offered fall semester.

Prerequisite: FRN 204 Intermediate French II

Meets general academic requirement W when offered as 302.

303, 304. Advanced French Conversation & Composition

A continuation of FRN 301, 302 French Conversation & Composition but with more emphasis on formal writing skills: description, narration, opinion, analysis. Through the study of examples of each genre, students learn the stylistic and linguistic devices appropriate to each before writing their own essays. Advanced grammar study, translation, and vocabulary building are additional aspects of this course since many of the errors students at this level make in their speaking/writing stem from inaccurate translations from English. During the second half of the course, students will read and discuss a contemporary novel dealing with family and social issues in contemporary France for conversational practice as well as an examination of the genres studied in the first half of the course.

Prerequisite: FRN 301 or 302 French Conversation & Composition

Meets general academic requirement W when offered as 304.

305. Topics in France & the Francophone World

This course examines a topic of interest today in France and other countries where French is spoken. The topic varies according to the interests of the instructor and emphasizes increased acquisition of reading and speaking skills. Focusing on social and cultural contexts, the course uses texts such as newspaper and magazine articles, websites, films, literature, and other cultural texts. Rotating topics include nature and the environment, education, Franco-American relations, marriage and the family, and arts and popular culture. Assignments typically include keeping a journal, quizzes on content and vocabulary, short papers, and class presentations. Taught entirely in French.

Prerequisite: FRN 204 Intermediate French II. May be repeated for credit.

310, 311. French for the Professions

Using real-life cases and scenarios, this course introduces students to business practices in France and the francophone world. Contacts with local professionals, both inside and outside of the classroom, allow students to explore the numerous possibilities of using their French linguistic and cultural knowledge beyond the academic arena (such as working for companies with international offices, volunteering with health organizations in French-speaking countries, providing translation services, and so forth). This course focuses on acquiring the proper writing, analytical, and oral presentational skills necessary to succeed in such careers. In addition to linguistic training, students learn techniques for cross-cultural analysis vital to conducting business in France or in other countries around the world. Offered in alternate spring semesters.

Prerequisite: FRN 204 Intermediate French II

Meets general academic requirement W when offered as 311.

320, 321. French Civilization

Beginning with the prehistoric cave paintings of Lascaux and ending with the present Fifth Republic, this course traces the major periods in the civilization of France through a survey of its geographical, historical, social, literary, and artistic heritage. Taught in French.

Prerequisite: FRN 301 or 302 French Conversation & Composition

Meets general academic requirement H (and W which applies to 321 only).

330, 331. Francophone Cultures of Africa & the Caribbean

An introduction to the diverse cultures of the francophone world, specifically of the French-speaking African and Caribbean countries. Beginning with the period of French colonization, students will explore the development of various historical, social, political, and artistic aspects of contemporary francophone culture through film, literature, magazines, the internet, and other multi-media materials. Taught in French.

Prerequisite: FRN 301 or 302 French Conversation & Composition, FRN 305 Topics in France & the Francophone World or FRN 310 or 311 French for the Professions
Meets general academic requirement D (and W which applies to 331 only).

410. Origins of Love in Medieval & Renaissance France

In this course we will consider how love was “invented” in Europe beginning with the 11th century. We will consider how nascent views of love influenced gender relations as well as how they intersected with the institution of marriage and social attitudes about marriage. We will learn how our ideas about love are not universal but rather an historical product. We will also be able to see where some of our ideas about relationships between the sexes come and wonder about how it is they have endured. We will primarily look at literary texts such as courtly love lyric, the courtly romance, and the later fabliaux and farces that introduce a much “earthier” element into the question of love. We will also study some historical events and consider conduct manuals or theological treatises bearing on social institutions such as marriage. Along the way, we will consider the relationship between historical and literary documents as well as what it meant to be a medieval “author.” Taught in French.

Prerequisite: FRN 303 or 304 Advanced French Conversation & Composition
Meets general academic requirement L.

411. Images of Grandeur in the French Classical Age

In this course we will look at the important developments occurring in art, history, literature, and society in late sixteenth and seventeenth century France. Through the study of the great writers, philosophers, and moralists of this period, we will examine closely how cultural and political change influenced and transformed the literary masterpieces of this “grand siècle” in French history. Questions of human nature as philosophized by moralists, tragic and comedic theatre, fables, folktales, and moral essays will focus the readings and discussions of the evolutionary changes occurring at this time in French history. Taught in French.

Prerequisite: FRN 303 or 304 Advanced French Conversation & Composition
Meets general academic requirement L.

412. Wit & Reason: A Breeding Ground for Revolution

The 18th century begins with the demise of Louis XIV, the king who represents France’s past glory; it ends with the French Revolution, the cataclysmic event which heralds a new and different society as France looks toward the future. What is the individual’s place in society and in the universe? How do we and should we live together as social beings? Such questions are central to this Age of Enlightenment. Our study focuses on *les Philosophes*, especially on Montesquieu, Diderot, Voltaire, and Rousseau. Taught in French.

Prerequisite: FRN 303 or 304 Advanced French Conversation & Composition
Meets general academic requirement L.

413. From Nature’s Charms to Urban *Ennui*: 19th Century French Literature

In reaction to the 18th century emphasis of the Enlightenment on scientific progress for the good of humanity, 19th century Romanticism emphasized the individual and the *mal de siècle*. Political unrest following the French Revolution and changing regimes and republics led writers to champion politics and social causes in their works, reflecting the Realist tradition as they documented the industrial era, the ascendancy of the *bourgeoisie*, and the plight of the worker. Readings include works by Balzac, Stendhal, Flaubert, Maupassant, Zola, and Baudelaire. Taught in French.

Prerequisite: FRN 303 or 304 Advanced French Conversation & Composition
Meets general academic requirement L.

414. Literary Reflections of Crises & Cataclysms in 20th Century France

Twentieth century France saw one crisis after another: the Dreyfus affair, two world wars, the dissolution of her colonial empire and new patterns of immigration, and the events of May ’68. This course looks at the changing face of France in modern times as it is reflected in the literary movements and works that were spawned by these different crises and cataclysms. Readings may include works by Proust, Gide, the Surrealists, Camus, Sartre, Beckett, Ionesco, Ernaux, among others. Taught in French.

Prerequisite: FRN 303 or 304 Advanced French Conversation & Composition
Meets general academic requirement L.

415. Immigration & Identity in Contemporary France

This course examines the situation of residents of France, especially youth, whose parents are immigrants from Africa and the Caribbean. They frequently find that they are caught between two worlds, struggling to be accepted as fully French but wanting to understand their African or Caribbean cultural heritage. Often not considered French, despite their French citizenship, they suffer from racial prejudice, whether on the streets, in the workplace, or in the education system. In addition to these difficulties are the clashes between the culture of their parents' native countries (particularly as concerns the place of women) and French culture. Through an examination of texts from the 1980s and 1990s (novels by Begag, Charef, and Sow Fall, several sociological studies, newspaper articles, films, and music), students will come to understand the complexities involved in defining what it means to be "French" in France today. Taught in French.

Prerequisite: FRN 303 or 304 Advanced French Conversation & Composition

Meets general academic requirement L or D.

GERMAN (GRM)

LANGUAGE COURSES

101 & 102. Elementary German I & II

1 course unit each

An introduction to basic grammar and vocabulary as well as communication skills in German within its cultural contexts. Students will use a variety of authentic text and media resources to acquire and enhance linguistic skills. The first semester is designed for students with no knowledge of or with a weak background in German, the second for students with limited but residual previous exposure to German. Assignment by placement test. Four class hours per week plus Language Learning Center assignments.

203 & 204. Intermediate German I & II

1 course unit each

An accelerated review of basic German grammar through speaking, reading, writing, and other linguistically appropriate activities. The introduction of more advanced grammatical structures and a variety of authentic text and multimedia resources will enhance the students' linguistic skills and sociocultural awareness of the German speaking world. The development of functional skills and communicative ability is emphasized. Students also acquire the linguistic tools needed to continue learning German as it pertains to their fields of interest. Assignment by placement test. Three class hours per week plus Language Learning Center assignments.

301, 302. German Conversation & Composition

Exercises in spoken and written German designed to increase accuracy and freedom and facility of expression. Topics of contemporary interest will be selected for presentation and discussion.

Prerequisite: GRM 204 Intermediate German II

Meets general academic requirement W when offered as 302.

303, 304. Advanced German Conversation & Composition

Continuation of GRM 301, 302 German Conversation & Composition. Advanced exercises in spoken and written German, including the study of idiomatic expressions, review of persistent grammatical difficulties, and stylistic analysis.

Prerequisite: GRM 301 or 302 German Conversation & Composition

Meets general academic requirement W when offered as 304.

310, 311. Business German

Designed to broaden the student's command of oral and written German by emphasizing terms and expressions used in the German business environment.

Prerequisite: GRM 301 or 302 German Conversation & Composition

Meets general academic requirement W when offered as 311.

LITERATURE AND CULTURE COURSES

220, 221. German Civilization*

Introduces students to major trends in the development of various aspects of German culture, including literature, music, art, government, and economics from early times to the present. Emphasis on the last two centuries and on the German speaking areas (FRG, former GDR, Austria, Switzerland). Taught in English.
Meets general academic requirement H (and W which applies to 221 only).

251, 252. Masterpieces of German Literature I*

Readings and discussion of selected masterpieces of German literature from the medieval period to the age of Naturalism. Concentration on major works of literature which have influenced the course of development of German literary history, thought, and culture. Introduction to the terminology as well as the methods and techniques of literary analysis. Emphasis on the development of a sense of appreciation of literature as art. Taught in English.
Meets general academic requirement L (and W which applies to 252 only).

253, 254. Masterpieces of German Literature II*

Readings and discussion of selected masterpieces of German literature from the age of Naturalism to the present. Concentration on major works of literature which have influenced the course of development of German literary history, thought, and culture. Emphasis on genres, themes, traditions, reading sensitivity, and personal response. Taught in English.
Meets general academic requirement L (and W which applies to 254 only).

* These courses contain an additional language component for students pursuing a degree in German Language and Literature who will meet with the instructor for an additional session per week when the subject matter will be discussed in German.

316, 317. German Cinema

A survey of German films from *The Cabinet of Dr. Caligari* to contemporary works with special emphasis on the Golden Age of Weimar cinema and the so-called New German Cinema (Fassbinder, Herzog, Wenders, Sanders-Brahms, and less well known directors). Through a close analysis of these films, the student will gain an understanding and appreciation of cinematic techniques as well as the cultural, social, and political background which shaped these works. Taught in English.
Meets general academic requirement A or H (and W which applies to 317 only).

355, 356. The Faust Theme in Literature, Music, & Art

Reading, analysis, and discussion of selected major literary versions of the Faust theme with comparative and contrastive excursions into its expression in the aesthetic modes of film, music, and art. Taught in English.
Meets general academic requirement L (and W which applies to 356 only).

400. Introduction to German Literature

A chronological survey of German literature from its beginnings to the present with emphasis on its periodization. Introduction to literary terminology and to methods and techniques of literary analysis. Readings will include selections from prose, drama, and poetry. Taught in German. Required of all majors in German Language and Literature who should roster this course first in the literature sequence, if possible. Offered in alternate years.
Prerequisite: GRM 301 or 302 German Conversation & Composition
Meets general academic requirement L.

412. German Prose

A survey of German prose. Close readings and interpretations of selected *Novellen* and novels from Goethe to Grass. Taught in German. Alternates with GRM 413 German Drama and GRM 414 German Lyric Poetry. Offered every third year.
Prerequisite: GRM 301 or 302 German Conversation & Composition
Meets general academic requirement L.

180/

413. German Drama

A survey of German drama from Lessing to Handke. Close readings and interpretations of selected representative works. Taught in German. Alternates with GRM 412 German Prose and GRM 414 German Lyric Poetry. Offered every third year.

Prerequisite: GRM 301 or 302 German Conversation & Composition

Meets general academic requirement L.

414. German Lyric Poetry

A survey of German lyric poetry from the medieval period to the present. Close readings of texts by Goethe, Schiller, Heine, Mörike, Rilke, and others. Taught in German. Alternates with GRM 412 German Prose and GRM 413 German Drama. Offered every third year.

Prerequisite: GRM 301 or 302 German Conversation & Composition

Meets general academic requirement L.

HEBREW (HBW)

101 & 102. Elementary Hebrew I & II

1 course unit each

An introduction to basic grammar and vocabulary as well as communication skills in Hebrew within its cultural contexts. Students will use a variety of authentic text and media resources to acquire and enhance linguistic skills. The first semester is designed for students with no knowledge of or with a weak background in Hebrew, the second for students with limited but residual previous exposure to Hebrew. Assignment by placement test. Four class hours per week plus Language Learning Center assignments.

203 & 204. Intermediate Hebrew I & II

1 course unit each

An accelerated review of basic Hebrew grammar through speaking, reading, writing, and other linguistically appropriate activities. The introduction of more advanced grammatical structures and a variety of authentic text and multimedia resources will enhance the students' linguistic skills and sociocultural awareness of the Hebrew speaking world. The development of functional skills and communicative ability is emphasized. Students also acquire the linguistic tools needed to continue learning Hebrew as it pertains to their fields of interest. Assignment by placement test. Three class hours per week plus Language Learning Center assignments.

430. Hebrew Literature in Translation

A survey of Hebrew literature from the post-biblical era of the second century B.C.E. to the period of emergent modernism in the seventeenth century C.E. Readings embrace the genres of prose fiction, drama, and selections from the Talmud and medieval and religious prose, poetry, and prayers.

Meets general academic requirement L.

ITALIAN (ITL)

101 & 102. Elementary Italian I & II

1 course unit each

An introduction to basic grammar and vocabulary as well as communication skills in Italian within its cultural contexts. Students will use a variety of authentic text and media resources to acquire and enhance linguistic skills. The first semester is designed for students with no knowledge of or with a weak background in Italian, the second for students with limited but residual previous exposure to Italian. Assignment by placement test. Four class hours per week plus Language Learning Center assignments.

203 & 204. Intermediate Italian I & II

1 course unit each

An accelerated review of basic Italian grammar through speaking, reading, writing, and other linguistically appropriate activities. The introduction of more advanced grammatical structures and a variety of authentic text and multimedia resources will enhance the students' linguistic skills and sociocultural awareness of the Italian speaking world. The development of functional skills is emphasized. Students also acquire the linguistic tools needed to continue learning Italian as it pertains to their fields of interest. Assignment by placement test. Three class hours per week plus Language Learning Center assignments.

LATIN (LTN)

101 & 102. Elementary Latin I & II

1 course unit each

An introduction to basic grammar and vocabulary as well as communication skills in Latin within its cultural contexts. Students will use a variety of authentic text and media resources to acquire and enhance linguistic skills. The first semester is designed for students with no knowledge of or with a weak background in Latin, the second for students with limited but residual previous exposure to Latin. Assignment by placement test. Four class hours per week plus Language Learning Center assignments.

203 & 204. Intermediate Latin I & II

1 course unit each

An accelerated review of basic Latin grammar through reading and other linguistically appropriate activities. The introduction of more advanced grammatical structures and a variety of authentic text and multimedia resources will enhance the students' linguistic skills and sociocultural awareness of the Roman legacy. Students also acquire the linguistic tools needed to continue learning Latin as it pertains to their fields of interest. Assignment by placement test. Three class hours per week plus Language Learning Center assignments.

RUSSIAN (RUS)

101 & 102. Elementary Russian I & II

1 course unit each

An introduction to basic grammar and vocabulary as well as communication skills in Russian within its cultural contexts. Students will use a variety of authentic text and media resources to acquire and enhance linguistic skills. The first semester is designed for students with no knowledge of or with a weak background in Russian, the second for students with limited but residual previous exposure to Russian. Assignment by placement test. Four class hours per week plus Language Learning Center assignments.

203 & 204. Intermediate Russian I & II

1 course unit each

An accelerated review of basic Russian grammar through speaking, reading, writing, and other linguistically appropriate activities. The introduction of more advanced grammatical structures and a variety of authentic text and multimedia resources will enhance the students' linguistic skills and sociocultural awareness of the Russian speaking world. The development of functional skills and communicative ability is emphasized. Students also acquire the linguistic tools needed to continue learning Russian as it pertains to their fields of interest. Assignment by placement test. Three class hours per week plus Language Learning Center assignments.

301, 302. Russian Conversation & Composition

Exercises in spoken and written Russian designed to increase freedom and facility of expression. General review of grammar; readings from contemporary literature and periodicals will be selected for presentation and discussion.

Prerequisite: RUS 204 Intermediate Russian II

Meets general academic requirement W when offered as 302.

303, 304. Advanced Russian Conversation & Composition

Advanced exercises in spoken and written Russian. In-depth studies of idiomatic expressions, increased acquisition of vocabulary, correct usage of grammar, comprehension, and stylistic analysis of contemporary literature.

Prerequisite: RUS 301 or 302 Russian Conversation & Composition

Meets general academic requirement W when offered as 304.

305, 306. Readings in Russian Literature

An introduction to Russian literature from Pushkin to the present with emphasis on developing the students' command of language skills. Selected readings in Russian will include poetry, prose, and drama. Offered in alternate years.

Prerequisite: RUS 204 Intermediate Russian II

Meets general academic requirement L (and W which applies to 306 only).

320, 321. Russian Culture & Civilization

An examination of distinguished works of painting, architecture, sculpture, music, theatre, and film from the early eighteenth to the late twentieth century. An analysis of elements of style and intellectual thought underlying the development of the work of art in its cultural and historical contexts. Through a study of the works of Russia's great creative minds, students will develop familiarity with various styles of artistic expression, including neo-classicism, romanticism, realism, avant-garde, and socialist realism. There will be field trips to art exhibits and guest speakers in class. Offered in alternate years. Taught in English.

Meets general academic requirement A (and W which applies to 321 only).

401. Nineteenth Century Russian Literature in Translation

A study of the development of nineteenth century Russian literature through the works of Pushkin, Gogol, Lermontov, Goncharov, Turgenev, Dostoevsky, and Chekhov. Short stories, novels, poems, plays, and literary criticism will be viewed from the historical, social, political, and philosophical aspects.

Meets general academic requirement L.

402. Twentieth Century Russian Literature in Translation

Short stories, novels, poems, plays, and literary criticism from the pre-revolutionary and post-revolutionary periods, including various literary movements such as symbolism, futurism, acmeism, Socialist Realism, and psychological realism. Works from Gorky to Pasternak, Solzhenitsyn, and other contemporary authors.

Meets general academic requirement L.

SPANISH (SPN)

101 & 102. Elementary Spanish I & II

1 course unit each

An introduction to basic grammar and vocabulary as well as communication skills in Spanish within its cultural contexts. Students will use a variety of authentic text and media resources to acquire and enhance linguistic skills. The first semester is designed for students with no knowledge of or with a weak background in Spanish, the second for students with limited but residual previous exposure to Spanish. Assignment by placement test. Four class hours per week plus Language Learning Center assignments.

203 & 204. Intermediate Spanish I & II

1 course unit each

An accelerated review of basic Spanish grammar through speaking, reading, writing, and other linguistically appropriate activities. The introduction of more advanced grammatical structures and a variety of authentic text and multimedia resources will enhance the students' linguistic skills and sociocultural awareness of the Spanish speaking world. The development of functional skills and communicative ability is emphasized. Students also acquire the linguistic tools needed to continue learning Spanish as it pertains to their fields of interest. Assignment by placement test. Three class hours per week plus Language Learning Center assignments.

301, 302. Spanish Conversation & Composition

Intensive practice of spoken Spanish with emphasis on techniques of oral expression, vocabulary development, and persistent grammatical difficulties. Discussions will be based on contemporary cultural readings, films, and other multi-media materials. Offered every semester.

Prerequisite: SPN 204 Intermediate Spanish II

Meets general academic requirement W when offered as 302.

303, 304. Advanced Spanish Conversation & Composition

Focused work in Spanish composition allowing students to develop creative, professional, and academic writing styles. Emphasis is placed on structure, style, and content as well as grammar. Classic and contemporary texts, films, and other multi-media resources will provide stylistic models as well as a cultural context for writings. Offered every semester.

Prerequisite: SPN 301 or 302 Spanish Conversation & Composition

Meets general academic requirement W when offered as 304.

305, 306. Advanced Spanish Grammar & Translation

Intensive study of advanced Spanish grammar and syntax with a focus on the cultural and linguistic differences between Spanish and English. Through oral and written work, grammatical concepts will be applied to the development of translation skills. Taught in Spanish. Offered in alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement W when offered as 306.

307. Spanish for the Community: Interpreting

With a rapidly growing Latino and Hispanic immigrant population, the Lehigh Valley offers Spanish students a unique opportunity to hone their language skills and cultural understanding. This class blends on-campus preparation and reflection with community-based practical experience, investigation, and exploration. This service-learning course incorporates collaborative projects with organizations working closely with Spanish-speaking clients. To complement the community component, weekly classes will provide a solid introduction to local Hispanic/Latino culture and concerns as well as the basic theories and methodologies of oral interpretation. Offered every year during the fall semester.

Students should expect to commit about 5 hours/week to the community service-learning component of this course.

Prerequisite: One 400-level course in Spanish or approval of instructor

310, 311. Business Spanish

Practice in oral and written Spanish at an advanced level. Compositions, dictations, oral reports, and readings emphasizing Spanish business vocabulary (banking, importing and exporting, stock market, etc.). Offered in alternate years.

Prerequisite: SPN 204 Intermediate Spanish II

Meets general academic requirement W when offered as 311.

320, 321. Civilization of Spain

An introduction to contemporary Spanish life with its intellectual, economic, and social phenomena as well as its regional aspects. The course also surveys the artistic, architectural, and historical heritage of Spain. Given in Spanish. Offered every year during the fall semester.

Prerequisite: SPN 301 or 302 Spanish Conversation & Composition.

Meets general academic requirement H (and W which applies to 321 only.)

322, 323. Civilization of Latin America

An introduction to contemporary Latin-American life with its intellectual, economic, and social phenomena as well as its regional aspects. The course also surveys the artistic, architectural, and historical heritage of Latin America. Given in Spanish. Offered every year during the spring semester.

Prerequisite: SPN 301 or 302 Spanish Conversation & Composition.

Meets general academic requirement D or H (and W which applies to 323 only).

410. Medieval & Renaissance Spanish Literature

A study of representative works of Spanish literature from the Middle Ages through the Renaissance. Emphasis is placed on the literary analysis of the major genres of epic poetry, the fable, the picaresque novel, and pre-Lope de Vega theater. Students will explore theme and theory within the social, historical, philosophical, and political context of the period. Taught in Spanish. Offered in alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement L.

411. Cervantes

A careful reading of Cervantes' *Don Quijote*, the novel that broke stylistically and philosophically into the modern age. Other works by Cervantes will be included, allowing the student to gain a greater understanding of the essential interconnectedness of the different literary genres as well as insight into the politics and ideas of a crucial and defining moment in Spanish history. Taught in Spanish. Offered in alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement L.

412. Spanish Theater in the Golden Age

A study of the development of 16th and 17th century Spanish drama through the works of major playwrights. Emphasis is placed on the structure, language, and major themes of the plays as well as the manner in which they reflect the rapidly changing society of that period. Taught in Spanish. Offered in alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement L.

413. From the Golden Age to the Silver Age

A study of the plays, poetry, and novels of 18th and 19th century Spain, reflecting the social, political, and ideological changes leading up to and throughout the Industrial Revolution. Special attention will be paid to the different roles of writer, narrator, and reader through textual clues. Taught in Spanish. Alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement L.

414. Contemporary Spanish Literature

A study of contemporary texts and development of tools with which to interpret the culture and literature of today's – and tomorrow's – Spain. Emphasis is placed on literary reflections of the changes to the concept of national identity in Spain, spanning the harrowing realization in 1898 that Spain was no longer host to an empire, through the harsh repression and massive emigration under Franco's rule, to the new reality of Spain as home to fast-growing immigrant communities. Taught in Spanish. Offered in alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition.

Meets general academic requirement L.

415. Spanish American Literature I

Reading and discussion of selections from Indoamerican writers of the Pre-Columbian era and from Spanish American writers from the fifteenth through the nineteenth centuries. Emphasis is placed on an understanding of the technical development of the various genres within each literary period as well as on the thematic content of the work as it relates to the period's historical, political, social, and philosophical context. Taught in Spanish. Offered in alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement D or L.

416. Spanish American Literature II

Reading and discussion of poetry, essays, and short stories by Spanish-American writers from the end of the nineteenth century to the present. Emphasis is placed on an understanding of the technical development of the various genres within the period as well as on the thematic content of the work as it relates to the period's historical, political, social, and philosophical context. Taught in Spanish. Alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement D or L.

417. Contemporary Spanish American Novel

An in-depth study of the development of the novel in both the pre- and post- "boom" periods of the Spanish-American narrative. Emphasis is placed on an analysis of the literary techniques and thematic aspects of the works in relation to the various artistic and philosophical movements of the twentieth and twenty-first centuries. Taught in Spanish. Offered in alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement D or L.

418. Hispanic Literature & Film

An analysis of the relationship between literature and film, focusing on texts from Spain and/or Spanish America and their film adaptations. Issues to be discussed include film adaptation as a cultural construct; narrative voice in literature and film; the transformation of the written word to a visual image; and the relationship between politics, literature, and film. Taught in Spanish. Offered in alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement L.

419. Border Literature

An exploration of contemporary narratives by Latino writers in the United States who focus on the border experience, understood as both a geographical and cultural phenomenon. Emphasis will be placed on the analysis of the literary techniques employed in the development of the narrative form within its political, social, and cultural context. Topics include issues of class, ethnicity, and gender. Taught in Spanish. Offered in alternate years.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation & Composition

Meets general academic requirement D or L.

420. Human Rights Literature in the Americas

A literary exploration of the nature of human rights in the Americas through a close examination of representative works of various genres, such as poetry, the short story, the novel, and drama. Emphasis is placed on an understanding of literary theory and technique within the historical, political, and philosophical context of each work. In this way, students will explore thematic issues such as the legal and ethical rights inherent in citizenship within the world and specifically within the Americas with respect to ethnic and religious minorities, women, gays, and political dissidents. Areas of comparison/contrast will include Chile, Argentina, Guatemala, El Salvador, Cuba, and the United States. Taught in Spanish.

Prerequisite: SPN 303 or 304 Advanced Spanish Conversation and Composition

Meets general academic requirement D and L.

500-549. Spanish Seminar***MATHEMATICS***

Department Chair: Associate Professor David Nelson

Professor: P. Dunham, W. Dunham

Associate Professors: Huber, McGuire, Rykken

Assistant Professor: Cha

Lecturer: Dodson

Mathematics courses offered are structured to meet the overlapping needs of students who fall into one or more of these categories: those who wish to develop their appreciation of the power and beauty of mathematics; those who intend to pursue graduate work in mathematics or other related fields; those whose interests will exploit the applications of mathematics in the natural sciences, social sciences, and other quantitative areas; and those who plan to enter the teaching profession in mathematics.

The curriculum is designed so that a course of study can be custom fitted to an individual's goals and interests, while at the same time exposing the student to several of the facets of the mathematical sciences.

In addition, we recognize our responsibility to students with other majors and offer courses designed to equip those students with the mathematical knowledge and tools required and/or useful in their chosen fields of study.

SPECIAL PROGRAMS

Honors Program in Mathematics

At commencement Mathematics awards honors to qualified students. The requirements for honors are: (a) a grade point average in the mathematics major of at least 3.500, (b) an overall grade point average of at least 3.300, and (c) successful completion of nine course units numbered 200 or above (but not to include MTH 215 Discrete Structures), to include at least two of MTH 326 Abstract Algebra, MTH 332 Mathematical Statistics II, MTH 337 Mathematical Analysis.

Teacher Certification

Required courses for students seeking certification for teaching mathematics in the secondary schools include:

- MTH 121 Calculus I
- MTH 122 Calculus II
- MTH 210 Transition to Abstract Mathematics
- MTH 223 Calculus III
- MTH 226 Linear Algebra
- MTH 326 Abstract Algebra
- MTH 331 Mathematical Statistics I
- MTH 342 Advanced Geometry
- Two electives in mathematics chosen from among MTH 227 Differential Equations and courses numbered 300 or above.
- One cognate course in another area which uses a mathematical approach
- MTH 251 Landmarks of Greek Mathematics **OR**
- MTH 252 Landmarks of Modern Mathematics
- CSI 110 Computer Science I **OR**
- Knowledge of a structured programming language.

The student must maintain a 2.500 grade point average in courses for the major in order to meet teacher certification requirements.

PROGRAM REQUIREMENTS

Major Requirements

Required Courses:

- MTH 121 Calculus I
- MTH 122 Calculus II
- MTH 210 Transition to Abstract Mathematics
- MTH 223 Calculus III
- MTH 226 Linear Algebra

Five additional mathematics courses chosen from among MTH 227 Differential Equations and courses numbered 300 or above and to include:

MTH 326 Abstract Algebra **OR**
MTH 337 Mathematical Analysis

In addition, the student must demonstrate knowledge of a structured programming language and complete a course outside of mathematics which involves a mathematical approach—e.g., PHY 121 General Physics I or BUS 333 or 334 Forecasting Models. A major must maintain a 2.000 grade point average in the courses for the major. Students who are planning to attend graduate school are urged to satisfy the language requirement with French, German, or Russian.

