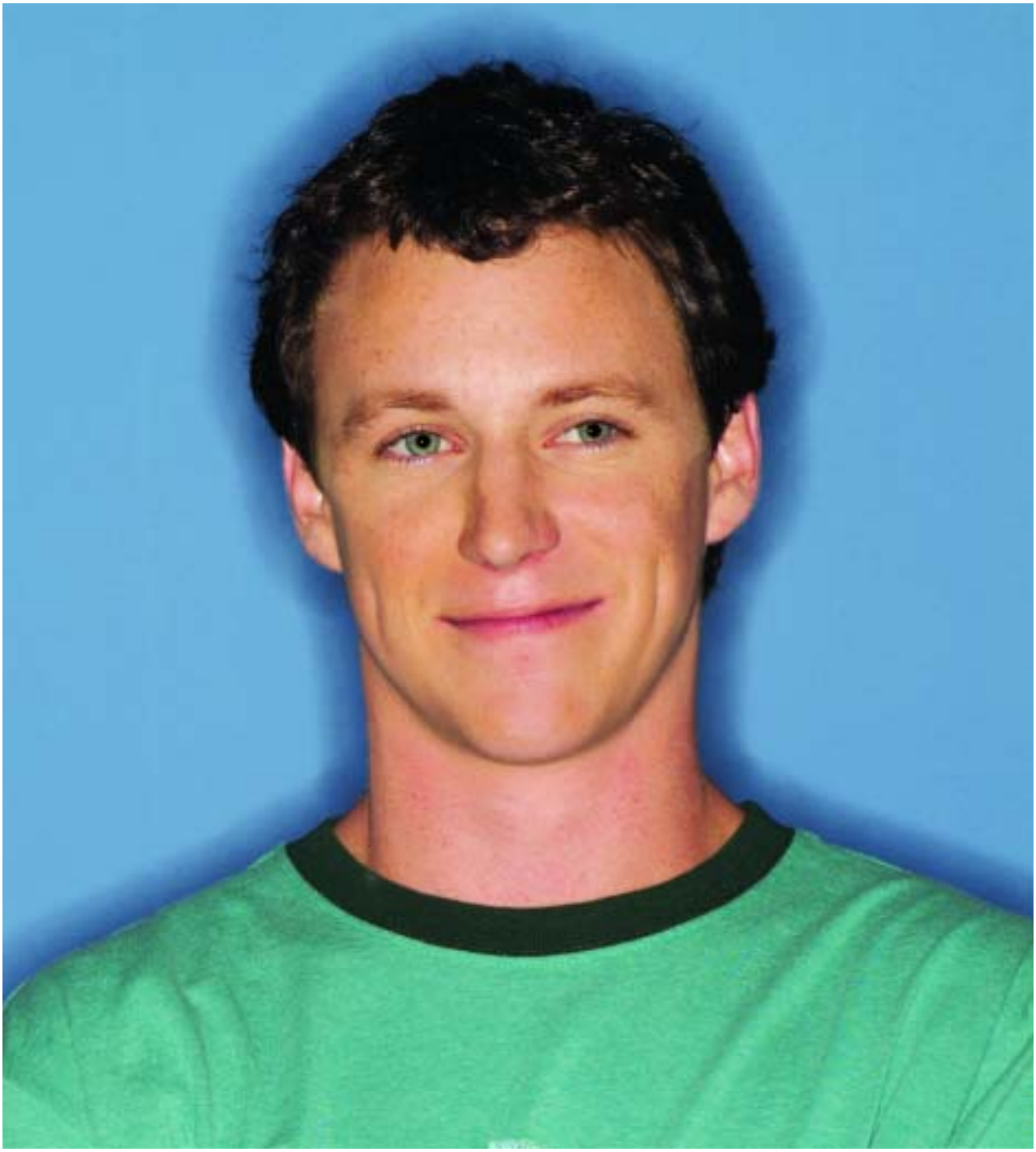
School of Undergraduate Studies

2004-2005 Catalog



CHESTNUT
HILL
COLLEGE

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Chestnut Hill College does not discriminate on the basis of race, color, national and ethnic origin, sex, disability or age in its programs and activities generally made available to its students. It does not discriminate on the basis of race, color, national and ethnic origins, sex, disability or age or on the basis of any other criteria which is inconsistent with state or local laws in the administration of its educational policies, admission policies, scholarship and loan programs, and athletic and other school administered programs.

Chestnut Hill College endeavors to present an accurate overview of its curricular and co-curricular programs, facilities and fees in this publication. The information contained herein is current as of July 1, 2004. As growth and changes are inevitable, Chestnut Hill College reserves the right to alter any program, facility or fee described in this publication without notice or obligation.

Failure to read this catalog and other sources of regulation governing academics and student life at Chestnut Hill College does not excuse the student from the requirements and regulations discussed herein.

Accreditation and Memberships

Chestnut Hill College holds institutional accreditation by the Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, Philadelphia, PA, 19104, phone: 215.662.5606. Institutional accreditation does not imply specialized accreditation of the programs offered.

Certification programs are approved by the Department of Education of the Commonwealth of Pennsylvania.

Chestnut Hill College holds membership in the Association of American Colleges, the America Council on Education, the National Catholic Education Association, the American Association of University Women, the Council of Independent Colleges and Universities, the College Entrance Examination Board, Association of Catholic Colleges and Universities, Association of Colleges of the Sisters of St. Joseph, Association of Catholic Colleges and Universities, Association of Independent Colleges and Universities, Association of Governing Boards of Universities and Colleges, National Association of Independent Colleges and Universities, Neylan Commission on Higher Education, Pennsylvania Association of Colleges and Universities, Southeastern Pennsylvania Consortium for Higher Education (SEPCHE), and numerous other educational groups and learned societies.