Majors will complete a writing intensive course by enrolling in MTH 210 Transition to Abstract Mathematics.

Minor Requirements

Required Courses:

MTH 121 Calculus I
MTH 122 Calculus II
MTH 223 Calculus III
MTH 226 Linear Algebra

At least two more mathematics courses numbered 200 or above.

Knowledge of a structured programming language is also required. The student must maintain a 2.000 grade point average in courses for the minor.

COURSES

101. Topics in Mathematics

Topics selected from various areas of mathematics such as discrete mathematics, logic, number systems, geometry, probability, and graph theory. The course is designed to give the student an appreciation of mathematics as an integral part of our culture as well as applications to various other disciplines.

Meets general academic requirement G.

104. Statistical Methods

An introduction to statistical methods, including descriptive statistics, sampling, estimation, hypothesis testing, correlation and regression, and the chi-square distribution. Three meetings and one laboratory per week. Students may not receive credit for both MTH 104 Statistical Methods and MTH 144 Introduction to Statistical Analysis. Students who have completed MTH 121 Calculus I are required to have the permission of the department.

Meets general academic requirement G

114. Fundamentals of Mathematics

A study of fundamental mathematical principles underlying the concepts of number and shape. Topics include number systems, number theory, measurement systems, geometry, and functions with emphasis on applications and problem solving. Four meetings per week.

Prerequisite: EDU 101 Foundations of Education

Meets general academic requirement G.

116. Symmetry & Shape: Introduction to Geometry

An introduction to the geometric concepts underlying elementary mathematics: properties of circles, polygons and polyhedra, measurement systems and indirect measure, scale and proportion, symmetry, congruence, informal Euclidean geometry, geometric constructions, transformational geometry. Applications feature mathematical patterns found in art and nature: the golden ratio, Platonic solids, tessellations in the plane, frieze and wallpaper patterns, scale drawings, 3-D drawing, one- and two- point perspective, and viewing point.

Meets general academic requirement G.

121. Calculus I

Differentiation of algebraic and transcendental functions, application of the derivative to related rates, max-min problems, and graphing. Introduction to integration, the Fundamental Theorem of Calculus. Four meetings per week.

Prerequisite: 3.5 years of high school mathematics

Meets general academic requirement G.

122. Calculus II

A continuation of MTH 121 Calculus I. Applications of the integral, integration techniques, infinite sequences and series, L'Hôpital's Rule, improper integrals. Four meetings per week.

Prerequisite: MTH 121 Calculus I

Meets general academic requirement G.

144. Introduction to Statistical Analysis

Fundamental problems and principles of probability, discrete and continuous distributions and random variables, sampling distributions, parameter estimation and confidence intervals, hypothesis testing, regression analysis, analysis of variance, and non-parametric statistics. Students may not receive credit for both MTH 104 Statistical Methods and MTH 144 Introduction to Statistical Analysis. Three meetings and one laboratory per week.

Prerequisite: MTH 121 Calculus I

Meets general academic requirement G.

210. Transition to Abstract Mathematics

An introduction to abstract mathematical thought with emphasis on understanding and applying definitions, writing arguments to prove valid statements, and providing counterexamples to disprove invalid ones. Topics may include logic, introductory set theory, and elementary number theory, but the focus is on the process of reasoning rather than any particular subject or subdiscipline. It is strongly recommended that mathematics majors complete this course by the end of the sophomore year.

Prerequisite: MTH 122 Calculus II

Meets general academic requirement W

215. Discrete Structures

Topics from logic, combinatorics, recursion, relations, trees and graphs and finite state automata, computability and algorithm design.

223. Calculus III

Geometry of the plane and space including vectors and surfaces. Multivariable calculus, including partial derivatives, Taylor's Theorem in two variables, line and surface integrals, and Green's Theorem. Four meetings per week.

Prerequisite: MTH 122 Calculus II

226. Linear Algebra

Matrices and systems of linear equations, determinants, real vector spaces and inner product spaces, linear transformations, eigenvalue problems, applications. Four meetings per week.

Prerequisite: MTH 122 Calculus II

227. Differential Equations

A study of the theory, methods of solution, and applications of differential equations and systems of differential equations. Topics will include the Laplace Transform, some numerical methods, and applications from the physical sciences and geometry.

Prerequisite: MTH 122 Calculus II

251. Landmarks of Greek Mathematics**0.5 course unit**

This course examines selected masterpieces of classical mathematics, including Euclid's *Elements*, Archimedes' determination of the surface area of a sphere, Heron's formula for triangular area, and Ptolemy's table of chords. Emphasis will be placed on the brilliance of the mathematics and the reverberations of these ideas down to the present age. Does not satisfy a major/minor requirement.

Prerequisite: one course in calculus

252. Landmarks of Modern Mathematics**0.5 course unit**

This course examines selected mathematical masterpieces from the Renaissance to the dawn of the twentieth century. Theorems to be considered include those of Cardano, Newton, the Bernoullis, Euler, Gauss, and Cantor. Besides the mathematics, the course focuses on the context in which the theorems were discovered and the lives of the discoverers. Offered in alternate years. Does not satisfy a major/minor requirement.

Prerequisite: one course in calculus

314. Applied Mathematics & Modeling

Models describing physical and economic conditions will be constructed, analyzed, and tested. The computer will be used in model verification. Offered in alternate years.

Prerequisite: MTH 227 Differential Equations

318. Operations Research

Linear programming, the transportation model, dynamic programming, decision analysis, game theory, and inventory and queuing models. Offered in alternate years.

Prerequisite: MTH 226 Linear Algebra

326. Abstract Algebra

A study of the algebraic structures of groups, rings, fields, and integral domains. Offered in alternate years.

Prerequisite: MTH 210 Transition to Abstract Mathematics and MTH 226 Linear Algebra

331. Mathematical Statistics I

Probability, discrete and continuous random variables, the binomial, normal, Poisson, chi-square, t, and F distribution. Offered in alternate years.

Prerequisite: MTH 210 Transition to Abstract Mathematics and MTH 223 Calculus III

332. Mathematical Statistics II

A continuation of MTH 331 Mathematical Statistics I. Topics will include estimation, hypothesis testing, regression, correlation, and analysis of variance. Offered in alternate years.

Prerequisite: MTH 331 Mathematical Statistics I.

334. Numerical Analysis

The numerical solutions of equations, numerical integration and differentiation, systems of equations, curve fitting, numerical solutions of ordinary and partial differential equations. Offered in alternate years.

Prerequisite: MTH 226 Linear Algebra and CSI 110 Computer Science I

337. Mathematical Analysis

Rigorous treatment of the real number system and functions of one variable, the Riemann integral, and proof of the Fundamental Theorem of Calculus. Offered in alternate years.

Prerequisites: MTH 210 Transition to Abstract Mathematics and MTH 223 Calculus III

342. Advanced Geometry

An axiomatic approach to Euclidean geometry. The exploration of non-Euclidean geometries, including hyperbolic geometry. The study of transformational geometries. Offered in alternate years.

Prerequisite: MTH 210 Transition to Abstract Mathematics

345. Combinatorics & Graph Theory

This advanced course in discrete mathematics emphasizes counting and finite structures. The material is taken from three broad areas of combinatorics: counting theory, graph theory, and design theory. Topics include fundamental laws of counting, generating functions, recursion, partitions, existence and optimization problems, graphs and digraphs, networks, the relationships between graphical invariants, lattices, simple game theory, Latin squares, design and coding theory, and Ramsey Theory.

Prerequisite: MTH 210 Transition to Abstract Mathematics

MEDIA AND COMMUNICATION (COM)

Department Chair: Associate Professor Lora Taub

Professor: Jansen

Associate Professors: Sullivan, Tafler

Assistant Professors: Kahlenberg, McEwan, Pooley, Stahl

Visiting Assistant Professor: Ranieri

The media and communication major provides a systematic scholarly approach to the analysis of media and society. Knowledge of how media and media industries function is essential for responsible citizen participation in a democratic society. Courses in the major provide students with conceptual and analytic tools to assess the social impacts of media as well as to explore media production as a form of creative expression. All courses are informed by concerns for the value-related issues and controversies raised by media practices. The major prepares students for graduate study and provides education for careers in journalism, broadcast media, publishing, advertising, public relations, political advocacy, media law, teaching, film, video, and new media production. An optional internship permits students to explore the relevance of their studies to communication practices.

Honors Program

The Honors Program allows qualified students the opportunity to enrich their experiences in communication theory, history, and practices. Honors students must participate in the Media and Communication Honors Seminar (COM 480 or 481), which usually meets once a year, and produce an original research or production project which they will present to the faculty and their peers in a colloquium setting. They will also have opportunities to participate in a program of periodic lectures and field trips. To qualify, students must maintain at least a 3.600 grade point average in the major and a 3.500 grade point average overall. Participation in the Honors Program is not automatic; qualified students must prepare a written application. Applications are subject to faculty review. Interested students should contact the Director of the Honors Program regarding application procedure and deadlines.

Major Requirements

Majors will complete a minimum of nine courses including the following:

COM 201 or 202 Media & Society

COM 230 or 231 Documentary Research

COM 301 or 302 Media Theory & Methods

Six electives within the major, including at least one course from each of the three distribution areas: Discovery, Structure, Practice. At least three of these electives must be numbered 300 or above.

COM 201 or 202 Media & Society and COM 230 or 231 Documentary Research will normally be completed prior to fulfilling additional major requirements. These courses do not count towards fulfillment of distribution requirements in the major.

Distribution Areas

DISCOVERY

These introductory courses emphasize the breadth of media and communication. They provide an overview of different sub-specializations within the field.

STRUCTURE

These courses use media and communication theories and methodologies to provide in-depth exploration of significant media and communication institutions, traditions, or cultural forms.

PRACTICE

These courses provide students with opportunities to become producers, not merely consumers, of print, video, and audio information. Each course gives students in-depth opportunities to put theory into practice in research, writing, or electronic production.

INTRODUCTORY COURSES

101. Introduction to Media & Communication

Uses a topical approach to explore issues and controversies raised by the powerful presence of mass media in contemporary society. Provides students with analytical tools necessary to think critically and self-consciously about media. Develops understanding of the forces which shape mass media, their products, and their effects on society. Topics that may be explored include children and television, violence in the media, media and social inequality, news, audience response, and resistance to mediated messages. This course does not satisfy a major requirement or elective.

Meets general academic requirement B.

201, 202. Media & Society

Examines influences of mass media on participatory democracy and its cultural forms. Introduces students to social science approaches to the study of communication phenomena, including the logic of inquiry, standards of evidence, and grounds for making claims about communicative behaviors. Explores landmark studies within the discipline. Topics may include media effects, persuasion, cultivation theory, agenda-setting, and opinion leadership.

Meets general academic requirement B (and W which applies to 202 only).

230, 231. Documentary Research

Explores the American tradition of social documentary, focusing on milestone projects, including the work of James Agee and Walker Evans, Dorothea Lange, William Carlos Williams, and Robert Coles. Both visual and textual modes of production are examined. Special focus is given to new digital forms of representation and their impact on production, distribution, and consumption. Framing this investigation are the ethical issues that emerge when rendering and representing individuals' lives. Students are introduced to the fundamental skills of investigative research, interviewing, gathering and interpreting information, and using print and electronic archives. Students research and produce their own multi-media documentary project.

Prerequisite: COM 201 or 202 Media & Society

Meets general academic requirement W when offered as 231.

301, 302. Media Theory & Methods

Explores classic and contemporary media theories and research methodologies, including the historical and philosophical foundations of paradigm formation in media research, the social and institutional contexts that led to the emergence of the communication discipline, and current controversies within the field. This course builds upon principles and concepts introduced in Media & Society.

Prerequisites: COM 201 or 202 Media & Society and COM 230 or 231 Documentary Research

Meets general academic requirement W when offered as 302.

DISCOVERY

208, 209. Communication in the Global Community

Provides a comparative analysis of the principles guiding the organization, development, and operations of media systems in different political, economic, social, and cultural contexts. Considers the global expansion of mass media and the increasing connections of world citizens in a "global community." Compares the production, distribution, reception, and effects of mass mediated messages in countries around the world. Topics explored include media systems and their social and political contexts, media and revolution, global media intersections with local audiences, and politics of international news and entertainment flows.

Meets general academic requirement W when offered as 209.

212, 213. New Information Technologies

Explores the problems and prospects that surround the introduction and diffusion of new information technologies such as computers, the internet, and digital media in the household, workplace, and market. The social and cultural impact of these technologies on personal privacy, self-identity, information access, and global citizenship are considered. Develops an understanding and appreciation of the relations between science, technology, economics, culture, and law. Selected topics include technological utopianism, virtual communities, information markets, the gendering of technologies, the politics of netiquette, and computers and productivity in the workplace.

Meets general academic requirement W when offered as 213.

218, 219. Patriotism & the Press

This course looks at the history of the contested relationship between patriotism and the press. It begins from the Civil War, the first American conflict in which the press played a significant and controversial role, and continues to contemporary arguments over the media's appropriate role in the conflicts involving international terrorism. Among the questions to be explored are the public's right to know, reporters' access to the battlefield, and government censorship.

Meets general academic requirement W when offered as 219.

225, 226. Journalistic Traditions

Introduces students to the great traditions of interpretive, documentary, and advocacy journalism and photojournalism. Includes analysis of exemplary works in the tradition and provides some opportunities to develop skills through individual projects.

Meets general academic requirement W when offered as 226.

240, 241. Methods of Film & Video Analysis

Introduces different strategies and different approaches for analyzing film and video texts, including formal, narrative, semiotic, psychoanalytic, social/cultural, and feminist. Students will develop an understanding of the grammar, vocabulary, and conventions of film and video production and the factors that shape viewers' reception.

Meets general academic requirement A (and W which applies to 241 only).

242, 243. Twentieth Century Media: Film, Radio, & Television

Analyzes the historical development of radio, film, and television genres, technologies, and formats and considers the cultural, economic, political, and social climates in which they evolved.

Meets general academic requirement H (and W which applies to 243 only).

251. Fundamentals of Visual Communication

Introduces basic concepts of time-based visual media with an emphasis on the perception and experience of moving images, kinesics, and the structure and aesthetics of cinematic language. Students will learn how to work with cameras, audio-recording equipment, and post-production facilities.

STRUCTURE

210, 211. Media: Legal & Constitutional Issues

Introduces the philosophy, history, development, and current interpretations of U.S. media law; explores constitutional rights, laws, precedents, and public concerns which guide U.S. media, the public, the courts, regulatory agencies, and policymakers.

Prerequisite: COM 101 Introduction to Communication or COM 201 or 202 Media & Society

Meets general academic requirement W when offered as 211.

312, 313. Media Industries

Considers the forces (legal, political, economic, historical, and cultural) that shape what we watch on television, read in books, or hear on the radio. Explores a wide range of print and electronic media industries as well as developing media like the internet. Economic and critical analysis is used to examine both the institutional forces and individualized decisions that ultimately shape the content and format of mass media messages. Selected topics include media conglomeration, target marketing, media integration and digital television, and globalization of media markets.

Prerequisite: COM 101 Introduction to Communication or COM 201 or 202 Media & Society

Meets general academic requirement W when offered as 313.

314, 315. Audience Analysis

Examines the concept of audiences from a variety of qualitative and quantitative research perspectives: as "victims," users, subcultures, and market commodities. Television ratings, public opinion polls, and other strategies for measuring audience feedback are analyzed and assessed.

Meets general academic requirement W when offered as 315.

316, 317. Mass Persuasion & Propaganda

Examines the historical development, social roles, communicative techniques, and media of propaganda. Explores the evolution of religious, political, and commercial forms of persuasion; the rise and eclipse of theories of mass society; and the emergence of narrow-casting and target marketing. Case studies are drawn from war-time propaganda, political campaigns, advertising, and news.

Meets general academic requirement B (and W which applies to 317 only).

344, 345. Documentary Film

Examines documentary and other reality-based modes of film and video production and the assumptions these forms make about truth and authenticity and how they shape our understandings of the world. Both historical and contemporary forms will be considered.

Meets general academic requirement A (and W which applies to 345 only).

346, 347. Exploratory Cinema

Examines the origin and growth of “avant-garde” cinema. Traces the history of film and video art from the early 1920’s to the present, focusing on its structural evolution, thematic shifts, coexistence with commercial cinema, and its impact on contemporary media.

Meets general academic requirement A or H (and W which applies to 347 only).

370, 371. Popular Culture & Communication

Traces the development of popular forms with emphasis on the ways that social class has structured access, use, and creation of cultural artifacts and practices. Topics explored include both commercial and non-commercial forms of amusements, leisure, and entertainment.

Prerequisite: COM 101 Introduction to Communication or COM 201 or 202 Media & Society recommended

Meets general academic requirement W when offered as 371.

372, 373. Race & Representation

Explores the social construction of the concept of race and barriers to communication erected by prejudice, discrimination, and marginalization of minority voices. Examines topics in multicultural, cross-cultural, and interpersonal communication as well as analysis of documents, personal narratives, and media images. Primary emphasis is placed upon African-American experience in the U.S.

Meets general academic requirement D (and W which applies to 373 only).

374, 375. Gender, Communication, & Culture

Examines gendered forms of communication: differences in how women and men are socialized to think, talk, and make sense in American culture; the implications of these differences for communication; the ways race and social class intersect with these differences; and the ways commercial mass media both cultivate and undermine gendered forms of communication.

Prerequisite: COM 101 Introduction to Communication or COM 201 or 202 Media & Society recommended

Meets general academic requirement W when offered as 375.

378, 379. Sport, Culture, & Media

Explores the cultural artifacts, historical developments, and related systems of power that comprise sport media. Students observe, document, and analyze mediated sport and its prominence in our cultural environment. Includes analysis of the conventions of sports journalism (electronic and print) and transformations in those arenas.

Prerequisite: COM 101 Introduction to Communication or COM 201 or 202 Media & Society recommended

Meets general academic requirement W when offered as 379.

440, 441. Film Theory & Criticism

Investigates the principal theories of film, considering the film text as a mode of communication, as an art form, and as an ideological practice. Explores how film and video control the production of pleasure and meaning during reception. Students view a variety of films representative of specific cultural and historical contexts and are introduced to relevant theories and their application.

Prerequisite: COM 240 or 241 Methods of Film & Video Analysis or COM 344 or 345 Documentary Film or COM 346 or 347 Exploratory Cinema

Meets general academic requirement W when offered as 441.

442. Children & Communication

This course investigates the meanings of media in children’s lives. The course adopts a cultural historical approach to understanding the role of media in children’s cognitive, social, and moral development. Looking at children’s interactions with media artifacts, the course considers how childhood is constituted by the languages and images of media and situates these interactions within the broader political economic context constructing the child consumer. Children’s media studied include television programs, video and computer games, films, books, and toys.

480, 481. Communication Honors Seminar

Each year this course will have a different thematic focus which will allow honors students to engage with faculty and visiting lecturers in challenging dialogues and research experiences, culminating in the production and presentation of an original research project or creative work based on the seminar theme. Provides students with extensive opportunities to work closely with faculty mentors in developing their research project and creative work.

Enrollment limited to Honors Program students during the senior year or by permission of faculty instructor.

Meets general academic requirement W when offered as 481.

PRACTICE

216, 217. Communication & Public Relations

Explores public relations issues within organizational contexts, emphasis on communication theory and research into public relations practices. Topics include the origins and development of public relations, its role in society, principles of public relations theory and practice, and the ethical issues raised by various philosophies and practices of public relations.

Prerequisite: COM 101 Introduction to Communication or COM 201 or 202 Media & Society recommended

Meets general academic requirement W when offered as 217.

321, 322. Writing for the Media

Provides intensive writing experiences in a variety of formats. Introduces students to the different conventions of writing for print media, radio, and television. Class structure, assignments, and timed writing exercises are designed to simulate a working media environment.

Prerequisite: COM 101 Introduction to Communication or COM 201 or 202 Media & Society

Meets general academic requirement W when offered as 322.

334, 335. Health Communication

Examines interpersonal as well as mediated dimensions of health communication, including theories and case studies that address issues in physician and patient communication; gender, race, and cultural constituents in health communication; techniques for the production, distribution, and assessment of health-care information; the design and implementation of public health campaigns; and the use of communication technologies in the production of health communications. Emphasizes writing.

Meets general academic requirement W when offered as 335.

336, 337. Environmental Communication

Explores theories, models, and strategies for production and assessment of environmental communications. Examines environmental media and campaigns and provides students with skills to identify and solve problems in environmental communications and in the production of environmental media. Emphasizes writing.

Meets general academic requirement W when offered as 337.

338, 339. Organizational Communication

Examines communication patterns operating in large-scale organizations. The constituents, constraints, values, practices, and media of corporate cultures are investigated from historical, cross-cultural, and contemporary perspectives.

Meets general academic requirement W when offered as 339.

351. Video Production

Refines an understanding of video/television concepts and operations through the application of advanced production techniques. Provides hands-on experience beginning with the development of a professional project, treatment, script, and storyboard. Focusing on production tools and skills, class workshops, and outside exercises that facilitate becoming comfortable with camera and editing equipment and with the overall production process. Conceiving, coordinating, shooting, and editing the project, production teams will encounter real-time pressure and problem-solving situations.

Prerequisite: COM 251 Fundamentals of Visual Communication

361. Radio Production

Introduces the tools, techniques, and principles of radio production. Students develop awareness of sound, the ability to structure information on the radio, and the capacity to sustain attention and build an audio documentary. Students will plan, produce, and evaluate audio projects in a variety of modes, including news, documentary, dramatic, and commercial.

365. Hypermedia

Focuses on emerging electronic interactive media. Through an exploration of cyberspace, virtual reality, and electronic multimedia applications such as video game playing, the class examines conceptual aspects of interactive media and its production. Each student will conceive, design, and produce an interactive project in a digital environment.

Prerequisite: COM 230 or 231 Documentary Research or permission of instructor

431. Documentary Field Work

Develops advanced skills in documentary inquiry and practice. Provides tools and opportunities for developing skills in interviewing for archival, journalistic (print and electronic), social scientific, and administrative purposes. Course is organized around the design and development of individual or group documentary projects in selected media. Completed project(s) will be exhibited in some campus or public forum, e.g. submitted to campus newspaper, aired on campus radio or television, or displayed on the department website.

Prerequisite: COM 230 or 231 Documentary Research and instructor permission

467. Advanced Electronic Media Production

Students explore the convergence of video and digital media while studying the problems of constructing narrative and documentary texts within emerging experimental formats. Through their research-production projects, students learn to work with more advanced visual and organizational concepts. Legal and ethical issues involved in media production are considered. Students present ongoing work and final projects in either an online or broadcast venue.

Prerequisite: COM 351 Video Production or COM 365 Hypermedia

960. Communication Internship

Designed to provide both an educational experience and an opportunity to work with professionals in practical preparation for a career; the internship includes a significant academic (written and/or production) component. Under faculty supervision, students will serve as interns with newspapers, television and radio stations, advertising agencies, public relations firms, publishers, health, environmental, sports, and human and public service organizations. Students must have completed the sophomore year. Does not count toward the nine courses required by the major.

Prerequisite: COM 230 or 231 Documentary Research and instructor permission

MUSIC (MUS)

Department Chair: Associate Professor Ted Conner

Professor: Ovens

Associate Professor: Follet

Assistant Professor: Helm

Lecturer: Slavin

Pianist-in-Residence: Petit

The major in music develops basic musical skills expected of any serious musician. It will prepare students for advanced work in performance, composition, musicology, theory, music librarianship, church music, arts administration, music sales and

publishing, music therapy, college and private teaching, and graduate study. The bachelor of arts with a major in music may be sufficient for initial positions in some of these areas. The music major may be effectively combined with other majors, minors, or special combinations of courses, such as languages, literatures, and cultures; business administration; theatre and dance; and media and communication, to enhance the opportunities for specific employment or graduate programs.

On its own terms, the music program is designed to provide students with a broad and comprehensive background in music, assuring the continuation of learning and achievement, whether in a formal graduate program or not. All of the courses required for the minor are also part of the major.

Students majoring in music require preparation in three distinct areas of study: music theory/composition, music history, and performance. In music theory/composition courses, students develop an understanding of the logical relations that exist between notes in melodies, counterpoint, chords, and harmonic progressions. Students explore the repertoire of various historical periods and genres as well as the cultural context that lead to their development in music history. The focus of applied music is the growth of technical and interpretive skills on a specific instrument, including voice.

Music Education

There are currently a limited number of music majors who are also participating in the teacher certification program at Moravian College. The requirements for teacher certification are available upon request from the Department of Music. Students intending to enter the music education certification program in collaboration with Moravian College **must** register for MUS 111 Music Theory I during their first semester. It is extremely unlikely any student will be able to complete their studies in four years if they do not follow this advice.

PROGRAM REQUIREMENTS

Major Requirements

The music major offers three areas of concentrated study: Performance, Music Theory/Composition, and Music History. Each of the concentrations includes the same core curriculum plus an area of specialization. The core curriculum includes three courses in music theory, two courses in music history, and four semesters of applied study on the student's primary instrument. Completion of the core curriculum will ensure that every music major receives a thorough grounding in the three disciplines that comprise the study of music.

Core Curriculum

- MUS 111 Music Theory I
- MUS 112 Music Theory II
- MUS 211 Music Theory III

MUS 221 Music History I: Medieval, Renaissance, Baroque
MUS 222 Music History II: Classic, Romantic, 20th Century
MUS 901 Individual Applied Music I
MUS 902 Individual Applied Music II
MUS 903 Individual Applied Music III
MUS 904 Individual Applied Music IV

In addition to the core curriculum, each music major will complete three course units in one of the three concentrations: Performance, Music Theory/Composition, or Music History.

Performance Concentration

Students selecting the performance concentration will choose three course units in electives from the following areas:

One course unit in performance on the student's primary instrument:

MUS 905 Individual Applied Music V
MUS 906 Individual Applied Music VI

One course unit numbered between 200 and 299 in music theory/composition from:

MUS 212 Form & Analysis
MUS 213 Counterpoint
MUS 214 Techniques of the Avant Garde

One course unit in music history from:

MUS 224 History of the Symphony
MUS 225 World Music
MUS 226 American Music
MUS 227 Opera
MUS 228 History of Jazz
MUS 320-326 Music History: Selected Periods
MUS 330 Music History Seminar

Students intending to continue past the Bachelor's Degree in Performance should perform a senior recital. This recital should be planned in consultation with the student's applied music teacher.

Music Theory/Composition Concentration

Students selecting the music theory/composition concentration will choose three course units in electives from the following list. One of the courses must be MUS 212 Form & Analysis, MUS 213 Counterpoint, or MUS 214 Techniques of the Avant Garde:

MUS 137 Introduction to Electronic Music
MUS 212 Form & Analysis
MUS 213 Counterpoint
MUS 214 Techniques of the Avant Garde

MUS 311 Orchestration
MUS 312 Jazz Improvisation
MUS 315 Composition Workshop I
MUS 316 Composition Workshop II

Students intending to continue past the Bachelor's Degree in composition should prepare a portfolio of works during their junior and senior years. Students planning on continuing on in Music Theory should prepare a major research paper in consultation with a member of the music faculty during the senior year.

Music History Concentration

Students selecting the music history concentration will choose three course units in electives from the following areas:

Two course units in music history from:

MUS 224 History of the Symphony
MUS 225 World Music
MUS 226 American Music
MUS 227 Opera
MUS 228 History of Jazz
MUS 320-326 Music History: Selected Periods

One course unit in music history from:

MUS 330 Music History Seminar

Students intending to continue past the Bachelor's Degree in Music History should prepare a major research paper in consultation with a member of the music faculty during the senior year.

In addition to the core curriculum and concentration requirements, it is strongly recommended that all music majors participate in ensemble work for at least four semesters.

Minor Requirements

Students minoring in music must complete 5 courses as follows:

MUS 111 Music Theory I
MUS 112 Music Theory II
MUS 221 Music History I: Medieval, Renaissance, Baroque **OR**
MUS 222 Music History II: Classic, Romantic, 20th Century
Any other course in music history
MUS 901-908 Individual Applied Music (two semesters) **OR**
MUS 910 Class Applied Music (two semesters)
Membership in an appropriate College ensemble is strongly advised in conjunction with this applied study.

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MUS 101 Introduction to Music and MUS 104 Workshop in Composition & Improvisation cannot be enrolled to fulfill any major or minor requirements, although they may be useful for some students in preparing for required courses in the major and minor.

The Department of Music encourages students to take whatever music courses interest them. Historical courses are open to students without prerequisite. Applied music may be completed at any level, from beginning to advanced. Courses in electronic music, utilizing advanced equipment, will be of special interest to some.

More advanced study may be undertaken in various areas in music through independent study following requisite preparation and with the permission of the appropriate instructor. Courses in addition to those required for the major may be completed to better prepare for graduate study or to meet certification requirements for public school music teaching. Many advanced courses in music theory and history are offered in alternate years.

COURSES

101. Introduction to Music

A basic music appreciation course, this one-semester survey examines musical styles from the Renaissance to the Twentieth Century with emphasis on the Classic and Romantic eras. Highly recommended for all liberal arts students; no music background needed. Reading and listening assignments; concert attendance and reviews. May not be counted toward the music major or minor.

Meets general academic requirement A.

104. Workshop in Music Composition & Improvisation

A "hands-on" introductory experience in music composition and improvisation for the non-major, providing students a basic foundation in the elements of music in order to allow them to explore music as expression and structure. Various notational languages will be used as well as the basic functions of conventional musical notation. The emphasis will be on developing improvisational experiences using traditional and non-traditional instruments. Designed for the musically inexperienced student. Class participation mandatory with a final project of a composition or an improvisation. May not be counted toward the music major or minor.

Meets general academic requirement A.

111. Music Theory I

A basic course in the materials and structural elements of tonal music: scales, intervals, chords, and the principles of voice-leading and harmonic progression. Development of keyboard skills, sight-singing abilities, and aural perception. No prerequisites, but the ability to read music is assumed.

Meets general academic requirement A.

112. Music Theory II

Continuation of MUS 111 Music Theory I. Use and analysis of non-chord tones, seventh chords, secondary functions, modulation, and small forms. Further development of keyboard, sight-singing, and aural skills.

Prerequisite: MUS 111 Music Theory I or exam

137. Introduction to Electronic Music

A study of the development and practice of electronic music: basic acoustics, the tape studio, musique concrete, tape manipulation, electro-acoustic instruments, and modulation techniques. Analysis of electronic

music literature and development of an understanding of the synthesizer and associated electronic instruments. Individual and class applications of basic synthesizer techniques in shaping and sound structures. Reading and listening assignments, composition projects.

Meets general academic requirement A.

211. Music Theory III

Chromatic harmony: altered chords, modulation to distant keys. Analysis, figured-bass realization. Introduction to two-part counterpoint in the style of Bach. Dictation, sight-singing, keyboard skills.

Prerequisite: MUS 112 Music Theory II

212. Form & Analysis

A survey of musical forms from the smallest units of sectional forms (motive, phrase) through binary, ternary, rondo, and sonata forms. Constant analysis of music of all periods embodying various structural principles. Reading and listening assignments; semester project.

Prerequisite: MUS 211 Music Theory III

213. Counterpoint

A study of counterpoint focusing on the contrapuntal practices of the Renaissance and Baroque periods. Analysis and written exercises leading to several composition projects. Readings from historical treatises; secondary source readings and listening assignments.

Prerequisite: MUS 211 Music Theory III

214. Techniques of the Avant Garde

A study of the compositional techniques and styles of the twentieth century. Analysis and written exercises leading to compositional projects in a variety of styles. Reading and listening assignments; semester project.

Prerequisite: MUS 211 Music Theory III

221. Music History I: Medieval, Renaissance, Baroque

The history of musical style from the early Christian period up to the mid-Eighteenth Century: Gregorian chant repertory, the development of polyphony, the Renaissance flowering of sacred and secular vocal music, the rise of national styles in opera and instrumental music, and the culmination of the Baroque period in the music of Bach and Handel. Reading and listening assignments; concert attendance and reviews; semester project. Required of majors.

Meets general academic requirement A and W.

222. Music History II: Classic, Romantic, 20th Century

Pre-classical styles and schools; the Viennese classicists (Haydn, Mozart); Beethoven and the Romantic expansion of form and technique; beginnings of modernism (Debussy, Stravinsky); and later developments to mid-century and beyond. Reading and listening assignments; concert attendance and reviews; semester project. Required of majors.

Meets general academic requirement A and W.

224. History of the Symphony

A study of symphonic music ranging from Haydn to Stravinsky. Composers may include Mozart, Beethoven, Mahler, Brahms, Berlioz, and others. Readings and listening assignments; semester project.

Meets general academic requirement A.

225. World Music

A study of musics from non-Western cultures. Topics may include the culture, music, and musical-theoretical systems of India, China, Japan, Africa, and Latin America. Readings and listening assignments; performance projects and semester project.

Meets general academic requirement A or D.

226. American Music

A survey of the vernacular (popular) and cultivated (classical) traditions in American music from the Colonial period through the twentieth century; sacred and secular vocal and instrumental music, the

influence of European and African practices in concert music and jazz, and the rise of musical institutions in the context of our developing nation. Reading and listening assignments, concert attendance and reviews, semester project. Offered in alternate years.

Meets general academic requirement A.

227. Opera

A survey of the literary and musical aspects of opera from Monteverdi to Berg with greatest attention to repertory works by Gluck, Mozart, Rossini, Beethoven, Weber, Wagner, Verdi, Puccini, Debussy, Strauss, and Berg. Reading, listening, and viewing assignments; field trips to performances; reviews; semester project. A music background will be helpful. Offered every three years.

Meets general academic requirement A.

228. History of Jazz

This survey of a uniquely American art form traces jazz roots and origins from late-Nineteenth Century blues and ragtime: the first recordings; the great soloists, composers, and bands of the 1920s; the "swing era" of the 1930s and '40s; "modern jazz" of the late '40s through the 1960s; and new developments over the last twenty years. Reading and listening assignments; concert attendance and reviews.

Meets general academic requirement A.

311. Orchestration

0.5 course units

A systematic study of the capabilities of the instruments of the orchestra in musical composition. A thorough understanding of these capabilities will be mastered through a study of selected works for solo instruments, chamber works, and the study of orchestral literature. Readings and listening assignments; analysis and written exercises; semester project.

Prerequisite: MUS 211 Music Theory III

312. Jazz Improvisation

0.5 course units

A study of improvisational techniques from the Jazz tradition. Readings and listening assignments; analysis and performance projects; semester project.

Prerequisite: MUS 112 Music Theory II

315. Composition Workshop I

0.5 course units

A study of composition in a variety of styles based on the interests of the students and the instructor. Readings and listening assignments; intensive written exercises and compositional projects.

Prerequisite: instructor permission

316. Composition Workshop II

0.5 course units

A continuation of Composition Workshop I in which students will explore a variety of compositional styles and genres. Readings and listening assignments; intensive written exercises and compositional projects.

Prerequisite: instructor permission

320-326. Music History: Selected Periods

An intensive study of music from one of the following periods: Medieval, Renaissance, Baroque, Classical, Romantic, or Twentieth Century. The course will include analysis of the repertoire and the cultural context that lead to its development. Readings and listening assignments; analysis and writing assignments; semester project.

Prerequisite: MUS 211 Music Theory III and MUS 221 Music History I: Medieval, Renaissance, Baroque and MUS 222 Music History II: Classic, Romantic, 20th Century

330. Music History Seminar

An intensive study of an area in music history agreed upon by the students and instructor. The course will serve as preparation and guidance for research and a major paper.

Prerequisite: MUS 211 Music Theory III and MUS 221 Music History I: Medieval, Renaissance, Baroque and MUS 222 Music History II: Classic, Romantic, 20th Century

- 921. Beginning Vocal Techniques** **0.25 course units**
Vocal technique development for students involved in the Moravian Music Education Certification Program.
Prerequisite: instructor permission
- 922. Beginning Woodwind Techniques** **0.25 course units**
Woodwind technique development for students involved in the Moravian Music Education Certification Program.
Prerequisite: instructor permission
- 923. Beginning Brass Techniques** **0.25 course units**
Brass technique development for students involved in the Moravian Music Education Certification Program.
Prerequisite: instructor permission
- 926. Beginning Percussion Techniques** **0.25 course units**
Percussion technique development for students involved in the Moravian Music Education Certification Program.
Prerequisite: instructor permission
- 927. Beginning Piano Techniques** **0.25 course units**
Piano technique development for students involved in the Moravian Music Education Certification Program.
Prerequisite: instructor permission
- 928. Beginning Music Technology Techniques** **0.25 course units**
Music technology technique development for students involved in the Moravian Music Education Certification Program.
Prerequisite: instructor permission

Applied Music

Study in voice, piano, organ, and the various string, brass, woodwind, and percussion instruments. One 45 minute lesson per week for 13 weeks and a minimum of five hours practice per week. Attendance at recitals and concerts required. Department permission required. An additional fee is charged for this instruction and is not refundable following the add-drop period. Applied music may not be enrolled on a pass-fail basis. It may be enrolled as audit only when it constitutes an overload, when it is not the initial term of applied music study, and with instructor and department head permission. Two semesters of Applied Music may be used to complete the general academic requirement in the Fine Arts (A). For full-time students there is no overload fee charged for course units resulting from applied music.

- 901-908. Individual Applied Music** **0.5 course units**
Individual lessons. Fee: \$400.
- 911-918. Individual Applied Music – Second Area** **0.5 course units**
Individual lessons in another area. Fee: \$400.
- 910. Class Applied Music** **0.5 course units**
Class study in voice or piano, as available. Fee: \$200.

Ensembles

Be aware. Ensembles are offered only as zero course unit experiences graded on a satisfactory (S) or unsatisfactory (U) basis.

060. College Choir

Open to all students by audition only. Rehearsals are two times weekly. Fall and Spring concerts of sacred and secular music, a cappella or accompanied, and the annual Candlelight Carol Services.

061. Wind Ensemble

The Wind Ensemble provides performance opportunities in traditional and contemporary concert music for interested and qualified wind and percussion players. Open to all students with permission of the director. Rehearsals are held twice weekly. Participation in all performances required.

062. Chamber Orchestra

The Chamber Orchestra consists of 20-30 string players plus winds, brass, and percussion and performs works from the 18th, 19th, and 20th centuries. The ensemble performs one concert each semester.

063. Collegium Musicum

This ensemble is dedicated to the performance of Medieval, Renaissance, and Baroque music. The members of the Collegium study early music performance practices and perform on period instruments. The ensemble performs one concert each semester.

064. Jazz Ensemble

The Jazz Ensemble is a select group of 20-25 members which performs a wide variety of jazz styles. There is one rehearsal a week and several performances take place during the year. Each year the ensemble features a national jazz artist in concert.

065. Jazz Improvisation Ensemble

This group is devoted to the study and performance of improvised music. Students participating in the ensemble explore traditional, progressive, and experimental forms of jazz in order to develop a wide range of approaches to improvisation. The ensemble performs one concert each semester.

066. Opera Workshop

The Opera Workshop is designed to give advanced vocalists an opportunity to explore and perform operatic solo and ensemble pieces. Members should be concurrently enrolled for Individual Applied Music and College Choir. Open to advanced students by instructor permission.

067. Chamber Singers

A small (24) choral group selected from the members of the College Choir, by audition.

068. Small Ensemble

Various types of small groups including flute ensemble, percussion ensemble, etc.

NATURAL SCIENCE

The natural science major provides a broad-based program of study in the sciences that includes basic training in biology, chemistry, physics, and calculus and enables students to achieve advanced training in two of these areas. Since its inception, the program has been the major of choice for many students who have gone on in the

health professions to become medical doctors, osteopaths, chiropractors, dentists, nurses, occupational therapists, and many other professionals. Because the major is very flexible, it has also been useful for students interested in a variety of other careers such as elementary school teaching, patent law, technical writing, and as a second major for many in the social sciences and humanities. Muhlenberg has several programs that can be combined with this major (see Cooperative Programs for details): (1) a 3-2 program with Columbia School of Nursing, (2) a program in dentistry with the University of Pennsylvania School of Dental Medicine, (3) a program in medicine with Drexel University School of Medicine and Lehigh Valley Hospital, (4) a program with the School of Forestry and Environmental Studies at Duke University.

Major Requirements

Required Courses:

Eight basic courses in the sciences:

BIO 151 Principles of Biology II: Cells & Organisms
 BIO 152 Principles of Biology III: Molecules & Cells
 CHM 103 General Chemistry I
 CHM 104 General Chemistry II
 MTH 121 Calculus I
 MTH 122 Calculus II **OR**
 MTH 144 Introduction to Statistical Analysis
 PHY 121 General Physics I
 PHY 122 General Physics II

Four courses numbered 200 or greater in biology, chemistry, physics, and mathematics that focus the student's studies. Two courses in each of two departments.

Two courses numbered 300 or greater that continue the study in one or both of the selected departments.

Students may sharpen their focus by completing additional courses in the sciences. Students seeking careers in the health professions should continue their focus in biology and chemistry. Biochemistry, genetics, microbiology, cell biology, metabolism, immunology, and organic chemistry are among the suggested courses.

NEUROSCIENCE (NSC)

Director: Assistant Professor Jeremy Teissere

Professors: Edelman, Haring, Schick

Associate Professors: McCain, Rudski, Wightman, Wolfe

Assistant Professors: Gardner, Kussmaul, Mackenzie, Meier

Lecturer: Byrne

Neuroscience is the study of the neural underpinnings of mind and behavior. Scholarship in neuroscience often locates itself at the intersection of philosophical approaches to the mind and empirical approaches to the brain. Thus, the neuroscience curriculum at the College has been designed to highlight those resonances and counterpoints between existing departments that yield new perspectives on the roots of behavior. The major provides students the opportunity to develop strong foundational training in the natural sciences, philosophy, and psychology within the context of the liberal arts. Given the breadth of training within the major and the diversity of expertise among the supporting faculty, the neuroscience student is especially prepared for careers in research, medicine, and industry in a variety of fields.

Honors Program

A student may work for honors by conducting research with a faculty mentor from the Neuroscience Program for two semesters during the senior year. Acceptance into the honors program is selective and based on the following criteria:

1. A minimum GPA of 3.5 in courses counting toward the neuroscience major.
2. Approval of an Honors Proposal submitted to a Neuroscience Program faculty member in the Spring of the Junior year. The student should work with the faculty member to develop the proposal. The proposal will be reviewed by an Honors Committee.
3. Availability of research positions within the laboratory of the chosen faculty mentor.

Acceptance into the honors program does not mean that honors necessarily will be awarded. The Neuroscience Program will grant honors at commencement to majors who have fulfilled the following conditions:

1. The candidate has met the expectations of two course units of research during the Senior year or the summer prior to the Senior year. Under rare circumstances, a highly active student may count research performed during the Junior year toward this requirement. Research counting toward honors work must occur under the NSC 970 designation. In all cases, research expectations will be clearly established by the faculty mentor.
2. The candidate has actively attended Neuroscience Program seminars, and/or an affiliate departmental seminar series (including Biology, Psychology, Philosophy, and/or Computer Science Department seminar programs).
3. The candidate has submitted a senior thesis for review by the Honors Committee. The thesis should be a paper in standard scientific format. It should address a significant issue within neuroscience, provide substantial background on the subject, give a complete description of the experiments performed, and discuss the significance of the results. The Committee will judge the candidate's thesis based both on the scientific merit of the work and the quality of writing.

4. The candidate has presented the results of the honors research in the Neuroscience Program seminar, usually during the Spring semester of the Senior year.

The Honors Committee will evaluate both the written thesis and the seminar of the candidate and make a determination as to whether *Honors* or no honors (with a passing grade) will be awarded

Major Requirements

To declare and be retained as a neuroscience major, a student must maintain a 2.000 grade point average based on all neuroscience, biology, philosophy, and psychology courses attempted.

Required Courses:

Neuroscience majors must complete 15 courses: four core courses in neuroscience, three electives, and eight cognates.

1. Four core courses in neuroscience

NSC 101 Mind & Brain
PSY 208 Biological Psychology
BIO 248 Neurobiology
NSC 448 Advanced Topics in Neuroscience

NSC 101 Mind & Brain, PSY 208 Biological Psychology, and BIO 248 Neurobiology may be taken at any time and in any order. NSC 448 Advanced Topics in Neuroscience is designed to be taken during the fourth year as the final requirement of the major.

2. Eight cognate courses

BIO 150 Principles of Biology I
BIO 151 Principles of Biology II
BIO 152 Principles of Biology III
CHM 103 General Chemistry I
CHM 104 General Chemistry II
MTH 121 Calculus I
PSY 101 Introduction to Psychology
PHL 238 Philosophy of Mind

In addition to these cognate requirements, students interested in graduate study in neuroscience or the health professions are strongly encouraged to complete a year of organic chemistry and a year of introductory physics. Competency in statistical methods is also strongly suggested.

- 3. Three electives in neuroscience.** At least two lists must be represented.

List A

BIO 205 Cell Biology
BIO 215 Genetics
BIO 220 Biochemistry
BIO 240 Developmental Biology
BIO 245 Comparative Anatomy
BIO 250 General Physiology
BIO 265 Ethology
BIO 405 Cell Biology of Human Diseases
BIO 412 Molecular Biology
BIO 421 Transmission Electron Microscopy
BIO 460 Physiological & Behavioral Ecology

List B

PHY 237 Philosophy of Science
PHL 327 Philosophy of Language
PHL 329 Phenomenology
PHL 331 Epistemology
PHL 332 Metaphysics

List C

PSY 201 Learning & Behavior
PSY 202 Social Psychology
PSY 203 Personality Psychology
PSY 207 Sensation & Perception
PSY 213 Abnormal Psychology
PSY 301 Cognitive Processes
PSY 318 Psychopharmacology

List D

NSC 970 Neuroscience Research/Independent Study

COURSES

101. Mind and Brain

This course serves as a multidisciplinary introduction to the major themes and research problems of neuroscience. The development of neuroscience as an empirical discipline will be traced by studying the writing of key biologists, psychologists, and philosophers in the field. Class discussions will center on working definitions of consciousness, experimental approaches to consciousness and self-knowledge, and dysregulations of mind. A laboratory will explore systems of consciousness from a physiological and phenomenological perspective. Three class hours and one and a half laboratory hours per week.

Meets general academic requirement S.

448. Advanced Topics in Neuroscience

This course serves as a graduate-style seminar for the senior neuroscience major and will stress reading and discussion of primary texts and timely issues within the field. Topics discussed may include synaptic mechanisms in memory and learning, analysis of simple neuronal circuits, cortical architecture, neuroendocrinology, the neural basis of sleep and dreaming, pain mechanisms and integration, neurogenetics, and/or the relationship of neuronal physiology and behavior.

Prerequisites: BIO 152 Principles of Biology III, BIO 248, NSC 101, and PSY 208 are recommended.

Meets general academic requirement W.

PHILOSOPHY (PHL)

Department Chair: Professor Christine Sistare

Professors: DiQuinzio, L. Hass, M. Hass, Schick, Schlecht

Assistant Professors: Coutinho, Gardner, Mackenzie

Distinguished Visiting Professor: Walsh

Philosophy aims at a comprehensive and coherent view of the world by critically examining our most basic beliefs about the nature of reality, knowledge, persons, and values. It involves scrutiny of the concepts that define who we are and give direction to our lives, as well as exploration of the assumptions and methodologies fundamental to other disciplines. The student of philosophy develops skills in clarifying concepts, analyzing arguments, and assessing positions. The understanding and skills gained through the study of philosophy are valuable to all individuals and are highly prized by every profession, including law, medicine, government, and business. For those primarily interested in political philosophy, an interdisciplinary Philosophy/Political Thought major is available (see page 215).

Philosophy course offerings are classified under several categories: **Introductory, Logic, History of Philosophy, Asian Philosophies, Ethics and Social Theory, Contemporary Areas and Movements, Seminars, and Individualized Instruction.** The **Introductory** courses provide a broad-based exposure to issues that have stimulated philosophical inquiry. **Logic** courses furnish the student with the reasoning skills necessary to critically analyze and logically formulate arguments. Courses in the **History of Philosophy** examine the ideas that have helped to shape the course of Western civilization. **Asian Philosophies** courses include both surveys and in-depth study of philosophical views originating in China, India, and Japan. Courses in **Ethics and Social Theory** include theoretical approaches and applied issues in moral, social, and political philosophy. **Contemporary Areas and Movements** courses include those covering major philosophical fields and post-19th century philosophy. **Seminar** courses are offered once or twice yearly; **Individualized Instruction** includes independent study and internship opportunities.

Honors Program

An honors program is available to qualified students. To be considered for acceptance into the honors program, students must have a grade point average of 3.300 or better in courses counting toward the major. Students wishing to complete honors work in Philosophy should declare their interest in writing to the department chair before the end of the fall semester of the junior year. Requirements for departmental honors in Philosophy include writing a substantial paper and defending it orally.

PROGRAM REQUIREMENTS

Major Requirements

A major in philosophy consists of nine courses, including:

- One **Logic** course (*PHL 111 Formal Logic recommended*)
- Two courses in the **History of Philosophy** (*normally PHL 221 Ancient Philosophy and PHL 223 Modern Philosophy*).
- One **Ethics and Social Theory** course
- One **Asian Philosophies** course

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One **Contemporary Areas and Movements** course
One **Seminar**
Two Electives

*No more than one Introductory course may be counted towards the major.
A minimum of two courses must be taken at the 300 level.
Students are strongly advised to complete several courses at the 200 level before taking any 300 level course or a Seminar.*

Minor Requirements

A minor in philosophy consists of six courses, including:

One **Logic** course
One course in the **History of Philosophy** (normally, either *PHL 221 Ancient Philosophy* or *PHL 223 Modern Philosophy*).
One **Ethics and Social Theory** course
One **Asian Philosophies** course
One **Contemporary Areas and Movements** course
One Elective

*No more than one Introductory course may be counted towards the major.
A minimum of one course must be taken at the 300 level.
Students are strongly advised to complete several courses at the 200 level before taking any 300 level course or Seminar.*

Courses in philosophy are numbered as follows:

- 100 through 199 – open to all students; designed as a first philosophy course
- 200 through 299 – normally open only to students beyond the first year of college
- 300 through 399 – previous course work in philosophy required

INTRODUCTORY COURSES

102. Theories of Human Nature

A study of various theories about the nature of persons and their place in the universe. What does it mean to be human? What concepts are essential in understanding persons? How are persons related to other things in nature? To each other in society? To God? In what does human happiness or fulfillment consist?

Meets general academic requirement P.

104. Philosophy East & West

A comparison/contrast of some of the great systems of Eastern and Western philosophical thought. Topics will include selves and persons, immortality and reincarnation, theism and atheism, mysticism and rationalism, perception and illusion, monism and pluralism, being and nothingness.

Meets general academic requirement D or P.

105. Conduct & Character

An introduction to ethics through the study of leading perspectives and familiar moral issues. We engage in moral choice and action every day of our lives, but we also struggle with questions about our moral life. Among the questions the course addresses are: Is there genuine moral truth, or is it all just 'opinion'? What

is the relation of conduct to character? What standards might we use in judging conduct or character, and on what are they based? How do these various standards apply to concrete problems in contemporary life? Why should we struggle to be moral at all?

Meets general academic requirement P.

106. Individual & Society

An introduction to the field of philosophy through an exploration of selected problems in socio-political theory with special attention to those that confront us in contemporary social life. These might include the grounds for political authority, the nature of individuals and social groups, our knowledge of the social good, and the comparative roles of reason, power, and wealth in human relations. Specific topics may vary by section and year.

Meets general academic requirement P.

108. Being & Knowing

An examination of various theories of the nature of reality and thought. As human beings we find ourselves in a world—experiencing and thinking. In short, we exist. But what is the meaning of our existence? What other kinds of things exist? Does God exist? Is the mind independent of the body? Do we have free will? Moreover, how are we to proceed with such inquiries? Are there objective standards of judgment? What is knowledge as opposed to mere opinion? Can we have knowledge of reality at all?

Meets general academic requirement P.

LOGIC

110. Critical Thinking

A study of the principles and methods of correct reasoning. The course is designed to promote the development of skills in recognizing, analyzing, and evaluating arguments. Both deductive and non-deductive inferences will be considered; the identification of common fallacies in reasoning will be emphasized.

Meets general academic requirement G.

111. Formal Logic

The formal analysis and assessment of deductive arguments using modern symbolic logic, including propositional and predicate logic. Four class hours per week.

Meets general academic requirement G.

HISTORY OF PHILOSOPHY

221. Ancient Philosophy

The beginnings of western philosophy. A study of the enduring philosophical issues in the works of Plato and Aristotle with attention to their origins in pre-Socratic writings. Consideration will also be given to the development of Hellenistic thought and to the philosophical contributions of Augustine and Aquinas.

Meets general academic requirement P.

223. Modern Philosophy

European philosophical thought during the 17th and 18th centuries. A study of some of the most important attempts to formulate a systematic world-view consistent with modern science, and its implications for an understanding of persons, knowledge, and society. Included are the continental rationalists Descartes, Spinoza, and Leibniz; the British empiricists Locke, Berkeley, Hume, and the critical idealism of Kant.

Meets general academic requirement P.

325. Nineteenth Century Philosophy

European philosophical thought during the 19th century. A study of some of the significant issues and projects that emerged in the wake of Kant's "critical" philosophy and in a society increasingly shaped by

scientific and industrial development. Thinkers that may be considered: Hegel, Marx, Kierkegaard, Mill, Nietzsche, and Freud.

Prerequisite: Any previous course in philosophy. PHL 223 Modern Philosophy is recommended

ASIAN PHILOSOPHIES

220. Philosophies of Asia

This course explores many of the most influential philosophical ideas that have emerged from the cultures of South Asia and East Asia. We will read, discuss, and interpret translations of the primary texts themselves: the *Vedas*, the *Upanishads*, The *Analects* of Confucius, the *Tao Te Ching* of Lao Tzu, and many others. The philosophical ideas of these texts are of fundamental importance for understanding the living cultures of Asian countries and Asian people today.

Meets general academic requirements P or D.

250. Philosophies of India

A foundational course that explores the central schools of Indian philosophy. Through readings of primary texts, we will develop a deeper understanding and appreciation of the world views, styles of thinking, and cultures of South Asia. We will examine several of the most important concepts, methods, texts, philosophers, and schools of India thought. Topics will be taken from *Vedas*, *Upanishads*, Samkhya, Yoga, Nyaya, Vaisheshika, Mimamsa, Vedanta, Jainism, Carvaka, early Buddhist thought, Madhyamaka and Yogacara Buddhist philosophies, and twentieth century appropriations and developments of traditional philosophical themes.

Meets general academic requirements P or D.

251. Philosophies of China

A foundational course that explores the central schools of Chinese philosophy. Through readings of primary texts, we will develop a deeper understanding and appreciation of the world views, styles of thinking, and cultures of East Asia. We will examine several of the most important concepts, methods, texts, philosophers, and schools of Chinese thinking. Topics will include Confucianism (*Analects*, *Great Learning*, *Doctrine of the Mean*, Mencius, and Xunzi), Mohism (Mozi and the later Mohists), Daoism (Laozi, Zhuangzi), Legalism (Hanfeizi), the Logicians (Huizi and Gongsun Longzi), and Chinese Buddhist philosophies.

Meets general academic requirements P or D.

350. Buddhist Philosophies

An advanced course in Buddhist philosophies. Through readings of primary texts, we shall explore critically, and in depth, the world views and philosophical claims of several schools of Buddhism. We shall begin with the origins of early Buddhist thought and follow the development of several schools of Indian, Chinese, and Japanese Mahayana Buddhism, such as Madhyamaka, Sanlun, Yogacara, Weishilun, Tiantai (Tendai), Huayan (Kegon), and Chan (Zen). The course may also focus on some contemporary developments of traditional themes.

Prerequisite: Any previous course in philosophy. PHL 220 Philosophies of Asia recommended.

351. Daoist Philosophies

An advanced course in Daoist philosophies. In this course we shall read closely, discuss and interpret, analyze, and engage critically with the three central texts of Daoist philosophical thought: the *Laozi*, also known as the *Daodejing* (*Tao Te Ching*), the *Zhuangzi* (*Chuang Tzu*), and the *Liezi* (*Lieh Tzu*). The course may also include the "Neo-Daoist" philosophical commentaries of Wang Bi and Guo Xiang, two influential thinkers of the Han and Jin dynasties. We shall attempt to trace the development of Daoist ideas, especially through the various schools represented in the chapters of the *Zhuangzi*.

Prerequisite: Any previous course in philosophy. PHL 220 Philosophies of Asia recommended.

ETHICS AND SOCIAL THEORY

239. Political Philosophy

A systematic examination of fundamental issues and concepts in political philosophy. Readings will be drawn from both historical and contemporary major figures in political philosophy. Topics may include the nature and significance of equality, freedom, justice, power, and community; the meanings and uses in political philosophy of concepts such as human nature, law, rights, utility, and the social contract; the relationship of economic and political structures; the advantages and disadvantages of various forms of government; and questions of methodology in political philosophy.

Meets general academic requirement P.

241. Biomedical Ethics

An examination of the ethical issues raised by such practices as abortion, euthanasia, birth control, life prolonging techniques, human experimentation, recombinant DNA research, and cloning. How might such practices affect the individual and society? Are such practices ethical? Do patients and/or doctors have a right to refuse treatment? What considerations are relevant in making life or death decisions? How should scarce medical resources be allocated?

Meets general academic requirement P.

242. Law & Morality

An examination of issues at the intersection of law and morality. Among possible topics are the legitimate limits of legal control of individuals, the relation of legal validity and moral value, the role of moral reasons in judicial decision making, and the nature of legal justice. A required course for Philosophy/Political Thought.

Meets general academic requirement P.

245. Business Ethics

An examination of the ethical problems encountered in business. What obligations do employers have to their employees to provide suitable working conditions, follow fair hiring and promotion procedures, etc.? What obligations do businesses have to consumers to provide product information, use fair advertising techniques, etc.? What obligations do businesses have to the public to conserve limited resources, preserve the environment, etc.?

Meets general academic requirement P.

246. Environmental Philosophy

Examination of several theoretical approaches to the question of human relations with the nonhuman world and to associated questions about valuation, human society, and human morality. Usually these will include some forms of radical ecophilosophy such as ecofeminism, deep ecology, and social ecology; environmental ethics based in traditional views such as utilitarianism and rights theories; and anthropocentric reformist views on the instrumental value of nature. Attention is given, where possible, to non-European perspectives.

Meets general academic requirement P.

333. Ethics

Examination of the theoretical structures and historical movement of predominantly western moral theories as well as of recent critical responses to traditional approaches. Perspectives typically covered include ancient and modern virtue theories, utilitarianism, Kantianism and its descendants, the critical views of Nietzsche or Marx, and contemporary Anglo-American work. Related issues, such as indeterminacy, pluralism, and the nature of moral judgment are also addressed.

Prerequisite: any previous course in philosophy

339. Topics in Feminist Philosophy

Examination of the historical development and current state of feminist theory as both a critical perspective and an area of systematic philosophical inquiry. The course may include feminist epistemologies, political theory, or ethics.

Prerequisite: any previous course in philosophy.

CONTEMPORARY AREAS AND MOVEMENTS

226. American Philosophy

American philosophical thought during the late 19th and 20th centuries, with special emphasis on pragmatism, process philosophy, and neo-pragmatism. Focus will be on the work of Peirce, James, Dewey, Whitehead, Rorty, and Putnam. Close reading of primary texts will be emphasized. Topics in metaphysics, epistemology, ethics, and philosophy of mind will be discussed.

Meets general academic requirement P.

234. Philosophy of Religion

An examination of the nature of religion, the meaning of religious claims, and the justification of religious beliefs. The views of both religious adherents and critics will be studied. Primary focus will be on the 20th century writings in the attempt to explore the possibilities of intellectually responsible religious commitment in the contemporary world.

Meets general academic requirement P.

236. Philosophy & the Arts

In this course we will think about art—about its nature and its important place in human life. To facilitate this, the course brings together the writings of philosophers and the work of artists from a variety of domains. The goal here is not to intellectualize art but to understand the intelligence that goes into it, to enrich our experiences of art, and to foster our own creative sensibilities. We will consider famous writings on art by thinkers such as Plato, Aristotle, Tolstoy, Heidegger, and Merleau-Ponty in relation to important works of literature, theatre, painting, architecture, and film.

Meets general academic requirement P.

237. Philosophy of Science

An examination of the goals, methods, and assumptions of modern science. What distinguishes scientific explanations from non-scientific ones? How are scientific theories discovered and confirmed? What criteria of adequacy are used to decide between competing scientific theories? Are all sciences reducible to physics? Has physics proven that the world does not exist independently of our consciousness? Does science give us objective knowledge of the world? Is science a religion?

Meets general academic requirement P.

238. Philosophy of Mind

This course is a survey of the fundamental issues, controversies, and methods in contemporary philosophy of mind. Topics will include the relation between the mental and the physical, the problem of consciousness, perception, intentionality, mental causation, and the self. The course will also examine various methods for studying the mind, such as phenomenology, conceptual analysis, and natural scientific approaches.

Meets general academic requirement P.

327. Philosophy of Language

A study of major movements in twentieth century philosophy arising out of the study of language and meaning. This “linguistic turn” in philosophy includes logical atomism, logical positivism, ordinary language philosophy, and deconstruction. Readings will be drawn from the work of Russell, Wittgenstein, Ayer, Dummett, Quine, and Derrida.

Prerequisite: any previous course in philosophy

329. Phenomenology

In the 20th Century, phenomenology has emerged as a new and powerful philosophical program. At its core is the impulse to reveal the reality which underlies and gets obscured by scientific activity and “everyday” thinking. But while the thinkers who carry out this project share a similarity of method, their writings reveal a provocative variation in results. What does this mean? And what are the strengths and weaknesses of phenomenology as a method, program, and as a type of argument? We will consider these questions by considering the writings of thinkers such as Husserl, Heidegger, Sartre, Merleau Ponty, Irigaray, and Levinas.

Prerequisite: any previous course in philosophy

330. Post Modern Philosophy

In the 1960s post-structuralist philosophy exploded onto the French intellectual scene. By the 1990s the insights, criticisms, and methodologies of its leading thinkers had permeated American intellectual life—most familiarly under the name of “post-modernism.” What is this “movement” all about? To what exactly is it responding? What exactly is “deconstruction” and *différence*? Why have these (and other) post-modern insights/practices so dramatically transformed the American academy and its traditional disciplines? We will consider these questions by considering the writing of thinkers such as Derrida, Foucault, Kristeva, Lyotard, and Deleuze (and Guattari).

Prerequisite: any previous course in philosophy

331. Epistemology

An exploration of the nature, scope, and sources of human knowledge. When and under what conditions do people have knowledge? Do we really know the things that we think we know? Is knowledge acquired by using the senses, the intellect, or both? Although some attention will be paid to the views of historical figures, the focus of the course will be on contemporary issues. Topics may include skepticism, the problem of analyzing the concept of knowledge, theories about the nature and structure of justification, *a priori* knowledge, feminist theories of knowledge, and the naturalization of knowledge.

Prerequisite: any previous course in philosophy

332. Metaphysics

An inquiry into the ultimate nature of reality and our relationship to it. What sorts of things exist? Does the world consist solely of material objects or does it also contain immaterial objects such as God, souls, or numbers? What is the relationship between the mind and the body? Do humans have free will? Can humans survive the death of their bodies? Do our best theories reveal the truth about reality or do they merely reveal the ideological biases of the dominant group? Topics may include realism vs. anti-realism; the nature of space and time; persons, minds, and free will; the problem of universals; and the existence of God.

Prerequisite: any previous course in philosophy

SEMINAR**500-549. Seminar**

An investigation into a selected philosophical problem, text, thinker, or movement, carried on by readings, discussions, and papers. The seminar is designed to provide majors, minors, and other qualified students with more than the usual opportunity to do philosophy cooperatively and in depth.

Meets general academic requirement W.

INDIVIDUALIZED INSTRUCTION**960. Philosophy Internship****PHILOSOPHY/POLITICAL THOUGHT**

Directors: Professor Christine T. Sistare and Associate Professor Giacomo Gambino

This interdisciplinary major focuses on American and Western European political philosophy, integrating appropriate political science and philosophy courses to permit a comprehensive examination of the Western state and its functions, justifications, and ideological foundations. Political theory courses are complemented by philosophy courses that examine the basic assumptions that underlie the concept of the state and

society in Western history. The major is recommended to pre-law students and students interested in graduate study in this area.

Students in this major may not take any courses in philosophy or political science on a pass/fail basis. To continue as a major the student must maintain a 2.000 grade point average in all courses attempted in the program. Majors may satisfy the writing intensive course requirement for the major in philosophy or political science.

Major Requirements

Prerequisites:

One course chosen from the following:

- PHL 102 Theories of Human Nature
- PHL 105 Conduct & Character
- PHL 106 Individual & Society
- PSC 201 Political Ideologies

Political Science Courses:

Choose two:

- PSC 260 or 261 American Political Thought
- PSC 262 or 263 Utopia & Its Critics
- PSC 264 or 265 Politics & Public Space
- PSC 348 or 349 Democratic Theory
- PSC 356 or 357 War & Justice

One additional political science course selected in consultation with the faculty advisor from such courses as:

- PSC 205 or 206 Constitutional Law I
- PSC 216 or 217 Environmental Politics & Policymaking
- PSC 339 or 340 Theories of International Relations

Philosophy Courses:

- PHL 242 Law & Morality

Choose two:

- PHL 221 Ancient Philosophy
- PHL 239 Political Philosophy
- PHL 333 Ethics

One additional philosophy course selected in consultation with the faculty advisor from such courses as:

- PHL 245 Business Ethics
- PHL 246 Environmental Philosophy
- PHL 251 Philosophies of China
- PHL 339 Topics in Feminist Philosophy

Seminar:

Seminar taken in either philosophy (PHL 500-549) or PSC 450: Modernity & Its Discontents.

PHYSICAL EDUCATION (PED)

Program Director: Associate Professor Linda Andrews

All Muhlenberg College students are required to enroll PED 050 Principles of Fitness & Wellness which meets the one semester physical education requirement.

Department of Physical Education courses are offered as zero course unit experiences graded on a satisfactory (S) or unsatisfactory (U) basis. They are taught on both a semester (14 weeks) and quarter (7 weeks) calendar.

Aside from PED 050 Principles of Fitness & Wellness, all other physical education courses are offered on an elective basis and are divided into theory courses, fitness courses, and lifetime skill courses. Fitness courses are those courses that contribute to the basic components of fitness that include cardiovascular endurance, muscular strength and endurance, flexibility, and body composition. Lifetime skill courses contribute to the social and emotional well being of the student by emphasizing recreational competence, lifetime sport skills, and techniques for stress management.

COURSES

050. Principles of Fitness & Wellness

This course is designed to develop a greater understanding of fitness and wellness concepts in order to achieve the highest potential of personal well-being. It is divided into a wellness component and a fitness component. The wellness component will emphasize concepts an individual needs in order to practice behaviors that will lead to positive outcomes in the seven dimensions of wellness: physical, emotional, intellectual, social, environmental, occupational, and spiritual. The fitness component provides the opportunity for individual fitness evaluations using computer analysis. Students will also be introduced to various experiences addressing the cardiovascular, muscular, and flexibility components of fitness.

Meets general academic requirement PE.

100. Foundations of Exercise Science & Wellness

0.5 course unit

This course is designed to examine the basic principles of physical activity and wellness concepts as they relate to psychological, emotional, social, and physical well-being. Readings, lectures, and discussions will cover such issues as personal, family, community health and safety, life long health habits, physical fitness, and the development of motor skills. Additional topics relative to elementary education certification include the role and value of play, games, and sports in child development, substance abuse, conflict resolution, and school violence prevention. Students will also have opportunities to participate in fitness and wellness service learning programs for children in the surrounding community.

For elementary teacher certification candidates. This course replaces the Principles of Fitness & Wellness course for teacher certification candidates and fulfills their physical education requirement. In the event of seats remaining, other students may be added by permission of the instructor.

Fitness Courses

Emphasis on the health related components of physical fitness (cardiovascular, muscular strength, muscular endurance, flexibility, and body composition).

PED 046 Yoga

Lifetime Skills Courses

Emphasis on the mastery of fundamental skills for competency and the enjoyment of healthful activity contributing to physical, social, and emotional well-being.

PED 040 Tennis

PHYSICAL SCIENCE

Director: Robert Milligan

Professors: Dunham, Milligan, Shive

Associate Professors: Anderson, Flood, Nelson, Russell

Assistant Professor: Fadem

This program is designed for those students wishing to base a science and engineering career on a strong liberal arts education. Students can combine this major with a business minor, pursue education, enter high-tech industry, or continue for a degree in engineering, materials science, surface science, and related fields. Students can spend three to four years at Muhlenberg and then transfer to an affiliated engineering school to receive a Bachelor of Science degree from Muhlenberg and a second Bachelor of Science degree from the affiliated school. Muhlenberg has several programs that can be combined with this major (see Cooperative Programs for details): (1) programs in engineering with Columbia University, (2) programs in engineering with Washington University.

Major Requirements

Eight basic courses in the sciences:

CHM 103 General Chemistry I

CHM 104 General Chemistry II

CSI 110 Computer Science I

MTH 121 Calculus I

MTH 122 Calculus II

MTH 227 Differential Equations

PHY 121 General Physics I

PHY 122 General Physics II

Four courses numbered 200 or greater that focus the students' interest in two of the disciplines: chemistry, computer science, mathematics, and physics.

Two courses numbered 300 or greater that continue the study in one or both of the chosen disciplines.

PHYSICS (PHY)

Department Chair: Associate Professor Jane Flood

Professor: Milligan

Assistant Professor: Fadem

The study of physics enables students to develop the important skills of deductive and analytical reasoning. It provides an understanding of natural phenomena and demands that the student be able to express an intuitive model of nature in mathematical terms. In short the study of physics is the study of problem-solving. The skills developed help to prepare the graduate for the ever-changing technical world in which we live and for life in general.

PHY 105 Physics for Life, PHY 111 Introduction to Astronomy, and PHY 113 Cosmology are designed to meet the needs of all students. PHY 121 General Physics I, PHY 122 General Physics II, and courses numbered 200 or greater are designed for those students preparing for careers in medicine, engineering, and specialized scientific fields. The major program is designed to provide a strong background in classical and modern physics and includes a substantial component of laboratory experience. Students who complete the major program will have an undergraduate training in physics that will enable them to find employment, teach at the secondary level, or attend professional or graduate school in a variety of fields and disciplines.

Teacher Certification

Students seeking certification for the teaching of physics in secondary schools are required to take PHY 313 as the course numbered between 200 and 399.

PROGRAM REQUIREMENTS

Major Requirements

Required Courses:

- PHY 121 General Physics I
- PHY 122 General Physics II
- PHY 213 Modern Physics
- PHY 216 Analog & Digital Circuits
- PHY 226 Optics: From Lenses to Lasers
- PHY 241 or 242 Thermal & Statistical Physics
- PHY 319 Analytical Mechanics
- PHY 329 Electromagnetism

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One other course numbered between 200 and 399 in the department.

In addition, the student must complete:

MTH 121 Calculus I

MTH 122 Calculus II

Two additional courses in mathematics chosen from:

MTH 223 Calculus III

MTH 226 Linear Algebra

MTH 227 Differential Equations

Students interested in graduate work in physics or engineering will be encouraged to elect additional physics and mathematics courses.

In addition to a major in physics, the College offers an interdisciplinary physical science major. The physical science major is specifically designed to meet the core courses required for students interested in pursuing the Pre-Engineering Combined Plan programs with either Columbia University or Washington University (see page 218.)

Minor Requirements

The department offers a minor in physics, requiring a minimum of six course units, including:

PHY 121 General Physics I

PHY 122 General Physics II

A student interested in the minor in physics should consult with the faculty advisor to develop a program suited to the individual's vocational and/or personal objectives. A student may be advised to enroll in mathematics courses beyond MTH 121 Calculus I in order to complete a specific minor program successfully.

COURSES

105. Physics for Life

An inquiry-based introduction to the concepts of physics and physical science. Through in-depth study of simple physical systems, students gain direct experience with the process of science. The content of the course varies and will concentrate on one or two of the following topics: properties of matter, heat and temperature, light and color, magnets, electric circuits, fluids, and the physics of motion. No mathematical prerequisites beyond those of secondary school algebra and geometry.

Meets general academic requirement S.

111. Introduction to Astronomy

A study of the structure, motions, and evolution of the bodies of the physical universe. Emphasis is given to understanding physical principles and the techniques used by astronomers to study the universe. Topics of special interest include the structure of the solar system, the properties of stars, stellar evolution and collapse, the structure of galaxies, and cosmology.

Meets general academic requirement S.

113. Cosmology: The Scientific Exploration of the Universe

We are continually seeking the answers to the age-old questions about the origin, age, composition, structure, and ultimate fate of the universe. Just as the cosmos is changing, our views of the cosmos are changing as new observations and interpretations emerge. This course will examine the generally accepted cosmological models and the personalities responsible for these models from the time of the ancient Greeks up to the present. Each will be examined in light of the observational data available at the time. Primary emphasis will be given to understanding the most current observations about the universe and the prevailing inflationary Big Bang model of the universe. **Offered as a course designed for Muhlenberg Scholars.**

Meets general academic requirement S.

121. General Physics I

An introductory, calculus-based physics course. This activity-based course meets for two two-hour sessions in the laboratory where concepts are introduced through experimentation and other hands-on activities. Follow-up discussions, demonstrations, and problem solving are emphasized during lecture periods. Topics covered include one- and two-dimensional kinematics and dynamics, momentum, energy, rotational kinematics and dynamics.

Prerequisite: MTH 121 Calculus I should be previously completed or enrolled concurrently.

Meets general academic requirement S.

122. General Physics II

Topics covered are electrostatics, dc circuits, magnetism and electromagnetic induction, wave optics, ray optics, and some topics from modern physics. This course follows the same weekly format as General Physics I.

Prerequisite: PHY 121 General Physics I

Meets general academic requirement S.

213. Modern Physics

An introduction to twentieth-century developments in physics with an emphasis on the special theory of relativity, Rutherford scattering, introduction to quantum theory, atomic structure, and nuclear energy.

Prerequisite: PHY 122 General Physics II

216. Analog & Digital Circuits

Through a mix of laboratory and classroom work, students will build and analyze analog and digital circuits found in many scientific and computer applications. Specific topics include passive and active filters, electronic feedback, operational amplifiers, oscillators, A/D and D/A conversion, digital waveshaping, and instrumentation. This course meets in the laboratory and will be offered in alternate years.

Prerequisite: PHY 122 General Physics II

226. Optics: From Lenses to Lasers

The student will explore the field of optics, starting with the fundamentals of waves and electromagnetic theory through geometrical and physical optics and culminating in the study of selected topics from modern optics. The modern topics may include lasers, optical data processing, holography, or nonlinear optics. This course meets for two hours, twice a week, and will be taught in a laboratory/discussion format.

Prerequisite: PHY 122 General Physics II

241, 242. Thermal & Statistical Physics

The laws of thermodynamics, their consequences, and applications. Kinetic theory of an ideal gas and an introduction to statistical mechanics.

Prerequisite: PHY 122 General Physics II

Meets general academic requirement W when offered as 242.

250. Simulating Science

Computer simulations are an integral part of contemporary basic and applied science and computation is becoming as important as theory and experiment. The ability "to compute" is now part of the essential repertoire of research scientists. This course will introduce students to methods of computer simulation with applications to physics, biology, chemistry, and environmental science. Possible topics include chaotic

dynamics (physics), how populations change with time (biology), the kinetic theory of gases (chemistry), and the change over time of pollution levels in lakes (environmental science). No programming experience is necessary. Elements of structured programming will be presented as needed.

Prerequisite: PHY 121 General Physics I

313. Nuclear & Particle Physics

Elementary particles are the building blocks of nature. The “standard model” describes the interaction of these building blocks and constitutes the most comprehensive understanding of the physical world in existence. An overview of the standard model will be presented as well as topics in nuclear physics. Discussion and hands on experience with particle detectors will be included.

Prerequisite: PHY 213 Modern Physics

319. Analytical Mechanics

A detailed study of the kinematics and dynamics of particles, systems of particles, and rigid bodies. Newtonian, Lagrangian, and Hamiltonian formulations of classical mechanics will be considered with applications to oscillators, gravitation, projectile motion in the presence of frictional forces, and motion in electromagnetic fields. Einstein’s theory of special relativity will also be studied.

Prerequisite: PHY 122 General Physics II and MTH 122 Calculus II

329. Electromagnetism

A study of electrostatics, magnetostatics, electrical currents, and their effects. Maxwell’s equations are derived. Vector methods are stressed and field notation is used.

Prerequisite: PHY 319 Analytical Mechanics

341. Introduction to Quantum Mechanics

Origin of quantum concepts; the wave function and its interpretation; the Schrodinger equation; treatment of the free particle; potential barriers and wells; the linear harmonic oscillator; and the hydrogen atom. Representation of dynamical variables as operators and matrices; introduction to perturbation theory.

Prerequisites: PHY 213 Modern Physics and PHY 319 Analytical Mechanics

351. Solid State Physics

Study of the properties of crystalline solids. Starting with a study of crystal structure, reciprocal lattice structure, energy bands, and the free electron gas, physical models will be developed to explain the electrical, magnetic, thermal, and optical properties of solids.

Prerequisite: instructor permission

POLITICAL ECONOMY AND PUBLIC POLICY

Co-Directors: Professors Christopher Herrick and James N. Marshall

Additional Contributing Faculty:

Professors: Heitmann, Kish-Goodling, Raymond, Slane

Associate Professors: Borick, Dale, Hashim, Knox

Assistant Professors: Mello

PEPP Advisors: Herrick, Marshall, Hashim

Our economic system does not operate in a vacuum. The issues we address as a society, such as taxation, environmental protection, regulation of business and trade policy, and the policies we adopt are greatly influenced by the political interests of powerful constituencies. A variety of interest groups, including labor unions, large corporations, taxpayers, consumers, environmentalists, retired citizens, and women,

attempt to achieve economic ends at least in part by political means. The Political Economy and Public Policy major is designed to make explicit these interactions between the economic and political systems. This is achieved by requiring the completion of course work in both economics and political science. This program of study should be of interest to students who believe that intellectual challenge during their college years will help them succeed both in the world of work and as good citizens. More specifically, the political economy and public policy major is excellent preparation for those interested in careers in the public policy arena or those who intend to pursue graduate study in either economics, political science, or the law.

Students in this major may not take any courses in economics or political science on a pass-fail basis. To continue as a major, the student must maintain a 2.000 grade point average in all course work in the program. Majors may satisfy the writing intensive course requirement for the major in economics or political science.

Major Requirements

Prerequisites:

ECN 101 Principles of Macroeconomics
 ECN 102 Principles of Microeconomics
 PSC 103 Introduction to Comparative Politics & International Relations
 PSC 101 Introduction to American National Government
 MTH 121 Calculus I

Core Courses:

PSC 313 or 314 Policy Analysis & Technology*
 PSC 960 Internship in Local Government
 ECN 220 or 221 Intermediate Microeconomic Theory
 ECN 222 or 223 Intermediate Macroeconomic Theory

Required Pair:

ECN 336 or 337 History of Economic Thought **AND**
 PSC 343 or 344 International Political Economy

Elective Pair (choose one):

- I. ECN 332 or 333 Public Finance **AND**
 PSC 219 or 220 Public Administration **OR**
 PSC 221 or 222 Government Regulation of Business **OR**
 PSC 400 Seminar in Urban Policy & Planning
- II. ECN 334 or 335 International Trade & Globalization **OR**
 FIN 362 or 363 Multinational Financial Management **AND**
 PSC 256 or 257 American Foreign Policy **OR**
 PSC 339 or 340 Theories of International Relations
- III. ECN 245 or 246 Environmental Economics **OR**

ECN 249 or 250 Economics of Natural Resources & Sustainability **AND**
PSC 216 or 217 Environmental Politics & Policymaking **OR**
PSC 330 or 331 Comparative & International Environmental Policies

IV. ECN 243 or 244 Healthcare Economics **AND**
PSC 213 or 214 Public Health Policy

V. ECN 336 or 337 Economic Growth & International Development **AND**
PSC 232 or 233 Governments & Politics of East Asia **OR**
PSC 244 or 245 Governments & Politics of Latin America **OR**
PSC 237 or 238 Governments & Politics of Africa **OR**
PSC 248 or 249 Governments & Politics of the Middle East

With the approval of the appropriate program director, a seminar or special topics course may be substituted for an economics or political science course in the optional pair area. PSC 960, Internship in Local Government, will be arranged to meet the student's particular interests.

*Prerequisite for PSC 313 or 314 Policy Analysis & Technology may be waived by permission of the instructor for Political Economy majors.

POLITICAL SCIENCE (PSC)

Department Chair: Associate Professor Jack Gambino

Professors: Herrick, Slane

Associate Professor: Borick, Hashim

Assistant Professors: Deegan, Mathews-Gardner, McRae

Political Science is a discipline that aims to understand, analyze, and evaluate governmental institutions, public policy, political ideas, and collective action within societies and among nations. By introducing students to the tools of the discipline – its theories, concepts and research methods – the study of political science enables students to explore the power relationships, social-economic conditions, and ideological commitments that shape political action and public argument in a diverse and globally interdependent society. The Political Science Department takes seriously the mission at the heart of the liberal arts education: cultivating thoughtful, articulate, active, and responsible citizens. In doing so, the department offers courses and research experiences emphasizing the development of writing skills, critical thinking, and active and intelligent engagement with issues affecting contemporary public life. Political Science students develop an array of skills and experiences that lead to careers in federal, state, and local government; international organizations; law; nonprofit organizations and associations; campaign management and polling; journalism; teaching; and graduate study. Students interested in politics and government may also consider several interdisciplinary majors with a substantial political science component. These majors are History/Government, International

Studies, Philosophy/Political Thought, and Political Economy/Public Policy. The department strongly encourages its students to participate in a study abroad experience and a Washington, D.C. or local internship.

SPECIAL PROGRAMS

Honors Program

Exceptional students in Political Science are invited to propose a research project for honors consideration during their senior year. Proposals must be submitted by the beginning of the spring semester. Applicants will work closely with a faculty member in developing and completing an honors thesis using empirical or theoretical research methods. To be eligible for honors, students must meet the following requirements:

1. A 3.75 GPA in political science courses and an overall 3.50 GPA at the beginning of the first or second semester of the senior year.
2. Honors candidates will enroll in either a political science seminar or an independent study during their senior year.
3. The student will present and successfully defend his or her thesis in a public forum before political science faculty and students. After the thesis defense, department faculty will determine the award of honors.

Semester in Washington, D.C.

Since 1986 Muhlenberg College has participated in a Washington semester program: The Lutheran College Washington Semester. The program is sponsored by the thirteen colleges in the Lutheran College Washington Consortium and is open to political science majors and minors.

PROGRAM REQUIREMENTS

Major Requirements

The departmental courses are organized into four groups which represent the major subdivisions within political science as recognized by the American Political Science Association: American Government, Comparative Politics, International Politics and Foreign Policy, and Political Theory. Majors will complete a minimum of ten courses in at least three subfields. Additionally, at least one writing intensive course in political science and a minimum of three courses at the 300 level or above are required for majors.

Required Courses:

- PSC 101 Introduction to American National Government
- PSC 103 Introduction to Comparative Politics & International Relations
- PSC 201 Political Ideologies

PSC 301 Political Science Research Methods

Six advanced courses with three at the 300 level or higher and at least one from three of the following areas:

- American Government and Political Processes
- Comparative Politics
- International Politics and Foreign Policy
- Political Theory

Introductory courses and Political Ideologies should normally be completed by the end of the sophomore year. Research Methods should be taken in sophomore or junior years. Majors must maintain at least a 2.00 grade point average in political science courses to remain in good standing in the department. No more than one internship and no more than two additional courses taken outside the department will count toward the political science major. Selected courses in philosophy, sociology, economics, and history are recommended for majors. Foreign language competency is strongly recommended for majors.

Majors are urged to participate in the Washington Semester, study abroad programs, service learning and community-based research experiences, and internship opportunities with the Muhlenberg Institute of Public Opinion. All majors are eligible for internship programs in local, state, and national governments, as well as in appropriate nongovernmental organizations. Consult with faculty in the department to discuss internship opportunities.

Minor Requirements:

Political science offers a minor program with three options, all of which require the completion of six courses.

General (total of six courses):

- PSC 101 Introduction to American National Government
- PSC 103 Introduction to Comparative Politics & International Relations **OR**
- PSC 201 Political Ideologies
- Two 200 Level Courses
- Two 300 Level Courses

American Government and Political Processes (total of six courses):

- PSC 101 Introduction to American National Government
- PSC 201 Political Ideologies
- Two 200 Level Courses in American Government
- Two 300 Level Courses in American Government

Comparative Politics and International Politics (total of six courses):

- PSC 101 Introduction to American National Government
- PSC 103 Introduction to Comparative Politics & International Relations
- Two 200 Level Courses in Comparative Politics and/or International Relations

Two 300 Level Courses in Comparative Politics and/or International Relations

Courses in political science are numbered as follows:

100-199: introductory courses open to all students; required for the major

200-299: intermediate courses normally open to students beyond the first semester of college

300-399: advanced courses with previous course work in political science normally required; usually require a significant research project

400-499: seminars with intensive reading; recommended for juniors and seniors with substantial work completed toward the major; strongly encouraged for those seeking honors in political science

INTRODUCTORY COURSES

101. Introduction to American National Government

This course examines the constitutional foundations, institutions, and processes of American national government. Key issues explored in the course include relationships between, and powers among, the main institutions of government—Congress, the Presidency, the Judiciary; citizenship and political behavior; campaigns and elections; political parties; the media; interest groups; and a range of contemporary public policy issues.

Meets general academic requirement B.

103. Introduction to Comparative Politics & International Relations

The course provides a basic introduction to core concepts and problems in the fields of international relations and comparative government. Key issues explored in the course include how and why nation-states apply their power to act cooperatively, why they occasionally resort to violence to settle disputes, and how and why states differ in their organization and in their relationship between citizen and government.

Meets general academic requirement B.

201. Political Ideologies

An examination of the philosophical and historical foundations of major political ideologies of the modern era. Students will investigate how ideologies make claims about human nature, history, and the state; how they attempt to understand the relationship between socio-economic conditions and the state; how they envision a just political order; and how they prescribe and justify programs of action. Among the ideologies examined: liberalism, civic republicanism, conservatism, socialism, communism, anarchism, nationalism, fascism, Nazism, fundamentalism, and feminism. *Intended for those planning to major or minor in political science.*

301. Political Science Research Methods

This course is intended to provide students with the essential methods for the analysis of political phenomena. In this course, students receive an overview of the principles of research design, as well as an introduction to the fundamental techniques involved in the quantitative analysis of data. Specific aspects of the course include quasi-experimental design, hypothesis testing, measurement, and ethical considerations in the research process. The goal of the course is to provide students with the necessary training to be competent consumers of empirical analyses, as well as to give them a foundation for the study of advanced quantitative research techniques.

Prerequisites: PSC 101 and PSC 103. A course in statistics (MTH 104 or 144) is recommended.

AMERICAN GOVERNMENT AND POLITICAL PROCESSES

Courses in the American government and political process subfield focus on the institutions, actors, inputs, and outcomes of the American political process and the role of citizenship within the broader society.

203, 204. Civil Rights & Liberties

An examination of the Fourth, Fifth, Sixth, and Eighth Amendments of the United States Constitution and their protection of the rights of criminal defendants.

Meets general academic requirement B (and W which applies to 204 only).

205, 206. Constitutional Law I

An examination of the origins of and limitations on judicial review; the constitutional sources of national authority, with special focus on the nature and scope of the commerce and tax powers; the constitutional limitations on presidential and congressional power; and selected First Amendment freedoms.

Meets general academic requirement B (and W which applies to 206 only).

207, 208. Constitutional Law II

An examination of the incorporation of the Bill of Rights; the rise and demise of substantive due process; the concept of state action; federal enforcement of civil rights; the nature and scope of equal protection of the law; and selected First Amendment freedoms.

Meets general academic requirement B (and W which applies to 208 only).

209, 210. Political Parties & Elections

This course is designed as an introduction to political parties and elections in the United States. It examines such topics as the historical development of political parties, the election process, voting behavior, media coverage, and campaign strategy. The course is designed to provide a basic understanding of the workings of both political parties and election campaigns in the United States. Through lectures, discussions, readings, and assignments, students' ability to analyze and evaluate the United States party and elections systems will be enhanced.

Meets general academic requirement B (and W which applies to 210 only).

213, 214. Public Health Policy

The course is a survey of contemporary issues related to the provision of public health policies in the United States. From disease control to the provision of health insurance, government plays a central role in the field of American health care. Therefore, this course provides attention to numerous aspects of government interaction in the area of health policy, including the funding of research, regulation of pharmaceuticals, management and prevention of epidemics, and the provision of medical insurance. The class is designed for students interested in pursuing careers related to public health or with a general interest in the field. Course requirements include a number of research projects and required service experiences in local health care locations such as Allentown's health department and local medical clinics. The class will also include a simulation that examines the decision making process that is used by the Center for Disease Control (CDC) in addressing a potential outbreak of an infectious disease.

Meets general academic requirement B (and W which applies to 214 only).

216, 217. Environmental Politics & Policymaking

A study of recent and contemporary U.S. environmental policy and its formulation. The course examines the political and institutional settings and constraints on the formulation of environmental policy, including the role of the President, Congress, the courts, bureaucracy, state governments, and interest groups. Attention will also be given to theoretical issues as they arise out of, and influence, the policy making process. In addition, the course will examine the interaction of global environmental problems and domestic policy making.

Meets general academic requirement B (and W which applies to 217 only).

219, 220. Public Administration

An examination of the theory and practice of managing the public sector with emphasis on the politics of administration, organization structures, communications, decision-making systems, budgeting processes, and personnel management.

Meets general academic requirement B (and W which applies to 220 only).

221, 222. Government Regulation of Business

An examination of the legal framework (the legislatures, the courts, and government agencies) and business's major legal responsibilities as established in the following subject areas: administrative law, the Bill of Rights, antitrust, labor relations, employment discrimination, federal consumer protection, and regulation of environmental quality.

Meets general academic requirement B (and W which applies to 222 only).

303, 304. Gender, Politics, & Policy

Gender both shapes and is shaped by politics. This course explores this fundamental proposition in the context of several primary themes, including feminist political activism in historical perspective; women in American electoral politics (both mass politics and as political elites); globalization and gender equity; and gender and public policy. A major portion of the course is devoted to considering contemporary public policy issues through the lens of gender—as it intersects with race, class, and other social divisions—focusing on policies such as welfare, sexual harassment, reproduction and women's health, and gender discrimination in sports, education, and the military.

Prerequisite: PSC 101 or WST 101 or permission of instructor.

Meets general academic requirement B (and W which applies to 304 only).

305, 306. U.S. Congress

This course addresses several empirical and analytical questions about Congress and the legislative process: What does Congress do? How do members of Congress get elected and stay in office? How do legislators "represent" us? How does the institution of Congress function as a lawmaking body? What really matters in congressional decision-making processes? How has Congress and congressional lawmaking changed throughout U.S. history? In brief, this course is organized around the history, members, workings, and future of the U.S. Congress.

Prerequisite: PSC 101 or permission of instructor.

Meets general academic requirement W when offered as 306.

307, 308 Civic Engagement & Political Participation

Who participates in politics, how, why, and to what effect? Why do social groups adopt particular political strategies and not others? What are the consequences of public participation in democracy and the American political process? How do different contexts of participation and methods of involvement shape outcomes? This course approaches these questions broadly, considering, for example, the role of voluntary organizations and civic groups in American political life; the factors that lead citizens to (or limit) participation in both electoral and non-electoral activities; and the ways that these themes relate to concepts of citizenship, civil society, and deliberative democracy.

Prerequisite: PSC 201.

Meets general academic requirement B (and W which applies to 308 only).

309, 310. The American Judiciary

This course examines the nature and function of law, as well as the organization of the American court systems and the legal process. Consideration given to developing students' understanding of the role of the law in American society, the organization of state and federal judicial systems, the civil and criminal court processes, and judicial decision-making and policy-making process.

Prerequisite: PSC 101.

Meets general academic requirement W when offered as 310.

311, 312. The American Presidency

The presidency is an institution that is shaped by historical, systemic, and contextual factors. This course examines the intellectual and historical roots of the American presidency, its possibilities and limitations in

relation to other political institutions, and its relation to the citizenry. The course examines the creation of the presidency, its development as a democratic institution, the emergence of “presidential greatness” in the 20th century, and the expansion of national administrative power. A main focus is placed on understanding changes in executive power over time, placing recent contemporary events in historical context.

Prerequisite: PSC 101 or permission of instructor.

Meets general academic requirement H (and W which applies to 312 only).

313, 314 Policy Analysis & Technology

This course is developed as an introduction to the fundamentals of policy analysis design and the use of contemporary forms of policy analysis technology. The rapid and vast growth of information technology has helped to reshape the field of policy analysis. The collection, analysis, and dissemination of data for the purpose of the development and evaluation of public policies rest upon an ever increasing array of technological aids. In this course students will study the process of policy analysis through a focus on the development of empirical models, survey research designs, and various assessment methods such as cost-benefit analysis. In addition to the focus on methodologies, students will be introduced to a number of technological tools such as geographic information systems (GIS), computer aided telephone interviewing (CATI), web based survey software, and statistical software packages such as SPSS.

Prerequisite: PSC 101 and PSC 301.

Meets general academic requirement W when offered as 314.

400. Seminar in Urban Policy & Planning

This seminar is designed as an exploration of urban politics and planning in the United States. Its purpose is to provide an improved understanding of the workings of urban political systems and the mechanisms by which government attempts to manage urban environments. The course will examine both historical and contemporary aspects of urban politics with an emphasis on the evolution of governmental arrangements in the last century. It will also focus on contemporary urban problems such as transportation, housing, and crime and, finally, will examine the basic foundations of urban planning and its application throughout cities in the United States. *Course limited to juniors and seniors.*

Prerequisite: PSC 101 and PSC 301.

410. Seminar in American Political Development

American Political Development is an approach to American politics that emphasizes history, political culture, and institutions as these shape the development of public policy, political conflict, and citizenship. The course draws from the disciplines of history and sociology to enlarge our understanding of state-society relationships, and it utilizes a variety of methodological approaches, including broad-based theory building and careful archival research and a variety of competing theoretical frameworks to explain patterns of change and continuity in American politics. Students will complete a significant research project focusing on key transformations and patterns in American history and development; honors students may modify and use this project for a senior thesis. *Course limited to juniors and seniors.*

Prerequisites: PSC 101 and 201. Two additional courses in the American government subfield are strongly recommended.

COMPARATIVE POLITICS

Comparative Politics is the comparative study of political phenomena, including political institutions, behavior, and ideas in countries other than the United States. The sub-discipline studies the domestic politics of foreign nations with a focus on how power is organized and exercised.

230, 231. Government & Politics of Europe

This course introduces students to European politics in the post-Cold War era. The course focuses on political, economic, and social continuity and change in Western, Southern, and East-Central European nations. Taught from a broad regional perspective, the course will analyze the role of institutions and actors in shaping the dynamic political processes in the nations of Europe. Special attention is given to their economic and political interactions and their ramifications for the European integration process. This course serves as prerequisite to European Union (370 or 371).

Meets general academic requirement B (and W which applies to 231 only).

232, 233. Governments & Politics of East Asia

Analysis of the contemporary political systems of East Asia, primarily China and Japan, in their social and cultural settings, historical background, and dynamics of modernization.

Meets general academic requirement B or D (and W which applies to 233 only).

237, 238. Governments & Politics of Africa

This course will examine the domestic politics and international relations of Africa. In particular, the course will explore common problems faced by these states, including the formation of viable political systems, the implementation of policies to promote economic development, and the conduct of viable foreign policies. The course will also examine the effect of historical culture, economic conditions, and colonial penetration upon the formulation and conduct of public policy in Africa.

Meets general academic requirement B or D (and W which applies to 238 only).

244, 245. Government & Politics of Latin America

A study of the political processes within the Latin American region; the historical and cultural contrasts with North American-European politics; and the social, political, and economic development problems which continue to face this region. Particular attention will be given to Mexico, Colombia, Chile, Brazil, Argentina, and a representative number of other nations in Central America, South America, and the Caribbean region.

Meets general academic requirement B or D (and W which applies to 245 only).

246, 247. Developing Nations

A study of the politics of developing nations, their struggles to overcome poverty and underdevelopment, their efforts at nation-building, and their impact in the world. The challenges and dilemmas of modernization and contending theories about the causes of underdevelopment and appropriate development strategies will be discussed.

Meets general academic requirement B or D (and W which applies to 247 only).

248, 249. Governments & Politics of the Middle East

This course will examine the domestic politics and international relations of the Middle East. In particular, the course will examine the effect of historical culture, economic conditions, and colonial penetration upon the current political conditions of the area.

Meets general academic requirement D (and W which applies to 249 only).

370, 371. European Union

This course considers the ideas and political practices that underlie the “European Union”. It explores the potential of an emerging political entity that would be at a minimum an emerging economic superpower. The associated, basic debate over what it means to be a “European” also raises important issues of political culture and national identity.

Prerequisite: PSC 230 or 231.

Meets general academic requirement W when offered as 371.

374, 375. Government & Politics of Russia

The course evaluates in-depth the contemporary political, economic, and social changes in post-Soviet Russia. Students will analyze the challenges facing Russia’s transition to markets and democracy. We will look at how the legacy of the Soviet experience impacts the democratization and marketization processes in Russia today. Students will also study and evaluate the efficacy and viability of the new institutions regulating political and economic life in post-Soviet Russia. The course will focus on the political struggles surrounding institutional choice and policy making in contemporary Russia. The course will pay particular attention to reforms undertaken by President Vladimir Putin since 2000.

Prerequisite: PSC 103

Meets general academic requirement W when offered as 375.

420. Seminar in Regimes & Regime Changes

The course is designed to introduce students to modern democratic, authoritarian, and totalitarian political systems (regimes). We will study how power is organized and exercised in the various political systems of the world. Students will learn about institutions and processes that shape domestic politics in various regimes. They will also learn about processes that explain why and how political regimes change. The course will analyze the causes of breakdown, as well as consolidation of democratic and non-democratic regimes. Iraq will be used as a case study.

Prerequisite: PSC 103. Two additional courses in the Comparative and/or International subfields are strongly recommended.

430. Seminar in Comparative National Security Policy

This course uses a comparative approach to examine national security policy processes in the United States and a selected group of countries. Students will engage in policy analyses that examine the impact of a range of factors—including the international system, the size of the state, historical and societal factors, governmental system, bureaucratic politics, and individual personalities—in determining the national security policies of these states.

Prerequisite: PSC 103. Two additional courses in the Comparative and/or International subfields are strongly recommended.

INTERNATIONAL POLITICS AND FOREIGN POLICY

International Politics is the study of the interaction among nations, international organizations, and an increasing range of non-state or nongovernmental actors, such as multinational corporations, terrorist organizations, etc. International relations also seeks to explain the processes by which this wide range of actors attempt to address the increasingly broad range of security, development, and environmental issues facing the world.

242, 243. Introduction to Conflict & Peace Studies

This is an introductory course in the interdisciplinary field of conflict and peace studies which examines different approaches to conflict definition, management, and resolution. Fundamental issues of peace, war, conflict, and violence are discussed from a variety of perspectives within the political science and international studies paradigms.

Meets general academic requirement B (and W which applies to 243 only).

254, 255. Globalization & Social Justice

Interdependence and globalization have brought the world closer to American citizens. As their lives become more inter-connected with the dynamics of international market and political forces, the traditional distinctions between local and global concerns begin to fade. The events of September 11th, wars in Afghanistan and Iraq, and the cycles of anti-globalization social mobilization have made us acutely aware that national security or national economic prosperity can no longer be conceived apart from the international context. As issues concerning Americans become more "intermestic", the avenues and scope for affecting socioeconomic and political transformation also change. The course aims to further student understanding of the complex phenomenon of globalization and its impacts. We will analyze how citizens, as social actors, respond to the new challenges posed by globalization. Students will look at how issues of global socioeconomic and political justice are addressed by various citizen groups, social movements, and non-governmental organizations (NGOs) in areas as diverse as human rights, environmental concerns, cultural diversity, and economic welfare.

Meets general academic requirement B (and W which applies to 255 only).

256, 257. American Foreign Policy

A study of the evolving nature of the formulation and conduct of American foreign policy, including the impact of an emerging international civil society on the policy formulation process since World War II. The course will emphasize contemporary issues such as North-South relations, defense, humanitarian

intervention and disarmament, international trade, as well as emerging issues such as international resource management, pandemic disease control, and transnational organized crime.
Meets general academic requirement B (and W which applies to 257 only).

328, 329. International Law & Organization

The course will study the development and role of international law and international organizations (the United Nations, regional, and functional organizations) in the regulation of interactions among nation-states. The view of Western, communist, and less developed states toward these institutions will be examined. It will focus on issues such as the rights and obligation of states, treaty law, and the role of international organization in maintaining the peace and promoting the improvement of the physical conditions of humankind. Students will be expected to provide brief analyses of hypothetical cases in international law plus an in-depth analysis of an issue facing international organizations.

Prerequisite: PSC 103.

Meets general academic requirement W when offered as 329.

330, 331. Comparative & International Environmental Policies

The course will examine the domestic and global dimensions of environmental politics. Subjects covered will include atmospheric issues, coastal and ocean pollution and multiple resource use, land resources, biodiversity, international river systems, environmental refugees, and population. It will compare policy-making in the European Union, ASEAN, NAFTA, and the United Nations systems.

Prerequisite: PSC 103.

Meets general academic requirement W when offered as 331.

339, 340. Theories of International Relations

A critical analysis of the current and historical theories of international relations, including the nation-state system, balance of power, and societal and governmental factors predisposing nations to peace and war. The course will also explore emerging theories of decision-making at the national and international level, as well as the growing role of transnational relations.

Prerequisite: PSC 103.

Meets general academic requirement W when offered as 340.

343, 344. International Political Economy

The course examines the complex relationship between politics and economics in the global system. Students will analyze inter-connected themes such as the relationship between power and wealth, the politics of international trade and international monetary management, globalization's impact on international, regional and national economies. There is a particular focus on the theories and practice of international development.

Prerequisite: PSC 103.

Meets general academic requirement W when offered as 344.

440. Seminar in International Studies

The course will focus on an emerging issue in international relations. Potential topics would include democratization, cross-cultural communications, sustainable development, regional organizations, the management of international trade, conflict resolution, peace-making efforts in selected geographic regions, etc. It will provide the students with an opportunity to engage in cooperative learning through the development of policy analyses of various aspects of selected issues in international relations.

Prerequisite: PSC 103. Two additional courses in the Comparative and/or International subfields are strongly recommended.

POLITICAL THEORY

Political theory involves the critical examination of the ideological and philosophical underpinnings of political communities, the analysis and evaluation of ideas that animate contemporary political arguments, and the interpretation of classic texts in the history of political theory.

260, 261. American Political Thought

An examination of the major political ideas and ideological arguments influencing the development of political institutions and democratic practices in the United States. Attention is given to the debates leading to the ratification of the Constitution, as well as to important 19th and 20th century political figures and intellectuals who challenged and reshaped our understanding of the Constitution and the American Founding. Consideration is also given to contemporary political thought such as feminism, multiculturalism, and environmentalism.

Meets general academic requirement P (and W which applies to 261 only).

262, 263. Utopia & Its Critics

An examination of utopianism and realism as contrasting modes of political thinking. By examining the works of thinkers such as Plato, Thomas More, Bellamy, and Morris, the course will consider the meaning, justifications, and functions of utopian thought, both as a blueprint for a just society and a genre of social criticism. The course will consider anti-utopian or realist thinkers such as Thucydides, Machiavelli, and Hobbes who insist on a sober assessment of power as the basis of political and social order. Readings will be drawn from classic texts in political philosophy and literature, as well as contemporary representatives of utopian and realist thought.

Meets general academic requirement P (and W which applies to 263 only).

264, 265. Politics & Public Space

This course considers how ideas about the use and meaning of public space – such as neighborhoods, city streets, marketplaces, parks, public monuments – frame political conflicts on issues such as social justice, environmental protection, and historical preservation. We examine how laws, socio-economic forces, and cultural values give shape to public spaces and how such spaces are transformed by the political struggles over their access, control, and meaning. We consider questions such as: What is public space? How is it constructed, interpreted, and contested? Who defines the boundaries between public space and private property? Who has the right to access public space? We also consider how social-economic forces such as suburbanization, globalization, and privatization are reshaping public space.

Meets general academic requirement B (and W which applies to 265 only).

348, 349. Democratic Theory

This course examines important contributions to the meaning and practice of democracy drawn from both classic and contemporary sources, including representatives of the liberal, communitarian, civic republican, and Marxist traditions of thought. Among the issues considered are the nature and scope of democratic citizenship; the forms of participation; civic education; deliberation and representation; issues of identity and difference; the social and economic conditions needed for democratic politics; and the structure of democratic institutions. Thinkers who may be considered are Aristotle, Rousseau, Tocqueville, Mill, Dewey, Dahl, Carole Pateman, Arendt, Havel, and other contemporary theorists.

Prerequisite: PCS 201 or PSC 260 or 261 or PSC 262 or 263 or any course in political philosophy offered in the Philosophy Department.

Meets general academic requirement P (and W which applies to 349 only).

356, 357. War & Justice.

This course considers the relationship between international relations, statecraft, and ethics through an examination of the just war tradition in Western political thought. The moral arguments of both ancient and contemporary theorists of just war will be examined along with their application to modern conflicts such as World Wars I and II, Vietnam, and the Persian Gulf War.

Prerequisite: PSC 103.

Meets general academic requirement P (and W which applies to 357 only).

450. Seminar: Modernity & Its Discontents

Does modernity have a future? Modern liberalism, socialism, and communism grew out of the Enlightenment faith in progress, reason, and emancipation, each promising an expansion of freedom and equality through the human mastery of nature. Yet the catastrophes of the 20th century have revealed darker forces at work in the modern era: world wars, alienation, totalitarianism, genocide, environmental deterioration, and terrorism. This seminar considers those political and social critics who offer both a

diagnosis of and a cure for modernity's discontents. Thinkers may include Nietzsche, Marx, Henry Adams, Freud, Max Weber, Arendt, Marcuse, and Foucault.

Prerequisite: PCS 201 or PSC 260 or 261 or PSC 262 or 263 or any course in political philosophy offered in the Philosophy Department. For juniors and seniors only.

Internships

960. Political Science Internship

An opportunity for selected students to gain insight into and understanding of the operations and objectives of local government agencies or nongovernmental organizations. Pass-fail only.

PSYCHOLOGY (PSY)

Department Chair: Professor Laura Edelman

Professors: Harring, Tjeltveit

Associate Professors: Rudski, Sciutto, Wolfe

Assistant Professors: Bips, Richmond, Sinnio

Visiting Lecturer: Wurf

Psychology is the scientific study of human behavior. The major is designed to permit a wide range of selectivity while maintaining requirements which will give an excellent background in and knowledge of what constitutes the science of psychology. Students with a wide range of interests either major in psychology or complete a number of psychology courses. A major in psychology will give students the necessary background to go on to graduate school in any area of psychology (e.g., clinical, counseling, development, social, or experimental) or to gain employment. The study of psychology provides an excellent background for students interested in careers in a variety of areas, such as the health professions, human resources, law, education, business, biology, or the natural sciences.

SPECIAL PROGRAMS

Honors Program

An honors program featuring advanced original research and a close working relationship with a faculty member is available to qualified psychology majors. To be considered for acceptance into the honors program, students must have an overall grade point average of 3.300 or better and a psychology grade point average of 3.700 or better and reach an understanding with a faculty member to sponsor their project. Student work will be advised and evaluated by an Honors Committee. The committee is composed of three members: a psychology faculty member who has agreed to serve as the primary thesis advisor and two additional faculty or "outside" advisors (chosen by the student in collaboration with the thesis advisor). This committee must be in place at the time of application. Students accepted into the program complete two semesters of independent research, write a thesis based on original empirical or

theoretical work, and make an oral defense of the thesis at a colloquium attended by faculty and students. Students electing a multi-disciplinary research topic (e.g., philosophical psychology or biopsychology) should have completed relevant coursework in another discipline. In these cases, a faculty member from the related discipline should be a member of the Honors Committee. Graduation honors will be granted only if the Honors Committee approves the student's finished thesis. Students interested in honors in psychology should complete the application (available on-line or in the Psychology Office) by April 15th of their junior year if completing Honors in a fall-spring semester sequence, or November 15th if Honors will be completed in a spring-fall semester sequence.

Teacher Certification

Students who are accepted into the Elementary certification program may count EDU 201 Exceptional Learner to satisfy one of the courses in the Advanced Course and Seminar requirement, and they may count EDU 102 or 103 Educational Psychology as an elective in the Psychology major. Admission to elementary student teaching requires a 2.50 grade point average in the psychology major.

MAJOR REQUIREMENTS

Majors will complete a minimum of ten courses in the department.

Required Courses:

PSY 101 Introductory Psychology

One of the following cognate courses which is a prerequisite for Psychological Statistics:

MTH 104 Statistical Methods **OR**

MTH 121 Calculus I

PSY 103 Psychological Statistics

PSY 104 Research Methods in Psychology

Three additional courses with at least one elective from each of the following areas:

Fundamental Processes

Social and Personality

Clinical and Developmental

Two additional courses from the following area:

Advanced Courses and Seminars

One additional course from Advanced Laboratory

One elective course from the list of course offerings

PSY 101 Introductory Psychology is a prerequisite for all other psychology courses. Majors may meet the requirement for a writing intensive course in the major by completing one of the required advanced laboratory courses.

A grade point average of at least 2.000 in psychology courses must be maintained in order to remain a major in the department. Opportunities for internships and individual research projects that contribute to the degree are available for majors who have demonstrated the capability for independent work. Only one course unit of Independent Study/Research or one course unit of Internship can be counted toward the ten required courses.

COURSES

101. Introductory Psychology

A survey of all the major areas of psychology. Includes an orientation to the attitudes and methods of the psychologist, the physiological basis of behavior, growth and development, sensation, perception, conditioning, human learning, cognitive processes, social interaction, personality, conflict adjustment, methods of measurement, behavior disorders, and applied psychology.

Meets general academic requirement B.

103. Psychological Statistics

Introduction to the role of statistical analyses in testing hypotheses in psychology. Students will learn both descriptive and inferential uses of statistics as they apply to a variety of research designs commonly used in psychology. This course also emphasizes scientific writing and the use of SPSS to conduct statistical analyses.

Prerequisite: PSY 101 Introductory Psychology and MTH 104 Statistical Methods or MTH 121 Calculus I

104. Research Methods in Psychology

An exploration of the methodological issues and strategies that are most germane to research in psychology. Topics include types of research designs, ethics, measurement, library resources, and a review of data analysis procedures. Scientific writing and oral presentations of research results will be emphasized. Four hours lecture/lab.

Prerequisite: PSY 101 Introductory Psychology and PSY 103 Psychological Statistics

FUNDAMENTAL PROCESSES

201. Learning & Behavior

An investigation of how our behavior is changed by experience. Topics will include the nature-nurture issue, conditioned reflexes, operant conditioning, observational learning, reinforcement schedules, punishment, and the stimulus-control of behavior.

Prerequisite: PSY 101 Introductory Psychology

207. Sensation & Perception

Exploration of the human sensory systems and perception. The course is focused on investigating the relationship between our conscious experience of the world and the anatomy and physiology of the sensory systems. We start with very basic sensory coding and work up to looking at individual differences and the influence of learning and development on perception. There is an emphasis on classroom demonstrations and laboratory experiences. All students run a perception experiment.

Prerequisite: PSY 101 Introductory Psychology

Meets general academic requirement S.

208. Biological Psychology

A study of the nervous system and physiological processes directly related to behavior in human beings and animals. The mechanisms underlying sensory and motor processes, learning, emotion, and innate behavior patterns.

Prerequisite: PSY 101 Introductory Psychology

Meets general academic requirement S.

SOCIAL AND PERSONALITY

202. Social Psychology

The study of social influences on individual behavior, including topics in social cognition, attitude change, interpersonal behavior, social influence, and small group behavior.

Prerequisite: PSY 101 Introductory Psychology

203. Personality Psychology

Historical (e.g., Freud, Skinner, Rogers) and more contemporary (e.g., the “Big Five,” cognitive theory) approaches to personality are explored. Current research topics in the field of personality psychology are also addressed (e.g., gender identity, aggression, self-esteem, the unconscious). Not recommended for students in the first semester of their first year.

Prerequisite: PSY 101 Introductory Psychology

CLINICAL AND DEVELOPMENTAL

204. Child Psychology

Emotional, mental, physical, and social development of the child from birth to puberty, including maladjustments and deviations in these areas. Twenty hours of morning fieldwork required. When registering this course, students need one 3-hour morning period free for fieldwork. Not recommended for first year students.

Prerequisite: PSY 101 Introductory Psychology

205. Psychology of Adolescence

A study of the development and behavior of the adolescent in American society. The course will also touch upon special topics such as drugs, delinquency, teenage pregnancy, suicide, etc. Twenty-four hours of afternoon fieldwork is encouraged. When registering this course, students need one 3-hour afternoon period free for fieldwork. Taught in the spring semester.

Prerequisite: PSY 101 Introductory Psychology. PSY 204 Child Psychology recommended.

213. Abnormal Psychology

An exploration of psychological problems ranging from the commonplace to the bizarre. The classification, assessment, causes, course treatment, and prevention of the major types of abnormal behavior will be addressed. Pertinent scientific research, narrative approaches, and major theories will be emphasized.

Prerequisite: PSY 101 Introductory Psychology

ADVANCED COURSES AND SEMINARS

301. Cognitive Processes

The study of human mental processes, including perception, attention, memory, problem solving, language, cognitive styles, and gender differences. All students participate in classroom demonstrations and run a cognitive experiment. This is an upper level class and is not recommended for first-year students. Recommended for teacher education candidates. Taught in the spring semester.

Prerequisite: PSY 101 Introductory Psychology and PSY 104 Research Methods in Psychology

302. History of Psychology

An exploration of how psychology’s understanding of human beings developed across history with a special emphasis on the early roots of contemporary debates, assumptions about human nature, and methods employed to understand people. Primarily for upper class majors, the course provides an overview of psychology especially helpful for those planning to attend graduate school.

Prerequisite: permission of instructor or three or more previous courses in psychology

304. Psychotherapy & Counseling

An exploration of psychotherapy theories and intervention strategies, scientific research on therapy process and outcome, the place of therapy in contemporary society, and a critical evaluation of therapeutic ideals. This course is not a practicum. Taught in the fall semester.

Prerequisite: PSY 101 Introductory Psychology and either PSY 203 Personality Psychology or PSY 213 Abnormal Psychology or permission of instructor and junior or senior standing.

305. Adult Personal & Cognitive Development

This course is designed for those students who are interested in becoming a Peer Learning Assistant. It explores adult development theories and research in humanistic, developmental, and behavioral psychology as they apply to adult learning, covering the work of Perry, Chickering, Gardner, Jung, Bandura, Rowley, Coleman, Flavell, Kolb, Sternberg, Hyerle, Bruffee, Mesirov, and others. Current research in instruction is applied to the American college classroom. May not be used by psychology majors to satisfy a requirement.

Prerequisite: instructor permission

Meets general academic requirement B.

306. Psychology of Adulthood & Aging

Designed to give a scientific perspective on growth and development in the post-adolescent years. The course will examine in-depth topics, such as the physiology of aging, adult intelligence, learning and memory in adulthood, stability and change in adult personality, psychopathologies of adult life, etc. A part of the course will also focus on adjustment problems of the adult in relation to the occupational world, marriage, family life, and retirement. Twenty hours of fieldwork will be required. When registering this course, students need one 3-hour period during the day free for fieldwork. Taught in alternate years.

Prerequisite: PSY 101 Introductory Psychology and PSY 205 Psychology of Adolescence and at least one other course in psychology. Recommended for juniors and seniors.

309. Psychological Assessment

Introduction to the theory and application of psychological tests as measures of personality, intellectual functioning, and attitudes. This course considers the use, abuse, and limitations of such measures and focuses on topics such as validity and reliability of tests; construction of tests, rating scales, and surveys; the administration of tests; and the interpretation of test results. Taught in alternate years.

Prerequisite: PSY 101 Introductory Psychology and PSY 103 Psychological Statistics. PSY 104 Research Methods in Psychology recommended.

310. Industrial/Organizational Psychology

This course is concerned with understanding the behavior of individuals in organizations and applying psychological knowledge to organizational problems. The focus of the course is on understanding the psychological principles at work in the workplace. Topics include job analysis, prediction and selection, training, performance appraisal, job satisfaction, motivation, leadership, and research methods.

Prerequisite: PSY 101 Introductory Psychology and PSY 103 Psychological Statistics or MTH 104 Statistical Methods

314. Psychology of Women

This course will examine theory and research on gender differences, specifically female gender development, taking into consideration biological, cognitive, behavioral, and social influences. Emphasis will be placed on a critical analysis of the assumptions about human behavior and the methods used to test these ideas. Topics include gender-role development, achievement motivation, women and work, sexuality and health, and violence against women. Taught in alternate years.

Prerequisite: PSY 101 Introductory Psychology and PSY 103 Psychological Statistics or WST 101 Introduction to Women's Studies

316. Child Psychopathology

An exploration of emotional, behavioral, developmental, and learning disorders in children and adolescents. This course emphasizes the interdependence of biological, psychological, and social/cultural factors in the etiology, course, and treatment of childhood disorders.

Prerequisite: PSY 101 Introductory Psychology and PSY 213 Abnormal Psychology

318. Psychopharmacology

An exploration of the key concepts and principles of how drugs and brain chemistry affect behavior. Topics will include basic pharmacology, research methods, states of consciousness, reinforcement and addiction, and the treatment of psychological disorders.

Prerequisite: PSY 101 Introductory Psychology and PSY 208 Biological Psychology or BIO 151 Principles of Biology II or permission of instructor

420-429. Perspectives in Psychology

This seminar course will allow in-depth study of an advanced topic in psychology such as health psychology, philosophical psychology, cultural psychology, or evolutionary psychology. Emphasis will be placed on acquainting students with emerging fields in psychology.

Prerequisite: varies with course topic

ADVANCED LABORATORY COURSES

401. Advanced Laboratory in Conditioning

A laboratory course exploring the basic variables in conditioning. Attention will be given to operant and respondent techniques with human and non-human animals. Emphasis will be placed on reinforcement schedules, discrimination, and motivation. Final projects will be presented in both oral and written form. Three hours lecture, two hours laboratory. Usually taught in the fall semester.

Prerequisite: PSY 101 Introductory Psychology, PSY 103 Psychological Statistics, PSY 104 Research Methods in Psychology, and PSY 201 Learning & Behavior or PSY 208 Biological Psychology

Meets general academic requirement W.

402. Advanced Laboratory in Social & Personality

A laboratory course exploring research methods that use human subjects to investigate social behavior. Emphasis will be placed on experimental and quasi experimental designs. Student conducted experiments are used to teach principles of measurement, control, and statistical application. Final projects will be presented in both oral and written form. Three hours lecture, two hours laboratory. Usually taught in the fall semester.

Prerequisite: PSY 101 Introductory Psychology, PSY 103 Psychological Statistics, PSY 104 Research Methods in Psychology, and PSY 202 Social Psychology or PSY 203 Personality Psychology

Meets general academic requirement W.

403. Advanced Laboratory in Perception & Cognition

A laboratory course exploring research methods that use human subjects to investigate phenomena in perception and cognition. Student conducted experiments are used to teach research design, the use of apparatus, and statistical application. Emphasis will be on experiments that investigate perceptual or cognitive processes. Final projects will be presented in both oral and written form. Three hours lecture, two hours laboratory. Usually taught in the spring semester.

Prerequisite: PSY 101 Introductory Psychology, PSY 103 Psychological Statistics, PSY 104 Research Methods in Psychology, and PSY 207 Sensation & Perception or PSY 301 Cognitive Processes

Meets general academic requirement W.

404. Advanced Laboratory in Clinical Research

Students explore quantitative and qualitative research methods used in contemporary clinical and counseling psychology to investigate psychological problems, the prevention of psychological problems, and the amelioration of psychological problems (e.g., in psychotherapy and counseling). By conducting their own research projects or participating in ongoing research projects, students learn about the logic of research, the process and methods of conducting research, and how to draw appropriate conclusions from research. Special attention is devoted to the various types of clinical research, experimental designs, data analyses and interpretation, emerging rigorous qualitative research approaches, and ethical issues. Students present final projects in both oral and written form. Five hours of class per week. Usually taught both semesters.

Prerequisite: PSY 101 Introductory Psychology, PSY 103 Psychological Statistics, PSY 104 Research Methods in Psychology, and PSY 213 Abnormal Psychology or PSY 304 Psychotherapy & Counseling

Meets general academic requirement W.

INDIVIDUALIZED INSTRUCTION

270. Psychology Research Apprenticeship

0.5 course unit

An elective course in which students learn a variety of important research skills and gain in-depth knowledge of a specialized topic in psychology by participating in a faculty member's ongoing research program. Experiences may include, but are not limited to, any of the following: gathering and analyzing information to develop proposals, stimulus development, data collection, statistical analysis, writing up results, and presenting results. Topics and course availability will vary by professor. Interested students should consult with individual faculty for more information. This course can be repeated and does not count toward the requirements for the psychology major. It will count toward the 4 course units of individualized instruction that can be earned toward the 34 course unit degree requirement.

Prerequisite: instructor permission

960. Psychology Internship

Prerequisite: instructor permission

PUBLIC HEALTH (PBH) (Minor only)

Director: Assistant Professor Susan Kahlenberg

The minor in public health is designed to offer students a basic interdisciplinary introduction to public health as a field of study and as a possible vocational choice. Preventing disease is central to public health, and the minor requires classes in science, mathematics, and particularly, the social sciences that focus on health related behaviors and their social influences and conditions that have an adverse impact on health and the population.

The minor prepares students for post-graduate work in public health. The core class, Issues in Public Health, is intended to introduce students to the five main areas of public health: biostatistics, health education, public policy, epidemiology, and environmental and occupational health. The minor also provides a focus for students interested in the health professions who wish to explore options beyond medical school and for students in the social sciences and humanities who wish to focus part of their studies on health related issues.

Students are strongly encouraged to undertake a service learning or other experiential learning experience in public health, such as a practicum or internship, before graduating and applying for graduate programs in public health. Such an experience may also be met by community service unconnected to a course.

Minor Requirements (seven courses)

- 1. Introduction and overview of public health:**
PBH 100 Issues in Public Health
- 2. Knowledge of statistics:**
MTH 104 Statistical Methods **OR**

MTH 144 Introduction to Statistical Analysis **OR**
MTH 332 Mathematical Statistics II **OR**
PSY 103 Psychological Statistics

3. Knowledge of human living systems and how they connect to society:

Students who major in Biology, Biochemistry, Environmental Science, Neuroscience, and Natural Science must have one course from List A (below).

Students who major in fields other than those listed above must take two courses from List A, at least one of which must be in Biology (BIO)

LIST A:

BIO 101 Human Biology, Science, & Society
BIO 105 Concepts of Biology in Practice
BIO 109 Bubonic Plague to AIDS
BIO 114 Humanity & the Biological World
BIO 118 Genes, Genomes, & Society
BIO 150 Principles of Biology I: Organisms & Populations
BIO 200 Human Anatomy & Physiology I
CHM 101 Chemistry of the Environment
CHM 102 Chemistry of Life
ESC 111 Topics in Environmental Science
ESC 113 Environmental Science I

4. Knowledge of the social, behavioral, cultural, and economic context of public health:

Students who major in Biology, Biochemistry, Environmental Science, Neuroscience, and Natural Science must choose 4 electives from a combination of List B and List C. All other majors must choose 3 electives from a combination of List B and List C. In all cases, the electives must be from at least 2 different disciplines **and at least one must be from List B.**

Students are encouraged to meet with the program director to choose electives appropriate to their interests in Public Health and appropriate to complement their respective majors.

LIST B (Courses Concerning Health, Medicine, or Disease)

COM 334 or 345 Health Communication
ECN 243 or 244 Health Care Economics
EST 350 Environmental & Cultural Conservation in Latin America
HST 345 or 346 Disease & Medicine in American History
HST 347 History of Public Health in America
PHL 241 Biomedical Ethics
PSC 213 or 214 Public Health Policy
PSY 213 Abnormal Psychology
PSY 421 Perspectives in Psychology: Health Psychology

LIST C (Related Electives)

BUS 260 or 261 Marketing in Not for Profit Organizations
 COM 336 or 337 Environmental Communication
 ECN 245 or 246 Environmental Economics
 EST 101 Introduction to Environmental Studies
 HST 341 or 342 Environmental History of the United States
 PHL 246 Environmental Philosophy
 PSC 216 or 217 Environmental Politics & Policy Making
 PSC 219 or 220 Public Administration
 PSY 208 Biological Psychology
 SOC 320 Environmental Sociology
 SOC 260 Human Population Growth
 PBH 960 or PBH 970 Practicum, Internship, Independent Study, or
 Independent Research **OR**
 Practicum, Internship, Independent Study, OR Independent Research in
 another related discipline approved by the program director.

100. Issues in Public Health

Using a topical approach, this course is designed to introduce students to the wide variety of disciplines associated with the field of Public Health. Based on the issue or issues selected as the focal point of the course, students will examine the global impact of disease from various points of view—historically, biologically, economically, psychologically, and politically. In doing so, the course will explore the roles of those in Public Health such as epidemiologists, health care managers, media broadcasters, health specialists, environmentalists, and public policy makers in maintaining the health safety of the public.

RELIGION STUDIES (REL)

Department Chair: Associate Professor Susan Schwartz

Assistant Professors: Gruen, Lachter, Pettit, Low

Lecturer: Albert

The work of the Religion Studies Department of Muhlenberg College is the academic investigation of religious traditions in their thought and practice. Faculty and students study cultural and intellectual responses to basic questions of life and meaning that engage imagination, hope, and faith. Our discipline, exploring essential aspects of human experience, is inherently cross-cultural, multidisciplinary, and interpretive. Its geography is global; its chronology extends from antiquity to the present. We analyze texts, beliefs, rituals, arts, communities, cultures, and their integration into coherent worldviews. Our methodologies as well as our content interact with disciplines spanning the liberal arts curriculum from the humanities to the social sciences to the sciences. For those primarily interested in Asian Traditions or Jewish Studies, minors are available. (See pages 83 and 172 for more information.)

Honors Program

Students who wish to complete the Honors Thesis in Religion Studies must have a 3.7 grade point average in departmental courses and a 3.25 grade point average overall. The project will normally be undertaken in either semester of the senior year. A written proposal for this project must be approved by a faculty member in Religion Studies in the semester prior to the one in which the thesis will be completed. The proposal must consist of a working thesis, a detailed description of the project, and a tentative bibliography. The culmination of the project will be a presentation for faculty and students at the end of the term. Department faculty will determine whether Honors will be awarded upon completion of the thesis.

PROGRAM REQUIREMENTS

Major Requirements

Students majoring in Religion Studies will be expected to develop broad expertise, reflecting the geographical and typological diversity that characterizes the religions of the world. The advising process will direct students to distribute courses among the department's offerings to include at least three areas of study, distinguished by religious tradition or geography.

Religious Traditions: Judaism, Christianity, Islam, Buddhism

Geographical Areas: India/South Asia, China, Japan

Additional traditions and geographical areas can be included, both as departmental courses incorporate them and by independent study.

A major in Religion Studies consists of nine courses, distributed as follows:

No more than one (1) 100-level course may be counted toward the major.

REL 201: Theory & Method in the Study of Religion

At least two (2) 200-level courses in addition to REL 201

At least two (2) 300-level courses

At least one (1) 400-level course

Religion Studies Majors may count up to two courses and Minors one course from the following list of classes in other departments toward completion of their coursework:

ATH 240 Witchcraft, Magic, & Sorcery

ATH 260 Voudou in Haiti & the Diaspora

ATH 360 Origin & Evolution of Religious Movements

PHL 234 Philosophy of Religion

Minor Requirements

A minor in religion consists of six courses, including:

- At least two (2) 200-level courses
- At least two (2) 300/400-level courses

Course Offerings are distributed among the following categories:

100-199: Themes and Motifs in the Study of Religion

These are 100-level courses that introduce students to the academic study of religion by tracing patterns and themes across religious traditions. Courses are comparative, employing a wide range of media, and applying worldview analysis to contextualize varieties of belief and practice.

202-299: Religions of the World

These are religion-specific courses that provide an in-depth introduction to particular religious traditions or clusters of religions that have occurred in particular geographic locations.

300-349: Religious Expressions (Texts, Rituals/Practices, Fine/Performing Arts)

Religions have historically expressed themselves in a variety of formats, including texts, the arts, and ritual practice. In the history of religions, fine and performing arts as well as rituals and practices carry equal weight with texts. The departmental curriculum provides opportunities for students to explore diverse forms of religious expression. Courses focus on religions traditions or geographical areas.

350-399: Religion, Person, and Society (Gender, Politics, Religious Thought, Historical Moments, Psychology)

This is a series of advanced thematic courses which examine specific theoretical, historical, geographic, political, and philosophical contexts for specific religious beliefs and practices. Courses may focus on religious traditions or geographical areas or may emphasize theoretical approaches that apply across traditions.

450-469: Advanced Seminars in the Study of Religion

These courses provide a capstone experience for our majors and other advanced students. Faculty and students work together to explore a research topic in depth.

COURSES

100. Religion & Popular Culture

This course will examine the ways different religious beliefs and practices are represented in a variety of print, film, television, and other media in our culture, and the ways in which those representations may function to influence opinions, actions, and policy. Analysis of media content will accompany an introduction to the study of religions presented and misrepresented in popular culture.

Meets general academic requirement R.

102. Religion & Violence

Religious ideology and rhetoric play a significant role in violent conflict in the modern period, a phenomenon that we are only now coming to appreciate fully. In this course we will examine some of the central religious issues that have been at the forefront of modern conflicts. We will consider some of the ways that religious terminology, symbolism, and myth have been employed as a way of marking difference and setting identity boundaries from the First World War to the current “War on Terror.”

Meets general academic requirement R.

104. Sex, Gender, & Religion

Gender and sexuality as fundamental aspects of human experience play important roles in all major religious systems, whether explicit and positive or suppressed and denigrated. In this course we will explore how the varied understandings of gender and sexuality in different cultures and at different times have influenced religious practice and belief, and how, in turn, religions have affected these understandings. We will also consider how this interaction between gender and sexuality and religion has affected the status of men and women in their various roles and orientations.

Meets general academic requirement R.

107. Jews & Christians in the 21st Century

Students will study the distinctive relationship between these two religious traditions in recent decades. Topics will be drawn from the current public discourse of Judaism and Christianity. Among the many factors shaping the self-understandings and mutual understandings of the two communities, we will consider particularly the legacy of the Holocaust, increased religious diversity in Europe and North America, the State of Israel, and the postmodern critique of religious claims. Both Jews and Christians ground their religious self-understandings in biblical revelation – however conceived. Both receive that revelation mediated through an interpretive tradition – however explicit. This opens an avenue to introduce the ideas of revelation, hermeneutics, tradition, social location, and identity politics in relation to significant theological and communal factors in both traditions.

Meets general academic requirement R.

108. Mystical Encounters

Throughout history, individuals of many religious and cultural traditions have sought personal, immediate experience of the divine. Such ecstatic communion is recognized as mysticism. Mysticism has generated some of the most remarkable texts in the religious libraries of the world. This course examines mystical traditions across cultures, exploring some of these texts. Symbols of transformation are interpreted as both culturally determined and universal.

Meets general academic requirement R.

111. Religions of Star Trek

This course explores major themes in the study of religion using Star Trek as a primary source, along with more traditional, written texts. Selected excerpts from the original series, the Next Generation series, Deep Space Nine, and Voyager will be viewed and discussed. Star Trek will be presented as a media forum for public debate on changing attitudes towards the role of religion in our culture over the past thirty years. It has presented constructions of meaning and value across cultures, highlighting themes fundamental to our understanding of religions. These themes include the nature of the divine, the role of myth and ritual, evolution in both the spiritual and biological sense, the role of technology in our understanding of religious systems, attitudes toward “other” religions, and the transformative power of religious experience.

Meets general academic requirement R.

201. Theory & Method in the Study of Religion

This course is required of all Religion Studies majors and is a survey of the various methods used in the study of religion and an examination of several theories about the nature of religion.

Prerequisite: Religion Studies major or minor or permission of instructor

203. Religions of India

A survey of the forms and images of religion in the Indian subcontinent, concentrating on Hinduism and Buddhism. The religious spirit, ancient and modern, will be examined through a study of mythological, scriptural, historical, cultural, and artistic phenomena.

Meets general academic requirement D or R.

207. Religions of China

This course will address the origins and development of Confucianism, Taoism, and Buddhism and trace the interactions of these religions as they have shaped the spiritual and ethical environment that exists in China today. The course will also consider material culture, popular forms, and folk traditions and, finally, the unique challenges posed by the modern Chinese political situation.

Meets general academic requirement D or R.

208. Religions of Japan

Students will study the native Japanese religious tradition, Shinto, as well as the Chinese traditions that have become fundamental to Japanese religion (Confucianism, Taoism, and Buddhism) as they have been interpreted in Japan. The course will also consider material culture, popular forms, folk traditions, and the “new religions” of modern Japan as well as attitudes toward religion in today’s Japan.

Meets general academic requirement D or R.

225. Buddhist Traditions

From its origins in India to its development throughout East and Southeast Asia and beyond, Buddhism has prospered in a wide variety of cultures and environments. This course will introduce students to the origins, evolution, and manifestations of Buddhism in scripture, practice, and artistic expression.

Meets general academic requirement D or R.

227. Islamic Traditions

This course will survey the beliefs, practices, and history of Islam, focusing on how Islam has evolved over time and culminating in a close examination of the forms Islam takes today and the place of Islam in current events. Special consideration will be given to what it means to consider Islam as a religion rather than a cultural or political entity. Attention will also be given to Islam’s relationship with other monotheistic traditions and to American Islam.

Meets general academic requirement D or R.

229. Jewish Traditions

The Jewish religion includes a fascinating array of rituals, laws, holidays, and life-cycle events. This course is designed to introduce Judaism as it exists today around the world. Including Ashkenazic and Sephardic Jews, Middle Eastern and African Jewish communities, and diverse Jewish communities in the U.S.

Meets general academic requirement R.

233. Christian Traditions

Christianity is not and never has been a single set of beliefs and practices; instead, the religion is marked by diversity of thought and action. The purpose of this course is to engage the variety in the tradition through the exploration of rituals and beliefs held by different Christian communities around the world and through time. In addition to primary and secondary readings, students will also explore the visual arts, architecture, and music as manifestations of Christian diversity. Additional themes for consideration will include the place of the Bible and its interpretation, the role of church leaders and their relationship to the divine, and ethical/moral differences that are present within the tradition.

Meets general academic requirement R

302. Hebrew Bible (Old Testament)

The Hebrew Bible is the most significant touchstone of western literature and civilization and serves as a foundation for the three major western religious traditions. In order to appreciate many aspects of western culture, from an etching by Rembrandt to a novel by Steinbeck or even an episode of the Simpsons, not to mention the religious life and thought of Judaism, Christianity, and Islam, it is often necessary to be familiar with the text of the Hebrew Bible. This course is designed to provide an opportunity for students to read and

understand some of the most important and fascinating parts of the Hebrew Bible from the narratives of Genesis and Exodus to the histories of the Kings of Israel to the poetry of the Prophets and Writings. In addition to biblical narrative, we will also explore the historical life and setting of the biblical world through archeological evidence, some of which has only very recently been discovered. No previous study of Hebrew Bible expected.

Meets general academic requirement R.

304. New Testament

This course studies the distinctive scriptural foundation of Christianity in its literary, historical, and theological contexts. Topics may include Jesus as an historical figure and as the object of early Christian faith; the relationships of various early Christian communities to one another and to contemporary Judaism, Greek religions, and philosophies; the place and role of Paul; the gospel genre and its several examples; the definition of the canon; and approaches to interpreting the New Testament. No prior study of the New Testament is expected.

Meets general academic requirement R.

306. Jewish Mysticism: Kabbalah

This course will examine the place of mysticism in Jewish religion and literature. We will read a broad range of texts, including the ancient Sefer Yetzirah or Book of Creation, the theosophic imagery of the Zohar, the meditative techniques of Abraham Abulafia, the works of Isaac Luria and his disciples, and the writings of some of the 18th and 19th century Hasidic rabbis. Our goal will be to gain a more nuanced understanding of the nature of mystical phenomena in general, with a special focus on how the Jewish tradition has been reshaped by mystical ideas and practices.

Meets general academic requirement R.

313. Religion & Performing Arts in India

This course focuses on dance, dance-drama, and music as ritual expressions of Indian spirituality. Multi-media sources are actively utilized, as well as readings from the formal Indian tradition (Natya Sastra) and Western interpretive works on Indian music and dance.

Meets general academic requirement D or R.

322. Religion & Literature

This course provides an exploration of the ways in which literary imagination (metaphor, literary style, narrative voice, description, creative manipulation of time and place) interacts with religious imagination (projections of tradition, expression of mystical experience, ritual, symbolic phenomena) to produce works of a transformative nature. Examples from both Eastern and Western literary tradition may be chosen.

Prerequisite: any previous course in religion

Meets general academic requirement R or L.

351. The Feminine in South Asia

This course engages in a close study of the various roles of the feminine in Hindu mythology, religious belief, and practice, including the worship of goddesses and the principle of *Shakti*, the creative, animating force of the universe. Female identity and the lives of women in the cultures of South Asia are closely examined. Readings are chosen from the study of religion, anthropology, and narrative; film and audio media are also provided.

Meets general academic requirement D or R.

353. Gender & Sexuality in Judaism

In this course we will examine how issues relating to gender and sexuality have influenced Jewish experience. We will discuss a wide range of Jewish history and literature, extending from the Bible to contemporary Jewish culture, in order to gain a broad perspective on how gender and sexuality have played a role in Jewish life and thought over time. We will consider how gender and sexuality relate to questions of power and authority, and we will discuss the ways that bodies, both gendered and sexual, become meaningful in different Jewish contexts.

Meets general academic requirement R.

355. Christianity at the Crossroads: The Emergent Church in Late Antiquity

Until the rise of the Roman Emperor Constantine, the history of Christianity was marked by a plurality of belief structures, a constant threat of persecution, and a fluid leadership structure. With the imperial patronage of Constantine, the face of ancient Christianity changed forever, embracing a close relationship between the church and the state, instituting particular formulas of belief, and solidifying the hierarchy of the ecclesiastical structure. Among other important developments in this period is the construction of the first grand Christian worship structures, the composition of the Nicene Creed, and the development of the canon of the New Testament. This class will examine these changes in the context of late antique society and politics and trace the influence of these changes across the span of Christian history.

Meets general academic requirement R

357. The Holocaust: Nazi Germany & the Jews

This course will examine the Holocaust and its historical context by considering both the pre-war position of Jews in Europe and the factors that led to the destruction of European Jewry during WWII. Religious context and responses to these events within affected communities will be studied through a variety of sources, including literature, film, and memoirs.

Meets general academic requirement R.

361. Psychology & Religion

A study of the relationship between psychology and religion and the ways in which major twentieth century psychologists, including Freud and Jung, have approached the phenomena of religion as they relate to culture, society, and the individual. The guiding question of the course asks whether a dynamic relationship exists between psychology and religion or whether they are mutually exclusive. Offered in alternate years.

Meets general academic requirement R.

371. Paths in Jewish Thought

An historical and thematic consideration of leading thinkers and way of thought in the Jewish tradition. Topics to be considered include: the relationship between the Jewish people and Judaism, relations between Judaism and other religions, faith and reason, the problem of evil, and Judaism and politics. Students will be exposed to primary sources including the Bible and Talmud, as well as medieval and modern Jewish thinkers.

Meets general academic requirement R.

375. The Jewish-Christian Relationship

For nearly 2000 years Jews and Christians have had to define their relationship to one another, not only theologically but also in light of wider cultural factors that affected both communities. We study the changing shape of this troubled relationship and its characterization by leading thinkers in both traditions. Possibilities for revision and renewal of the relationship in recent decades are examined in light of prior models and experience as well as the emerging realities of 21st century global society.

Meets general academic requirement R.

450-469. Advanced Seminars

These courses provide a capstone experience for our majors and other advanced students. Faculty and students work together to explore a research topic in depth. Each course will offer both theoretical and methodological content.

Meets general academic requirement W.

470. Honors Thesis in Religion Studies

This project is designed for Religion Studies majors who have consistently proven to be excellent students. It offers them the opportunity to pursue a self-designed major research and analysis thesis, in close consultation with a faculty member.

Prerequisite: Instructor permission required.

960. Religion Studies Internship

RUSSIAN STUDIES

Directors: Professor Albert A. Kipa and Associate Professor Luba Iskold

The Russian Studies major and minor programs provide students with an integrated interdisciplinary knowledge of Russian culture. They prepare students for graduate work leading to careers in international organizations, the foreign service, research, and teaching. The programs are also intended to be of value for students who wish to focus their liberal arts education on Russian studies as part of an awareness of the growing importance of Russia and the Slavic world in current affairs.

The programs permit a student to major in Russian Studies as well as another academic discipline, such as political science, international studies, history, the sciences, business administration, economics, media and communication, or another language. The programs also encourage the study of language and culture in Russia.

PROGRAM REQUIREMENTS

Major Requirements

Students majoring in Russian Studies must successfully complete RUS 204 Intermediate Russian II and any previous Russian language course with a grade point average of at least 2.000 or demonstrate an equivalent command of the language. All majors must maintain a grade point average of at least 2.000 in all courses attempted in the major.

Majors take nine courses beyond the College's language requirement, including:

Language

RUS 203 Intermediate Russian I
RUS 204 Intermediate Russian II
RUS 301 or 302 Russian Conversation & Composition

Literature (two courses are required)

RUS 305 or 306 Readings in Russian Literature
RUS 401 Nineteenth Century Russian Literature in Translation
RUS 402 Twentieth Century Russian Literature in Translation

Culture

RUS 320 or 321 Russian Culture & Civilization

History

HST 263 or 264 Imperial Russia
HST 265 or 266 Soviet Russia

Electives (one or two courses are required depending on Russian language proficiency)

PSC 374 or 375 Government & Politics of Russia

Another literature or history course among those listed above

RUS 970 Russian Independent Study/Research or HST 970 History Independent Study/Research or PSC 970 Political Science Independent Study/Research

Minor Requirements

Students minoring in Russian Studies take six courses beyond the College's language requirement (which must be fulfilled in Russian), including:

Literature (one course is required)

RUS 401 Nineteenth Century Russian Literature in Translation

RUS 402 Twentieth Century Russian Literature in Translation

Culture

RUS 320 or 321 Russian Culture & Civilization

History (one course is required)

HST 263 or 264 Imperial Russia

HST 265 or 266 Soviet Russia

Electives (three courses are required)

RUS 203 Intermediate Russian I

RUS 204 Intermediate Russian II

RUS 301 or 302 Russian Conversation & Composition

RUS 305 or 306 Readings in Russian Literature

PSC 374 or 375 Government & Politics of Russia **OR**

A second Russian literature or history course.

SOCIOLOGY (SOC) & ANTHROPOLOGY (ATH)

Department Chair: Associate Professor Tammy Lewis

Associate Professor: Abruzzi, Kovats-Bernat

Assistant Professors: Chi

Visiting Assistant Professor: VanDerwarker

Despite their often disparate areas of focus, a common aim links sociological and anthropological studies: the advancement of knowledge of who we are, how we came to be that way, and what the future may be. Both disciplines seek to understand how the myriad societies of the world work and how people live, think, and behave, in our own and other societies. For more detailed information about the department, our

courses, special programs, students, and faculty, please visit our website at <http://www.muhlenberg.edu/depts./soc-anth/index.html>

Honors Program

We offer an honors program that includes conducting advanced original research through a close working relationship with a faculty member. Requirements for admission to the honors program include: 1) 3.60 GPA in sociology and anthropology courses and an overall 3.00 at the time of application; 2) the successful completion of at least two 300-level electives in the department; and 3) an application that includes a statement of purpose and a proposal for the research project. The application must be given to the faculty advisor and the department chair by April 15 of the junior year. For more details see the department website.

Career Considerations

We offer a graded sequence of courses that is designed to help students understand and comprehend the central concepts, principles, issues, and methods associated with these two disciplines and to see how sociological and anthropological research is connected to research in other disciplines. Majors from the department have a strong record of successful applications to graduate programs across the country and have found careers in teaching and research at the university level. Due to the department's emphasis on methodological rigor, our graduates are often employed in law, civil service, social services, education, social work, public health and policy, human resource management, marketing research companies, and non-profit research organizations. International organizations such as the United Nations, World Bank, and World Health Organization regularly hire sociologists and anthropologists for research and policy analysis, and they can also be found working in museums and national parks.

SOCIOLOGY (SOC)

Sociology is the study of group behavior and society. The realization that our social world – be it a family, a campus, a city, a nation, an entire world – guides our actions and life choices is an essential lesson of the discipline. To think sociologically is to realize how the general categories into which we fall shape our particular life experiences and influence our thoughts, feelings, and actions. In doing so, sociologists examine the causes and consequences of human behavior; the goal is not to document a particular perspective of society but rather to know how societies work and why. The field of sociology has broad scope. Topics of investigation range from intimate relationships to the consequences of overpopulation; from shared religious beliefs to social movements promoting radical social change; from problems of poverty to corporate downsizing; from questions of group solidarity and shared identities to instances of group conflict and violence. Sociology provides a distinctive perspective

on the world and addresses many challenging issues that are confronting society and the world today.

PROGRAM REQUIREMENTS

Major Requirements

Required Courses:

- SOC 101 Introduction to Sociology
- SOC 205 Sociological Theory
- SOC 311 Research Methodology I
- SOC 312 Research Methodology II
- MTH 104 Statistical Methods

Electives (5 or more of the following courses, of which at least 3 must be at the 300 level or above)

- SOC 105 The Family
- SOC 224 American Ethnic Diversity
- SOC 260 Human Population Growth
- SOC 270-279 Topics in Sociology
- SOC 320 Environmental Sociology
- SOC 325 Imagined Communities: The Sociology of Nations & States
- SOC 335 Inequality & Power
- SOC 340 Sociology of Development
- SOC 350 Social Movements
- SOC 450 Senior Seminar in Sociology & Anthropology

Minor Requirements

Required Courses:

- SOC 101 Introduction to Sociology
- SOC 205 Sociological Theory
- SOC 311 Research Methodology I

Electives (3 or more of the following courses, of which at least 1 must be at the 300 level or above)

- SOC 105 The Family
- SOC 224 American Ethnic Diversity
- SOC 260 Human Population Growth
- SOC 270-279 Topics in Sociology
- SOC 312 Research Methodology II
- SOC 320 Environmental Sociology
- SOC 325 Imagined Communities: The Sociology of Nations & States
- SOC 335 Inequality & Power
- SOC 340 Sociology of Development
- SOC 350 Social Movements
- SOC 450 Senior Seminar in Sociology & Anthropology

SOCIOLOGY COURSES

101. Introduction to Sociology

What is sociology? How do sociologists go about their work? How is society structured? Is inequality an inherent part of human life? How and why do societies change? This course introduces the central concepts and principles of major sociological perspectives. It provides an overview of the study of social institutions, social stratification, and social change.

Meets general academic requirement B.

105. The Family

A study of the family as a social institution, including its development in the United States and other urban industrial societies and the changes it is currently experiencing.

Meets general academic requirement B.

205. Sociological Theory

An investigation of the classical foundations of social thought in sociology. The course will concentrate on the original works of authors such as Marx, Weber, Durkheim, and other important authors from the nineteenth and early twentieth centuries as well as contemporary theorists. Analyses of central theoretical paradigms and questions are explored. Taught every spring semester.

Prerequisite: SOC 101 Introduction to Sociology

Meets general academic requirement W.

224. American Ethnic Diversity

A sociological study of the diverse native and immigrant peoples who comprise the United States. The course will emphasize the social life, experience, and impact of American Indians, Asian Americans, Latin Americans, African Americans, and other peoples who have contributed to the diversity of American society. The course will also examine the role that ethnicity and ethnic relations have played in the history and development of American society.

Prerequisite: SOC 101 Introduction to Sociology

Meets general academic requirement D.

260. Human Population Growth

This course explores the interaction between population growth, economic development, and environmental resources from anthropological, sociological, and demographic perspectives. The course examines different theories of population growth; the ecological and social factors which influence population growth; the relation between population growth and economic development; the environmental implications of population growth; and the impact that colonialism, industrialization, and globalization have had on contemporary local, national, and international populations. Taught every other year.

Prerequisite: ATH 112 Cultural Anthropology or SOC 101 Introduction to Sociology

Meets general academic requirement B.

270-279. Topics in Sociology

Selected courses with a specialized focus that are not contained within the regular sociology curriculum. Such topics might include Medical Sociology, Sex & Gender, or Urban Sociology.

Prerequisite: SOC 101 Introduction to Sociology

311. Research Methodology I (Cross-listed with ATH 311)

This course provides experience in the design and implementation of sociological research. It covers qualitative techniques for collecting, analyzing, and reporting data. We examine the epistemological issues that underlie social research, the ethical questions involved in research, and the assumptions on which various research strategies are based. We evaluate the strengths and weaknesses of the most commonly used methods. Students will design an original research project. Taught every fall semester.

Prerequisite: SOC 205 Sociological Theory or ATH 205 Anthropological Theory

Meets general academic requirement W.

312. Research Methodology II (Cross-listed with ATH 312)

A continuation of Research Methodology I. This course focuses on quantitative methods. Students will learn how to use statistics to address research questions in sociology and anthropology. Students will use popular statistical packages such as SPSS to analyze data. Taught every spring semester.

Prerequisite: SOC 311 or ATH 311 Research Methodology I and MTH 104 Statistical Methods

Meets general academic requirement W.

320. Environmental Sociology

This course analyzes the social causes and consequences of environmental change. We explore the relationships among production, consumption, population, technology, and environment. The major theoretical paradigms in environmental sociology are used to analyze environmental issues. Some of the questions we address include: Is “green” capitalism possible? Does population growth lead to environmental degradation? Can technical fixes solve environmental problems? Has the environmental movement been successful? Offered every other year.

Prerequisite: SOC 101 Introduction to Sociology or ATH 112 Cultural Anthropology

Meets general academic requirement B.

325. Imagined Communities: The Sociology of Nations & States

A sociological study of nationalism and state formation in post-colonial societies. Readings will be drawn from classic works in political sociology focusing on theories of power and theories of the state. Using selected case studies from “non-Western” parts of the world with an emphasis on Asia, the course examines the emergence and persistence of nationalism and studies the implications of globalization upon the processes of politicizing identities—ethnicity, nation, class, and gender—as they react to new forms and arrangements of power. Possible topics may include interrelationships between identity construction and politics; causes and consequences of ethnic conflict and accommodation; political economic development in post-colonial contexts; and questions of citizenship and nationality amidst global migrations and socio-cultural changes. Offered every other year.

Prerequisite: SOC 101 Introduction to Sociology

Meets general academic requirement D.

335. Inequality & Power

A sociological examination of the various factors underlying differences in wealth, power, and prestige in contemporary urban industrial societies, with emphasis on the dynamics of class, ethnic, racial, and gender stratification. Taught every other year.

Prerequisite: SOC 101 Introduction to Sociology

340. Sociology of Development

This course analyzes development from a sociological perspective. It examines different theoretical models for understanding macro-level social change. Possible topics for exploration include the environment, economic development, revolution, urbanization, population, and poverty. Taught every other year.

Prerequisite: SOC 101 Introduction to Sociology or ATH 112 Cultural Anthropology

Meets general academic requirement B.

350. Social Movements

A sociological investigation of the causes and consequences of social movements. The course will examine both historical and contemporary social movements in the United States and elsewhere to understand the underlying social, economic, political, and demographic factors that cause their emergence and that influence their evolution. Movements as diverse as the Civil Rights movement and the White Supremacy movement will be examined. Taught every other year.

Prerequisite: SOC 101 Introduction to Sociology or ATH 112 Cultural Anthropology

Meets general academic requirement B.

382. Gender & Health Sciences

This class is a sociological examination of the role of the health sciences in the social construct and control of gender. We will explore a wide range of health disciplines (e.g., genetics, public health) and health issues, including those that are traditionally seen as “gendered” (e.g., birth and erectile dysfunction) and

seemingly “non-gendered” illness such as heart disease and mental illness. Contemporary notions of health will be contextualized through historical and international comparisons. Special attention will be given to how health-related gender constructs are complicated by race, class, sexuality, age, and ability and to social change efforts aimed at challenging gendered representations of gender health inequality.

Prerequisite: SOC 101 Introduction to Sociology

450. Senior Seminar in Sociology & Anthropology (Cross-listed with ATH 450)

A research practicum in which students develop and carry out independent research projects. Open only to sociology and anthropology majors and minors. Taught every year.

Prerequisite: Permission of instructor

Meets general academic requirement W.

ANTHROPOLOGY (ATH)

Anthropology is the study of the origins, evolution, and contemporary diversity of human beings as both biological and cultural organisms from our emergence millions of years ago to our flourishing in the present. With a perspective that is among the most holistic of all academic disciplines, anthropology is divided into subfields that allow for a comprehensive and comparative assessment of the human species. Cultural anthropology engages the broad field of human cultural data (provided by language, ritual, kinship, religion, symbolism, politics, economics, and other areas of social life) in order to study variations in the beliefs and behaviors of members of different groups at the band, village, city, and state level. Physical anthropology includes the study of the genesis and development of our ancestral and living lineage by examining the biological, primatological, and hominid fossil data. Archaeology involves the reconstruction of the human past through the analysis of architectural, artifactual, and human remains. The breadth of the subject matter means that an anthropologist may study Mayan hieroglyphics, the fossil remains of extinct human ancestors, the everyday lives of street children in Latin America, the fertility rituals of New Guinea Highlanders, the rise of civilization in the Middle East, spirit possession and animal sacrifice in Vodou, chimpanzee communication systems, and more. For the anthropologist, diversity itself – in all of its manifestations of body shapes and sizes, customs, technologies, and worldviews – provides a frame of reference for understanding any single aspect of human life in any given society.

PROGRAM REQUIREMENTS

Major Requirements

Required Courses:

- ATH 111 Human Evolution
- ATH 112 Cultural Anthropology
- ATH 115 Archaeology
- ATH 311 Research Methodology I
- ATH 312 Research Methodology II
- ATH 360 Anthropological Theory

MTH 104 Statistical Methods

Electives (4 or more of the following courses, of which at least 2 must be at the 300 level or above)

- ATH 224 Peoples of Africa
- ATH 227 The American Southwest
- ATH 230 Native American Ecology
- ATH 235 Anthropology of the Caribbean
- ATH 240 Witchcraft, Magic, & Sorcery
- ATH 250 Anthropology of Sex & Gender
- ATH 255 World Prehistory
- ATH 260 Vodou in Haiti & the Diaspora
- ATH 270-279 Topics in Anthropology
- ATH 310 Human Ecology
- ATH 317 Field Archaeology
- ATH 320 Anthropology of the Child
- ATH 325 Primate Behavior
- ATH 360 The Origin & Evolution of Religious Movements
- ATH 370 The Ethnography of Violence
- ATH 450 Senior Seminar in Sociology & Anthropology

Minor Requirements

Required Courses:

- ATH 111 Human Evolution
- ATH 112 Cultural Anthropology
- ATH 115 Archaeology
- ATH 360 Anthropological Theory

Electives (2 or more of the following courses, of which at least 1 must be at the 300 level or above)

- ATH 224 Peoples of Africa
- ATH 227 The American Southwest
- ATH 230 Native American Ecology
- ATH 235 Anthropology of the Caribbean
- ATH 240 Witchcraft, Magic, & Sorcery
- ATH 250 Anthropology of Sex & Gender
- ATH 255 World Prehistory
- ATH 260 Vodou in Haiti & the Diaspora
- ATH 270-279 Topics in Anthropology
- ATH 310 Human Ecology
- ATH 311 Research Methodology I
- ATH 312 Research Methodology II
- ATH 317 Field Archaeology
- ATH 320 Anthropology of the Child
- ATH 325 Primate Behavior
- ATH 360 The Origin & Evolution of Religious Movements

ATH 370 The Ethnography of Violence
ATH 450 Senior Seminar in Sociology & Anthropology

ANTHROPOLOGY COURSES

111. Human Evolution

This course introduces students to the scientific concepts, principles, methods, and research pertaining to human biological evolution. The course begins with a discussion of evolutionary theory and then applies evolutionary theory to examine: (1) contemporary human biological diversity, (2) the biological and behavioral similarities and differences among humans and nonhuman primates, and (3) the fossil evidence for human evolution.

Meets general academic requirement S.

112. Cultural Anthropology

This course introduces students to the concepts, principles, and methods used by cultural anthropologists to understand and explain the diversity of human societies throughout the world. It combines a cross-cultural analysis of different social institutions with the systematic examination of the behavior of individual societies in order to promote a rational understanding of human social and cultural diversity.

Meets general academic requirement D.

115. Archaeology

An introduction to the methodology and theoretical concepts used in the scientific acquisition and transformation of archaeological data into interpretations and explanations of cultural behavior, adaptations, and culture change.

Meets general academic requirement B.

205. Anthropological Theory

This course examines the development of anthropological theory from the 19th century to the present. It critically evaluates major figures in the field and the principal schools of thought, including Evolutionism, Dialectical and Historical Materialism, Historical Particularism, Functionalism, Structuralism, and modern Materialist theories. The central theme of the course is to evaluate the scientific validity and utility of the different anthropological research strategies. The course also explores contemporary anthropological approaches which question the application of traditional scientific research methods in anthropological research. Taught every spring semester.

Prerequisite: ATH 112 Cultural Anthropology

Meets general academic requirement W.

224. Peoples of Africa

An overview of the social and cultural diversity of Africa. The course examines how both the geographic diversity of the African continent and the demographic characteristics of its people underlay the continent's extensive cultural diversity. The course also explores the impact that contemporary social, economic, and political developments have had on indigenous African societies.

Meets general academic requirement D and W.

227. The American Southwest

An introduction to the complex and dynamic relationship that has existed between people and the environment in the American Southwest. The course examines prehistoric, historic, and contemporary developments in the American Southwest in order to illustrate the region's rich ecological and cultural diversity and to show the effect that human occupation and resource exploitation have had on regional social and ecological relations.

Meets general academic requirement W.

230. Native American Ecology

Much has been written claiming a unique relationship between American Indians and the environment. This course critically examines this literature by systematically exploring the ecology of Native American

peoples and by emphasizing the role that human-environmental relations played in the evolution of native societies prior to European contact. The course also examines the impact that ecological factors played in determining the history of both Indian-Indian and Indian-White relations.

Prerequisite: ATH 112 Cultural Anthropology or SOC 101 Introduction to Sociology
Meets general academic requirement D.

235. Anthropology of the Caribbean

An anthropological inquiry into the sociocultural life of creole populations in the Caribbean Basin. This course will explore the lifeways of the pre-Columbian Arawak Indians, the emergence of plantation agriculture, the cultural legacies of European and American colonial contact, and the social dynamics of Caribbean nationhood. Attention will be paid to creole languages, religions, economic infrastructures, political institutions, and other social relations. Topics to be addressed include colonialism, creolization, liberation theology, Rastafari, U.S.-Caribbean relations, modernization and development, international trade relations, revolution, and democratization.

Meets general academic requirement D.

240. Witchcraft, Magic, & Sorcery

This course will examine beliefs and practices of witchcraft, magic, and sorcery in both Euro-American and non-Western societies. Emphasis will be placed on comparative analysis of the dynamics and functions of magical practice in cross-cultural context. Special attention will be paid to answering the following questions: What sorts of cultural information are transmitted through acts of conjuring and witchcraft? What are the social functions of magical ritual? Why do cultures embrace notions of malevolent supernatural power? How is sorcery used to control social behavior? Topics to be addressed throughout the course include the functions of ritual, shamanism, magic, sorcery, vampirism, divination, possession, sacrifice, and the use of oracles. Taught every other year.

Prerequisite: ATH 112 Cultural Anthropology or permission of instructor
Meets general academic requirement R.

250. Anthropology of Sex & Gender

A scientific examination of cross-cultural differences in the definition of sex and gender and of the behavior associated with specific gender categories. Topics covered include the distinction between sex and gender; "Third Genders"; household economy and organization; monogamy, polygyny, and polyandry; infanticide; violence and aggression; gender stratification; circumcision and subincision; and the evolution of gender roles in human society.

Prerequisite: ATH 112 Cultural Anthropology or SOC 101 Introduction to Sociology
Meets general academic requirement W.

255. World Prehistory

An introduction to human prehistory. This course focuses on the origin of human culture, the beginnings of agriculture, and the rise of civilization in both the old and new worlds. Taught every other year.

260. Vodou in Haiti & the Diaspora

This course employs an anthropological approach in examining the symbols and rituals of Haitian Vodou as well as their relationship to larger economic, political, and cultural issues of peasant life. Students will draw on ethnographic sources in order to gain an understanding of the construction of the Vodou cosmology and humanity's unique place within it amid the spirits and specters of the invisible world. Attention will be paid in particular to rites of zombification and other acts of sorcery and their instrumental role in effecting social control in the Haitian countryside. The course will also address the diffusion of Vodou cults into the Haitian diaspora communities of North America.

Prerequisite: ATH 112 Cultural Anthropology or permission of instructor
Meets general academic requirement D or R.

270-279. Topics in Anthropology

Selected courses with a specialized focus on topics that are not contained within the regular anthropology curriculum. Topics covered might include Economic Anthropology, Political Anthropology, Kinship, Archaeology of Food, etc.

Prerequisite: ATH 112 Cultural Anthropology

310. Human Ecology

Ecology is the scientific study of the relations between living organisms and their environment. Human ecology comprises the explicit application of ecological concepts, principles, and scientific methodology to explain the adaptation and evolution of human populations and communities. Topics covered include energy flow, nutrient cycling, population ecology, community evolution, resource competition, and disease ecology. The course also examines how the principles of human ecology enhance our understanding of contemporary environmental issues. Students will complete a scientific research project. Taught every other year.

Prerequisite: ATH 112 Cultural Anthropology or ESC 113 Environmental Science

Meets general academic requirement S.

311. Research Methodology I (Cross-listed with SOC 311)

This course provides experience in the design and implementation of sociological research. It covers qualitative techniques for collecting, analyzing, and reporting data. We examine the epistemological issues that underlie social research, the ethical questions involved in research, and the assumptions on which various research strategies are based. We evaluate the strengths and weaknesses of the most commonly used methods. Students will design an original research project. Taught every fall semester.

Prerequisite: SOC 205 Sociological Theory or ATH 205 Anthropological Theory

Meets general academic requirement W.

312. Research Methodology II (Cross-listed with SOC 312)

A continuation of Research Methodology I. This course focuses on quantitative methods. Students will learn how to use statistics to address research questions in sociology and anthropology. Students will use popular statistical packages such as SPSS to analyze data. Taught every spring semester.

Prerequisite: ATH 311 or SOC 311 Research Methodology and MTH 104 Statistical Methods

Meets general academic requirement W.

317. Field Archaeology

A four-week intensive analysis of a particular archaeological site. Utilizing the methodological and theoretical concepts of anthropological archaeology, students will be required to participate in every phase of the scientific research process. Typically offered during the summer sessions only.

Prerequisite: ATH 115 Archaeology

320. Anthropology of the Child

This course will explore the significance of children in diverse social, political, and economic contexts. It will situate childhood as a dynamic site of cultural construction and interpretation while considering the broad cross-cultural definitions and uses of children in local and global discourse. Topics may include historical constructions of childhood, cross-cultural definitions of childhood, the relationship of child to kin group, surrogacy, in-vitro fertilization, infanticide, issues in pediatric care, children's rights, domestic child abuse, child soldiers, street youth, and adolescent involvement in politics and violence.

Prerequisite: ATH 112 Cultural Anthropology

Meets general academic requirement B

325. Primate Behavior

An examination of the natural history of non-human primates from an evolutionary, ecological, and social perspective. Includes a survey of the primate order and an assessment of the behavioral characteristics of each major group relative to modern evolutionary theory. Emphasis is placed on the similarities and differences which exist among non-human primates and their implications for understanding the evolution of human behavior.

Prerequisite: ATH 111 Human Evolution

360. The Origin & Evolution of Religious Movements

This course explores the role that the political economy plays in the origin and evolution of religious movements. Several specific religious movements are examined in order to illustrate both the pervasiveness of this type of social movement and the commonality underlying such movements. Movements examined include the Ghost Dance among the Plains Indians; Cargo Cults among South Pacific islanders; the

Kimbangist and Mau Mau movements in Africa; selected Islamic Movements in Africa and the Middle East; Mormonism in the United States; the Jesus Movement in Roman Palestine, and the contemporary rise of religious fundamentalism. Taught every other year.

Prerequisite: ATH 112 Cultural Anthropology

Meets general academic requirement W.

370. The Ethnography of Violence

A cross-cultural analysis of the definitions, causes, and resolutions to social violence and conflict and the anthropological theories and methods used to study them. The goal of this course is to impart analytical thinking with regard to situations of collective violence in diverse cultural milieus through an intensive study of contemporary ethnographic fields of conflict. Emphasis will be placed on the critical dissection of the cultural, economic and political strategies, and social factors influencing actors in their negotiations of dispute and strife. Topics to be examined include warfare, terrorism, political violence, riot, insurrection, torture, and mechanisms of social control.

Prerequisite: ATH 205 Anthropological Theory or permission of instructor

Meets general academic requirement W.

383. Archaeology of Food

This course uses food as a central axis for considering issues of health/nutrition, subsistence economy, gender roles/relations, ritual/ceremonial life, social inequality, and political power in past societies. These issues will be addressed through an examination of the archaeological residues of food remains and food consumption. Thus, the course has a dual emphasis on anthropological issues and archaeological methods of "food analysis". Understanding past food practices requires consideration of a variety of archaeological evidence, including the food remains themselves, food containers and serving wares, areas of food preparation and consumption, and the human skeleton as a record of consumption. After several weeks considering the methods for analyzing these types of evidence, the course considers the above issues more in depth through case studies dealing with topics like cannibalism, feasting, luxury foods, status, gender, and ethnicity.

Prerequisite: ATH 115 Archaeology

450. Senior Seminar in Sociology & Anthropology (Cross-listed with SOC 450)

A research practicum in which students develop independent research projects. Students will design and carry out an original research project. Open only to sociology and anthropology majors and minors.

Prerequisite: Permission of instructor

Meets general academic requirement W.

THEATRE (THR), SPEECH (SPC)

Department Chair: Associate Professor James Peck

Professors: Cartelli, Dretsch, Richter

Associate Professors: Averill, Coppa, Roussel, Schachter

Assistant Professor: Dwyer

Visiting Assistant Professors: Cate, Pasternack

Lecturers: Carlis, Case, Chin, Theisen

The theatre program at Muhlenberg engages students in the artistic and intellectual processes that enable them to make and analyze theatre and performance. The required creative work of the major program includes acting, directing, design, and critical writing, supplemented by offerings in stage management and playwriting. Students emerge with extensive knowledge of the literature and performance traditions of the theatre. Grounded in the liberal arts tradition, the department is committed to

the study of theatre as a way of knowing the world. The major serves as an excellent preparation for advanced study (M.A., M.F.A., Ph.D. degrees) and careers in the theatre arts.

In keeping with the department's dedication to live performance, theatre at Muhlenberg joins with the dance program to form the Department of Theatre and Dance. The faculty, staff, and students in both areas work closely together in the department's performance program. Please refer to the Dance section of this catalog for a more detailed explanation of the Dance program. Students with a serious interest in musical theatre performance can study acting and dance in the Department of Theatre and Dance and receive vocal training in the Department of Music. At least one major musical production is presented each year as part of the performance program.

An important feature of theatre education at Muhlenberg is the award-winning performance program. The production season is grounded in the belief that as an academic discipline, theatre must be simultaneously intellectual and experiential. Presented under the auspices of the Muhlenberg Theatre Association, each year six major theatre productions and several studio performances occur in the state-of-the-art Trexler Pavilion for Theatre and Dance and the Dorothy and Dexter Baker Center for the Arts. In addition, the department sponsors touring educational pieces offered to local schools and community groups. All students, regardless of major, are eligible to participate in the performance program and work on production crews.

Ongoing visiting artist and educational exchange programs expose students to the work of theatre practitioners from outside the college. The Baker Artist-in-Residence Program brings distinguished professional guest artists to Muhlenberg each year to teach and participate in the performance program. In addition to the Baker artists, the department employs three or more other guest professional artists each year in the performance program and as adjunct instructors. Each summer, students may audition for the Muhlenberg Summer Music Theatre Festival Company, a high-quality professional stock operation that presents three full productions in College facilities. Theatre majors are encouraged to spend a semester in England studying at Goldsmith's College of the University of London or at the Accademia Dell'arte in Arezzo, Italy.

MAJOR PROGRAMS

All students will take 12 courses, 9 in the theatre department and 3 in cognate disciplines. Students in the theatre major must opt for one of five concentrations: Acting, Directing, Design and Technical Theatre, Stage Management, and Performance Studies. Students majoring in theatre may double major or minor in dance. Students with a strong interest in musical theatre are encouraged to double major or minor in music or major in theatre and minor in music and dance.

Core Courses (3 courses):

All theatre students must enroll in the following two courses:

THR 100 Theatre & Society: An Historical Introduction
THR 165 Stagecraft: Aesthetics & Lighting (.5 units)

In addition, all majors will take either:

THR166 Stagecraft: Scenic Techniques (.5 units) **OR**
THR 167 Stagecraft: Costume Techniques (.5 units)

Theatre Scholarship (5 courses):

These courses give students a substantive encounter with important movements and traditions in theatre and introduce influential methods of analyzing theatre. All majors take five courses selected from three categories: Dramatic Literature, Theatrical and Aesthetic Theory, and Theatre History. Dramatic Literature courses emphasize the study of playtexts. Courses in Theatrical and Aesthetic Theory study theories of the nature and function of theatre and art. Courses in Theatre History analyze embodied performances in historical context.

Three of these courses must be *Cognates*, taken outside the theatre department;
One course must address primarily pre-modern* material.

Dramatic Literature (at least one course):

Cognates

CLS 310 or 311 Classical Drama*
ENG 319 Shakespeare I*
ENG 321 Shakespeare II*
ENG 354 Modern Drama
ENG 369 Postwar Drama
GRM 480 Readings in German Drama
SPN 412 Spanish Theatre in the Golden Age

Theatrical & Aesthetic Theory (at least one course):

THR 211 or 212 Performance Studies
THR 301 or 302 Feminist Theories
THR 312 or 313 Materialist Theories

Cognates

PHL 236 Philosophy & the Arts
REL 313 Religion & Performing Arts in India

Theatre History (at least one course):

THR 230 or 231 Post-Independence African Theatre
THR 232 or 233 Nineteenth-Century American Theatre
THR 330 or 331 Historiography of Theatre History
THR 333 Renaissance Plays in Process

Cognates

ENG 327 The Eighteenth Century
ENG 377 Contemporary Drama & Performance Art
MUS 227 Opera

Area of Concentration (5 courses):

Students select one concentration. These courses allow students to pursue their artistic scholarly interests at an advanced level.

Acting Concentration:

- THR 250 Acting I: Process
- THR 251 Acting II: Scene Study

Two acting courses at the 300 level. *One of these must be THR 350 or THR 351 for verse work.*

- THR 350 Acting Classical Verse
- THR 351 Commedia dell 'Arte
- THR 352 Experiments in Acting
- LTS 302 Performance (at Goldsmith's College, University of London, p. 63)

One directing course selected from:

- THR 370 Fundamentals of Directing
- THR 371 Directing: Process in Production
- THR 372 Major Directors: Theory & Practice

Directing Concentration:

- THR 161 Design for the Theatre
- THR 250 Acting I: Process
- THR 251 Acting II: Scene Study

Two courses in directing selected from:

- THR 370 Fundamentals of Directing
- THR 371 Directing: Process in Production
- THR 372 Major Directors: Theory & Practice

Design Concentration:

- THR 161 Design for the Theatre

One acting course:

- THR 150 Introduction to the Art of Acting **OR**
- THR 250 Acting I: Process

Two intermediate design courses selected from:

- THR 260 Scene Design I
- THR 261 Stage Lighting I
- THR 262 Costume Design I

One advanced design course selected from:

- THR 360 Scene Design II
- THR 361 Stage Lighting II
- THR 362 Costume Design II

Stage Management Concentration:

The Stage Management Concentration requires 6 courses but remains only 5 credit units. Due to the practicum requirements for this concentration, the students take two 0.5 credit stage management classes.

One acting course:

THR 150 Introduction to the Art of Acting **OR**

THR 250 Acting I: Process

Four stage management courses

THR 161 Design for the Theatre

THR 163 Introduction to Sound Design

THR 261 Lighting Design I

THR 164 Stage Management (0.5)

THR 970 Independent Study (0.5)

Performance Studies Concentration:

One acting course:

THR 150 Introduction to the Art of Acting **OR**

THR 250 Acting I: Process

One directing course selected from:

THR 370 Fundamentals of Directing

THR 371 Directing: Process in Production

THR 372 Major Directors: Theory & Practice

Three more courses in Theatrical & Aesthetic Theory or Theatre History to be chosen from those listed in the basic categories above **OR** from additional cognates listed below specifically (and only) for Performance Studies Concentrators:

ATH 240 Witchcraft, Magic, & Sorcery

ATH 260 Vodou in Haiti & the Diaspora

DNC 101 or 102 Dance & Society

DNC 150 African Dance & Culture

DNC 201 Dance History

MUS 225 World Music

Performance Studies Concentrators must take THR 211 or 212 Performance Studies to fulfill their basic requirement Theatrical and Aesthetic Theory.

THEATRE COURSES (THR)

PERFORMANCE THEORY, HISTORY, AND LITERATURE COURSES

100. Theatre & Society: An Historical Introduction

Students in this course study the historical development of world theatre with an emphasis on the western dramatic tradition as a way of understanding how the theatrical experience reflects the society in which it exists. A broad range of theatrical literature and theoretical material will be explored. The members of the class will attend several live theatrical performances and are required to complete production laboratory hours. Open to all Muhlenberg students, this is the foundation course for the theatre major. Students planning to major in theatre should complete this course in their first year.

Meets general academic requirement A.

190. Foundations of the Creative Arts

Students will investigate the basic aesthetic concepts in visual arts, music, dance, and drama. They will examine the arts as a way of perceiving the world, reflecting and challenging cultural norms, and expressing new ideas. By exploring and experiencing the fundamental skills used in the creative process, students will discover their own connection to the arts as a means of personal expression. Through a primarily studio experience, students will have the opportunity to engage a variety of art forms as part of the process of

learning an aesthetic language. This objective will be achieved most effectively as students actively work in and through multiple artistic perspectives. **Open to teacher certification candidates only.**

Meets general academic requirement A.

211, 212. Performance Studies

This course introduces the burgeoning interdisciplinary field of performance studies. Performance studies investigates the human body engaged in symbolic action using methods drawn from such disciplines as the performing arts, cultural anthropology, ritual studies, and popular culture studies. Thus, it analyzes aestheticized forms like theatre, performance art, dance, and music but also inquires into cultural performances like political protests, fashion shows, sporting events, and worship services. Students will learn the basic history of the field and develop a working knowledge of its scholarly methods and proclivities.

Meets general academic requirement W when offered as 212.

230, 231. Topics in Theatre History: Post-Independence African Theatre

This course examines theatre in Africa beginning from the anticolonial independence movements of the 1950s and continuing to the present. It does not purport to offer a comprehensive view of Africa's diverse theatrical traditions but examines several regions, heritages, and time periods attentive to both commonalities and differences. Particular attention will be given to theatre's function as an agent of social and political change. Theoretical concerns are likely to include theatre and nationalism, negritude and its critics, the relationship between theatre and ritual, the role of women, and the interaction of indigenous African performance practices with western theatre.

Meets general academic requirement H or D (and W which applies to 231 only).

232, 233. Topics in Theatre: Nineteenth Century American Theatre

The American theatrical scene of the nineteenth century gave birth to myriad popular forms: minstrelsy, melodrama, burlesque, and vaudeville. In addition, several important art-theatre forms grew up alongside, and in reaction to, these mainstream entertainments. This course engages students with the historical evidence and recent scholarship on American theatre in the 1800s. The class will examine the development of multiple systems of theatre in the United States during this time period. Reading texts addressing the entire range of theatrical material (performance, marketing, architecture, stage illusions, and scripts), students will trace the rise of nationalism on the stage and in the audiences of the popular theatres.

Meets general academic requirement H (and W which applies to 233 only).

301, 302. Theories of the Theatre: Feminist Theories

This course introduces students to the intellectual viewpoints, critiques, and new questions (and the new objects of study to match the new questions) that have arisen in the late twentieth and early twenty-first centuries feminist theories of the theatre. In order to move through the theoretical models employed by feminist critics in the theatre, we will begin with those key essays in film theory, semiotics, and materialist analysis that contributed to the current body of theoretical feminist material. Reading theories of reception and representation, of race and whiteness, and of unmaking mimesis, students will become familiar with analyses articulated by contemporary scholars. As objects of study upon which to practice these theoretical approaches, the class will read contemporary plays of feminist writers. In addition, as part of our re-reading of canonical works, students will look at texts such as Aristophanes' *Thesmophoriazusage (Ladies Day)*. Reading theoretical essays as well as scripts, we will explore the complex embodiments of gender as performance. Ultimately, we will apply the materialist theories which integrate psychoanalytic approaches with Foucaultian analysis to reveal, through their re-framing, complex processes of making and experiencing theatrical representation. These critical languages will give us the tools to understand the implications of how plays construct our ideas about gender, race, sexuality, class, and national identity.

Prerequisite: THR 100 Theatre & Society: An Historical Introduction or permission of instructor

Meets general academic requirement W when offered as 302.

312, 313. Theories of the Theatre: Materialist Theories

This course investigates materialist approaches to the analysis of theatre. Students will learn to conceptualize the theatre as an arena of cultural production and social struggle. The course will encompass classical texts of the materialist tradition by such authors as Karl Marx, Antonio Gramsci, and Walter Benjamin, as well as

contemporary applications and revisions of those ideas. Recent thinkers might include Raymond Williams, Augusto Boal, Jill Dolan, Ric Knowles, Femi Osofisan, and David Savran.

Prerequisite: THR 100 Theatre & Society: An Historical Introduction or permission of instructor
Meets general academic requirement W when offered as 313.

333. Renaissance Plays in Process

This course will involve students in intensive semester-long research projects focused on the social, political, literary, and cultural conditions that informed the composition, structure, and production of one or two plays of the Elizabethan and Jacobean periods. As such, it will require students to perform hands-on research on subjects ranging from the status of women in Elizabethan England; established and evolving views on marriage; legal statutes and judicial practices; crime and punishment; the licensing and censorship of plays; attitudes toward homosexual practices; social mobility; the legal and social standing of citizens, apprentices, foreigners, and masterless men; etc. The plays we will focus on will be topically or historically oriented, either drawn from the annals of English history, e.g. Marlowe's *Edward II*, from the news of the day, or from pronounced social anxieties of the time, such as the fear of witches. The course will require students to develop a broad range of interpretive skills and encourage them to bring their enriched understanding of the plays into the present in the form of research papers, study guides, production histories, black-box performances, set-designs, and video projects.

Prerequisite: THR 100 Theatre & Society: An Historical Introduction or ENG 275 or permission of instructor.

400, 401. Advanced Topics in Theatre & Performance Studies

This course examines a specialized topic in the field of theatre or performance studies. Possible subjects include popular entertainments, queer performance, or street theatre.

Prerequisite: A THR 100 level and one additional theatre course or permission of the instructor.
Meets general academic requirement W when offered as 401.

THEATRE STUDIO PERFORMANCE COURSES

ACTING

150. Introduction to the Art of Acting

A survey of acting theories and practice culminating in the rehearsal and performance of scenework. The course is designed for non-majors and those who plan to major in theatre but have limited previous acting training. The first part of the semester will examine a variety of approaches to the art of acting, including those of Stanislavski, Artaud, Brecht, the Elizabethans and one or more non-European traditions. Students will be asked to consider the basic assumptions about the nature and function of theatre implied by each approach. The balance of the work will consist of exercises to explore the intentional and communicative nature of concentration, introductory Meisner technique, improvisation, and the acquisition of a basic acting vocabulary. To gain a practical understanding of the preparatory work, each student, with one or more partners, will rehearse and perform a scene from the modern American theatre. Meets four hours per week.
Meets general academic requirement A.

151. Voice & Speech for the Actor

Employing techniques devised by Linklater, Lessac, and Skinner, this course aims to refine (1) released, unrestricted, supported vocalization for the stage and (2) clear, articulate speech for the stage. Both the International Phonetic Alphabet (IPA) and the phonetic annotative scheme of Arthur Lessac are introduced as the phonemes that make up spoken Standard American English and are catalogued and practiced. Students address the phonetic bases of their own regional dialects with an ear toward acquiring vocal habits to support acting choices in a wide range of roles.

250. Acting I: Process

The beginning class in the acting sequence, this class lays the foundations for the ultimate goal of the acting program: to create actors who know how to work on a role within the context of the play and who have flexibility in their craft. The focus of the class will be on acting process, including relaxation work; how to

critique; commitment to language, sound, emotional connection, and movement; the active choice; and actor's text analysis. Actors will be judged on their individual growth and also on their ability to work as an ensemble member within the class. This course is the building block leading into scene work and a requirement of the class will be a fully staged scene. Possible readings from Stanislavsky, Peter Brook, Chekhov, Williams, Shephard, and other writers. Films may be shown as an example of craft. Class meets for six hours a week.

Prerequisite: THR 100 Theatre & Society: An Historical Introduction

251. Acting II: Scene Study

Building on the foundations taught in Acting I, this class moves the student actor into scene work. Primary focus in the class is on American realistic text with the possibility of moving into increasingly difficult texts from the modern canon. Class will explore the tools of the actor, including text analysis, critique, commitment to action, linking choices to the larger structure of the play, theatricality, language, impulse work, and style. Actors will be judged on their individual growth and also on their ability to work as an ensemble member within the class. Playwrights may include Hellman, Kushner, O'Neill, Churchill, Fomes, among other writers. Films may be shown as an example of technique. Class will meet for four hours a week.

Prerequisite: THR 250 Acting I: Process

350. Acting Classical Verse

This advanced acting class investigates methods for approaching, rehearsing, and performing pre-modern lyric texts, such as those by William Shakespeare and his contemporaries. With a focus on the practical demands of heightened language, the course addresses technical, stylistic, historical, and interpretive considerations as they relate to the feat of performance. Special attention is paid to linguistic structure as well as to its relationship to the individual experience of the actor/character. A directed emphasis on voice and speech development complements study by providing physical conditioning aimed at enhancing the student's production of poetic language. Topics of study also include verse structure, metrical variation, rhythm, language-as-action, forward movement, prose, phonetic word fabric, and imagery. The course acknowledges the modern actor's psychological approach to text (regardless of period) while at the same time recognizing that classical plays require actors to make distinct shifts in both acting-style and psychology. Graded performance projects involve advanced scene work from Shakespeare's oeuvre. Class will meet for four hours per week.

Prerequisite: THR 251 Acting II: Scene Study

351. Commedia dell'Arte

This is an advanced acting class that explores comic performance from the classical French, Italian, and Spanish traditions. Scenes from the plays of Goldoni, Gozzi, Moliere, Marivaux, Beaumarchais, and Cervantes will be analyzed and performed. In addition, the study of the stock Commedia dell'Arte characters (Arlecchino, Pantalone, Brighella, Dottore, Capitano, etc.) will allow the actor to improvise with masks in order to expand vocal and physical abilities. Students in the class are required to write and perform contemporary scenes in the style of the Commedia, and elements of comedy will be researched through the viewing of current films and plays in order to trace the influence of this tradition on contemporary practice. A final performance will take place in a community venue.

Prerequisite: THR 251 Acting II: Scene Study

352. Experiments in Acting

This course, advanced in nature, will explore topics chosen by the instructor and may include focus on two or more aspects of the following: mask work, clowning, scene work from non-linear texts, spatial and sound awareness, ensemble and group work, agit-prop and overtly political theatre, the major avant-garde movements, and performance art and autobiographical theatre. Readings will be chosen from diverse plays and theoretical texts. Films may be shown as an example of exploration into style and text. The exact focus of the class will be explained prior to registration. Class will meet for four hours per week.

Prerequisite: THR 251 Acting II: Scene Study

450. Advanced Topics in Acting

This intensive laboratory course explores the ideas and techniques of one or more advanced approaches to performance. This studio class concentrates on topics such as Advanced Problems in Acting/Emotional

Techniques; Artists at the Reins: Imagining a Life in the Theatre; Acting in Film and Other Media; Acting the Song; and Acting on the Edge: Beckett, Ionesco, and others. Films may be shown as examples of techniques. Class will meet four hours per week.

Prerequisite: THR 251 Acting II: Scene Study

DIRECTING

370. Fundamentals of Directing

This class introduces the art form of theatre directing. Students learn key directorial concepts, focusing especially on issues of plot, character, space, and sound. A series of compact, supervised projects give students the opportunity to develop their abilities with these and other tools. In addition to teaching the basics of craft, the course presumes that directing is an expressive art form. Subsidiary concerns of the class will include the history of directing, models of rehearsal, directorial text analysis, and contemporary directing theory. Meets four hours per week.

Prerequisite: THR 251 Acting II: Scene Study

371. Directing: Process in Production

This is an experiential course that explores the process of bringing the play text to the stage. Working as an ensemble of actors and directors, the class will confront the challenges of production conceptualization, text analysis, problems in physical staging, and collaborative process. Each student will participate as a director and actor in the mounting of several one-act plays in the course of the semester. Members of the class will also produce two production prompt books based on their work as directors. Meets four hours per week.

Prerequisite: THR 251 Acting II: Scene Study

372. Major Directors: Theory & Practice

This course explores the ideas and techniques of one or more major theatre directors. Though the class will touch upon the historical development of each artist, it concentrates on the conceptual and practical bases of their work. Students will read and write about these signal figures and create many new theatrical projects inspired by them. Extensive collaboration will be expected. The directors studied will change from semester to semester but might include Edward Gordon Craig, Vsevolod Meyerhold, Bertolt Brecht, Arienne Mnouchkine, Augusto Boal, or Elizabeth LeCompte. Meets four hours per week.

Prerequisite: THR 251 Acting II: Scene Study or permission of the instructor

470. Advanced Topics in Directing

This studio course explores specialized ideas or techniques in theatre design. Possible topics might include: devised theatre; puppetry.

Prerequisite: A 300 level directing course or permission of the instructor.

DESIGN AND TECHNICAL THEATRE COURSES

161. Design for the Theatre

An introduction to 'total design' for the stage using a text-based approach to generate and test ideas as the core of creating a design. With the actors as the central focus of concentric rings of aesthetic choices, analysis would include a study in each successive circle: costume design – the fluid layer moving with the actor; stage properties – the objects the actor immediately uses; scenery – the contained world of the play; lighting design – the revelation of the physical world; and sound design – the most unconscious mood-maker onstage. The course will introduce the beginning stage designer to the creative process of making "art" onstage that is forged through a strong visual production concept.

Meets general academic requirement A.

162. Introduction to Stage Make-up

This course is an introduction to the basics of stage make-up; study includes historical and contemporary techniques in make-up and hair design and execution. Students will analyze the face and explore ways to manipulate and exaggerate the features with make-up and three-dimensional mediums. Projects include work with analyzing plays and characters to then create conceptual make-up charts that lead to realized

designs. Study includes human physiognomy, theatrical make-up styles, and rendering techniques. Crew work will be required.

163. Introduction to Sound Design

This course covers basic design theory and history, engineering, and technology for theatrical sound scoring and sound reinforcement. Classes include both lecture and hands-on labs in weekly three-hour sessions. Students write short plays that require sound designs, fabricate conceptual designs for short works, create a complete sound plot, engineer a series of audio projects, and work on lab projects and exercises. Students coming out of this class will be able to conceptualize, discuss, and research projects; record and create basic cues; and understand and operate simple sound systems.

164. Stage Management

0.5 course unit

An introduction to the craft and art of the theatre stage manager and the professional stage management process. The course will cover the theory and historical development of contemporary practice. Studies will require the acquisition of specific skills and knowledge, including a vocabulary of theatre terminology, blocking notation, production book, and scheduling techniques. Students will learn how technical and design elements are coordinated, how to effectively work with directors, and to call and maintain shows. This course is designed to integrate theories and concepts with skills and techniques in order to meet the problem-solving and organizational challenges commonly encountered by stage managers in the creation of a show.

165. Stagecraft: Aesthetics & Lighting

0.5 course unit

An introduction to a theatre designer's aesthetic choices, including an overview of stage design styles and the design process as applied to stage design. The course will especially cover the techniques, tools, and materials of stage lighting, including the hang and focus of a lighting design. A crew/laboratory requirement will complement class lecture.

166. Stagecraft: Scenic Techniques

0.5 course unit

This course will cover techniques, tools, and materials used in the construction and painting of scenery. Other technical studies will include safety, stage rigging and knots, properties, and production organization. A crew/laboratory requirement will complement class lectures.

167. Stagecraft: Costume Techniques

0.5 course unit

This course will cover techniques, tools, and materials used in the construction of costumes. Topics will include properties of different fabrics, sewing, cutting and draping, dyeing, and costume maintenance. A crew/laboratory requirement will complement class lectures.

260. Scene Design I

An exploration of the relationship between the play and its physical setting. Students will explore how the cultural/literary context of specific theatrical works can be expressed through the designer's process. A major focus will be on production conceptualization and the aesthetics of the theatre. Class members will be introduced to the basics of model building, color rendering practice, and the various media available to the modern designer. Crew work will be required. Offered in alternate years.

Prerequisite: THR 161 Design for the Theatre or permission of the instructor

Meets general academic requirement A.

261. Stage Lighting I

An exploration of the properties of light and their relation to the stage play in production. Areas to be covered include electrical theory, color theory, stage lighting design theory, and control systems. Students will develop an understanding of the potentials of the lighting instruments available to the designer and the uses of computer memory control. Crew work will be required. Offered in alternate years.

Prerequisite: THR 161 Design for the Theatre or permission of the instructor

Meets general academic requirement A.

262. Costume Design I

A survey of costume design and history with training in basic construction techniques. The application of basic design concepts and their relation to clothes, costume, and the human figure will be discussed and

related to script analysis exercises. Students will work on designing, patterning, and planning costumes for specific plays. Figure drawing and rendering technique will be covered, and crew work will be required.
Prerequisite: THR 161 Design for the Theatre or permission of the instructor
Meets general academic requirement A.

360. Scene Design II

Advanced work in production conceptualization and a discussion of the design process in relation to the demands of period drama. Students will study the historical development of architecture and period décor. Students will work to hone drafting and rendering skills. Offered in alternate years.
Prerequisite: THR 260 Scene Design I

361. Stage Lighting II

Continuing study in the practice of lighting design for the stage with principal emphasis on aesthetics and interpretation and discussion of lighting as an art form and its effect upon other aspects of theatre. Drafting as it relates to the completion of lighting plots and the associated paperwork will be taught. Class projects as well as concentrated involvement in actual productions will be required. Offered in alternate years.
Prerequisite: THR 261 Stage Lighting I

362. Costume Design II

Continued study in the practice of costume design for the stage with principal emphasis on advanced work with period style and historical research. Practice with advanced techniques in patterning, draping, and cutting. Advanced work in designer communication techniques: creatively including figure drawing, rendering, and swatching; organizationally including costume plots, budgeting, and production books. Crew work will be required.
Prerequisite: THR 262 Costume Design I

460. Advanced Topics in Design

This studio course explores specialized ideas or techniques in theatre design. Possible topics might include scene painting; moving lights technology.
Prerequisite: THR 161 Design for the Theatre or permission of the instructor.

ENSEMBLES AND INTERNSHIPS

900-959. Community Performance Ensemble

0.5 course units

Members of the Community Performance Ensembles in theatre and dance develop, rehearse, and tour programs (plays, dance performances, interactive dramatic pieces) for presentation at schools, community centers, and senior citizen residences. In addition to participation in the touring ensemble, students will be expected to submit a journal about their experience in mounting the production and touring to diverse audiences. Audition required for participation. May be repeated.

960. Theatre Internship

An opportunity for students to serve internships with professional theatre companies. These internships will usually be in such areas as stage management, technical theatre areas, and theatre administration. Acting internships are usually not available. Internships are available both in Allentown and at theatres outside the Lehigh Valley. Pass-fail only.

SPEECH COURSES (SPC)

240. Performing Literary Texts

A course designed to develop skills in the oral performance of literature. Students will analyze selections of prose, poetry, and dramatic literature and work toward reading them aloud with maximum effectiveness. This course will meet four hours weekly. Offered in alternate years.
Meets general academic requirement A.

250. Basic Speech

An introduction to the principles of public speaking. Concentration on the development of assurance and good platform presence through making frequent short speeches of simple expository or narrative types.

WOMEN'S STUDIES (WST) (Minor only)

Director: Professor Patrice DiQuinzio

Women's Studies is the study of women's lives, accomplishments, situations, and positions in societies and cultures. It also includes the study of gender—femininity and masculinity—and sexual identities as historically changing social categories complexly related to human biology. Students and scholars in women's studies use the methods of many disciplines, including history, literary studies, biology, psychology, sociology, anthropology, political science, communication and media studies, philosophy, and religion studies. They use these methods to understand the great variety of experiences that women have had and the many different positions that women have occupied in the world. They also bring these methods to bear on questions about gender and sexuality.

Women's studies emerged as a distinct academic field in the U.S. in the 1970's, largely because the traditional disciplines weren't asking questions about women and gender. Since then, the traditional disciplines have begun to incorporate these questions, and women's studies has not only used but also reinterpreted the approaches and methods of the traditional disciplines. So, at present, women's studies and the traditional disciplines interact proactively and productively, together generating new questions, new approaches, new data and information, and new ideas.

The Women's Studies minor can be combined with any major. Women's Studies is considered to be part of the division of humanities. In addition to the Women's Studies courses listed below, special topics courses are often available on a semester-by-semester basis. Students may also count toward the minor Women's Studies courses offered at other LVAIC schools an internship, or an independent study.

Minor Requirements

The minor consists of six courses:

WST 101 Introduction to Women's Studies

Five additional courses chosen in consultation with the Director, including the following already existing courses:

ATH 250 Anthropology of Sex & Gender

COM 374 or 375 Gender, Communication, & Culture

ECN 247 or 248 Economics of Men & Women at Work

ENG 233 or 234 Women Writers

ENG 267 or 268 Literature & Sexuality
 HST 114 Introduction to History: Women's Spanish Caribbean
 HST 327 or 328 Women's America
 PHL 339 Feminist Philosophy
 PSY 314 Psychology of Women
 REL 104 Sex, Gender, & Religion
 REL 351 The Feminine in South Asia
 REL 353 Gender & Sexuality in Judaism
 SOC 105 The Family
 SOC 335 Inequality & Power
 THR 301 or 302 Theories of the Theatre: Feminist Theories

COURSES

101. Introduction to Women's Studies

Introduction to Women's Studies introduces students to basic issues, ideas, and approaches in women's studies and allows students to improve their ability to think critically and write analytically. Because of the interdisciplinary nature of women's studies, the course also emphasizes library research methods so that students learn to find and use sources and materials from a variety of academic disciplines. Basic issues, concepts, and approaches in women's studies are introduced by focusing on a specific topic, such as motherhood or women and paid work, and approaching that topic from a variety of perspectives. Throughout the semester, students work on a research paper whose topic is related to the course topic, approaching their specific topic from a variety of perspectives. The course includes interactive pedagogies, such as small group work, so that students learn the interdisciplinary methods of women's studies by engaging in interdisciplinary research themselves and by considering the research and writing of other students.

Meets general academic requirement W.

320. Sex, Gender, & Identity

An examination of the relationships among bodily sex, gender, personal, and social identity, including sexuality, social contexts, and the operations of power. The goal of the course is to understand and critically analyze the development of gender and sexuality in individuals, the persistence, pervasiveness, and social significance of gender differences, and the intersection of gender, sexuality, and power. Topics include the biological and evolutionary bases of sex and gender, and social psychological, sociological, psychoanalytic, and Foucauldian perspectives on sex, gender, and sexuality.

960. Women's Studies Internship

Supervised work and/or community service, arranged in consultation with the Director of Women's Studies.

Interdisciplinary Concentrations



INTERDISCIPLINARY CONCENTRATIONS (MAJORS/MINORS NOT AVAILABLE):

While the concentrations listed below do not lead to a major or a minor and are not listed on the transcript, they suggest ways students may elect clusters of courses of special interest to them. Students may wish to complete these courses either as electives or to partially fulfill general academic requirements. Some of the courses listed have prerequisites, specified in the course description. In addition, special topics courses or seminars are available on a semester-by-semester basis. Students are encouraged to combine courses in concentrations of interest other than those listed below.

Classical Civilization (CLS)

Suggested courses:

ARH 201 or 202 Ancient Art
 HST 201 or 202 Ancient Near East
 HST 203 or 204 Ancient Greece
 HST 205 or 206 Ancient Rome
 LTN 101, 102 Elementary Latin I & II
 LTN 203, 204 Intermediate Latin I & II
 PHL 221 Ancient Philosophy

310, 311. Classical Drama

Reading and discussion of selected plays of the Greek and Roman tragedians and comedians; consideration of theme and statement in interpretation of the plays, of world-views, and cultural values implicit in them, and of societal and individual purposes served by drama.

Meets general academic requirement L (and W which applies to 311 only).

320, 321. Classical Mythology

An introduction to major classical myths with particular attention given to the relationship of myth to religion, philosophy, psychology, and history. Readings are from a variety of Greek and Roman authors.

Meets general academic requirement L (and W which applies to 321 only).

Latin American Studies

Suggested courses:

SPN 322 or 323 Civilization of Latin America
SPN 415 Spanish American Literature I
SPN 416 Spanish American Literature II
SPN 417 Contemporary Spanish American Novel
HST 291 or 292 Colonial Latin America
HST 293 or 294 Modern Latin America
SOC 224 American Ethnic Diversity
PSC 244 or 245 Governments & Politics of Latin America
PSC 246 or 247 Developing Nations: Societies in Transition

Non-Science Medical

Suggested courses:

ECN 243 or 244 Health Care Economics
HST 345 or 346 Disease & Medicine in American History
HST 347 OR 348 History of Public Health in America
PBH 100 Issues in Public Health
PHL 241 Biomedical Ethics
PSC 213 or 214 Public Health Policy

Pre-Professional Programs



HEALTH PROFESSIONS PROGRAM

Advisor: Ms. Lori Provost

All students who have definite or potential interest in a career in the health professions should register and consult with the Health Professions Office, as early as possible during the fall semester of their first year.

The Health Professions Office is responsible for counseling all Muhlenberg students who are interested in careers in the health professions, including those interested in becoming physician assistants, nurse practitioners and physical and occupational therapists. In the majority of cases, pre-health students are not required to belong to any special program and it is not necessary for them to major in science. Many students choose to double major, adding humanities or social science to their concentration in the natural sciences. Majors are chosen after a careful assessment of the student's interests and talents.

Admissions requirements differ somewhat according to the type of health professions school and occasionally change. Biochemistry, for instance, is increasingly being required of competitive dental school applicants. Presently, the following schedule satisfies the basic admission requirements for American schools of chiropractic, dentistry, medicine, optometry, podiatry and veterinary medicine:

One year each of: biology, general chemistry, organic chemistry, physics (all with labs) and English. (Some schools recommend a year of calculus, but do not require it.) Because of the importance of maintaining the integrity and continuity of committee evaluations of our applicants to health professions schools, we strongly recommend that our students take all of the above-named courses at Muhlenberg. Any request for an exception to this policy must be presented for prior approval, in writing, to the department concerned for a final decision.

Often individual schools in the allied health fields have additional requirements. It is important for students to make certain early in their careers that they will take the appropriate courses to satisfy all of the admission requirements of a particular school in which they are interested.

PRELAW PROGRAM

Advisors: Kellie Provost-Brown, Director, Career Development & Placement and Professor Alton J. Slane, Political Science

This interdisciplinary program of study, although not a major program as such, is especially designed to attain the goals prescribed by the American Association of Law Schools for prelegal preparation: (a) to provide the student with basic information about economic, political and social institutions and values; (b) to cultivate an appreciation of historical documentation and analysis; (c) to develop requisite skills in the use of the English language, oral as well as written; (d) to develop an ability to think creatively and critically and use systematic reasoning—deductive, inductive and by analogy.

The courses listed within the departmentalized areas are all within the guidelines provided by the American Association of Law Schools for prelegal preparation and are strongly recommended for all prelaw students who elect to participate in the prelaw program. It should be noted that this program partially fulfills the College's general academic requirements both in the social sciences and the humanities.

Course Selection:

- A. Economics and Business**
ECN 101 Principles of Macroeconomics
ACT 101 Financial Accounting
- B. English and Drama and Speech**
ENW 203 Nonfiction Writing
SPC 250 Basic Speech
- C. History**
HST 223 or 224 Revolutionary America
HST 225 or 226 Nineteenth Century America
HST 227 or 228 Twentieth Century America I – 1900-1945
HST 233 or 234 American Cultural and Intellectual History Since 1900
HST 323 or 324 Constitutional History of the United States
- D. Philosophy**
PHL 110 Critical Thinking **OR**
PHL 111 Formal Logic
PHL 333 Ethics **OR**
PHL 242 Law and Morality **OR**
PHL 245 Business Ethics

- E. Political Science**
 - PSC 101 American National Government
 - PSC 203 or 204 Civil Rights and Liberties
 - PSC 205 or 206 Constitutional Law I
 - PSC 207 or 208 Constitutional Law II
 - PSC 351 or 352 Early Western Political Thought **OR**
 - PSC 353 or 354 Modern Western Political Thought
- F. Psychology**
 - PSY 101 Introductory Psychology
- G. Sociology**
 - SOC 101 Introduction to Sociology
- H.** Two courses in literature as offered by the English or the Languages, Literatures, and Cultures departments.

All students, regardless of major, who elect to participate in the prelaw program or who seek advice and direction regarding prelaw studies, or need advice before applying to law school, should register with Kellie Provost-Brown in Career Development.

RELIGIOUS VOCATION PREPARATION

Advising: Office of the Chaplain

Students considering seminary, graduate theological study, or work in a religious tradition are encouraged to design programs which emphasize history, philosophy, English, classical languages and religion. A major and a minor in religion are available at Muhlenberg as well as courses in modern Hebrew. Students should consult with the advisor about program requirements, denominational procedures for persons preparing for ministries, and the selection of undergraduate courses.

Students are encouraged to become involved in religious organizations and activities both on and off campus. Study groups on the Bible, Sacred texts, social issues, personal development, and ecumenical and interfaith relations are available on campus. Also available are many community service opportunities such as tutoring children, visiting the elderly, helping to construct homes and delivering food to the hungry.

The Muhlenberg Community

(As of September 1, 2007)



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