The Southeastern Pennsylvania Consortium for Higher Education (SEPCHE) is a consortium of eight independent higher education institutions in the Greater Philadelphia region who engage in a collaborative approach to the challenges of higher education and work together to promote quality and efficiency of academic programming, student access, faculty development, institutional operations and community outreach, through sharing a range of activities, services, technology and information.

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95 Molecular Biology Major
96 Environmental Sciences Major
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96 Molecular Biology
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101 Chemistry Major
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102 Biochemistry

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2004 - 2005
ACADEMIC CALENDAR

FALL 2004

Late Registration Fee Begins	August 16
Residence Halls Open, 10:00 am	August 28
Business Day	August 30
Evening Classes Begin	August 30
Day Classes Begin	August 31
Opening Liturgy 2:00 PM	September 1
Classes Resume, 12:45 pm	September 2
Labor Day Holiday (no classes)	September 6
Classes Resume	September 7
Last Day to Drop/Add Classes	September 7
Withdrawal Fee Begins	September 8
Opening Convocation 10:30 AM	September 15
Last Day to Withdraw from Courses w/o Failure	October 20
Last Day to Change Status (P/F, Audit)	October 20
Fall Break	October 25, 26
Classes Resume	October 27
Thanksgiving Holiday Begins 12:20 pm	November 24
Residence Halls Close, 5:00 pm	November 24
Residence Halls Reopen, 10:00 am	November 28
Classes Resume	November 29
Final Exams	December 13-17
Residence Halls Close, 5:00 pm	December 18
Fall Semester Grades Due	December 21

SPRING 2005

Late Registration Fee Begins	January 3
Residence Halls Open, 10:00 am	January 9
Classes Begin	January 10
Day of Service in Honor of Martin Luther King, Jr. (Classes will meet)	January 17
Last Day to Drop/Add Courses	January 17
Withdrawal Fee Begins	January 18
Last Day to Withdraw from Courses w/o Failure	March 4
Last Day to change Course Status (P/F, Audit)	March 4
Spring Break	Mar 7-12
Residence Halls Reopen, 10:00 am	March 13
Classes Resume	March 14
Easter Holiday Begins, 12:20 pm	March 23
Residence Halls Open, 10:00 am	March 28
Classes Resume	March 29
Honors Convocation	April 24
Final Exams	May 2 - 6
Residence Halls Close, 5:00 pm	May 6
Residence Halls Close, 5:00 pm for Graduates and Graduation Volunteers	May 7
Graduation	May 7
Summer Session I Begins	May 10
Spring Semester Grades Due for those not graduating on May 7	May 11

(Graduating Senior grades are due 24 hours after final exam)

THE MISSION OF CHESTNUT HILL COLLEGE

THE MISSION OF CHESTNUT HILL COLLEGE IS TO PROVIDE STUDENTS WITH HOLISTIC EDUCATION IN AN INCLUSIVE CATHOLIC COMMUNITY MARKED BY ACADEMIC EXCELLENCE, SHARED RESPONSIBILITY, PERSONAL AND PROFESSIONAL GROWTH, SERVICE TO ONE ANOTHER AND TO THE GLOBAL COMMUNITY, AND CONCERN FOR THE EARTH.

Chestnut Hill College, founded by the Sisters of St. Joseph in 1924, is an independent, Catholic institution that fosters equality through education. Faithful to its strong liberal arts tradition, Chestnut Hill College offers academic programs of excellence in the areas of undergraduate, graduate, and continuing studies

True to its Catholic heritage, Chestnut Hill College espouses the beliefs and values inherent in the Judeo-Christian tradition while it respects the contributions made by other faith traditions in the development of the whole person. The College nurtures a sense of integrity, spirituality, and social justice in all.

The College community dedicates itself to four purposes in fulfilling this mission. It seeks:

- to provide avenues for students to achieve academic excellence and to pursue research in their major field or in interdisciplinary studies. The College encourages students to explore and experience diverse curricula and to participate in exchange programs with other institutions of higher education.
- to initiate links between the world of learning and the world of work through curricular planning, technological opportunities, and career preparation. The College guides students in applying theoretical learning through experiential education designed collaboratively by faculty and students.
- to uphold an atmosphere of communal respect in which all may clarify and articulate personal values and beliefs while exploring the ethical and moral dimensions underlying all relationships. The College encourages inter-faith opportunities by acquainting all students with Catholicism, its theology and its Judeo-Christian roots, and by engaging in dialogue with women and men of other beliefs.
- to create local and global connections that enable students to respond to the needs of others through service-oriented enterprises. The College educates students to identify and to address issues of social justice and to work toward systemic change.

Approved by the Chestnut Hill College Board of Directors October 7, 2002

ADMISSIONS

Chestnut Hill College welcomes students of all ages whose aptitude and academic record demonstrate the ability and motivation to accept an academic challenge and who give promise of making a positive contribution to the College community. Students at Chestnut Hill College are challenged by high academic standards and supported by rich resources, excellent facilities, and dedicated faculty to achieve personal goals. Graduates of Chestnut Hill College are well prepared to successfully enter a competitive job market or distinguished graduate program.

SECONDARY SCHOOL PREPARATION

Each year, the School of Undergraduate Studies enrolls a first-year class of motivated, diverse students whose records show academic achievement, intellectual curiosity, and potential for growth. We recommend that a student prepare for Chestnut Hill College by taking the strongest course of study offered by his/her high school. Specifically, this should include the following where possible:

- four years of English composition and literature
- four years of social science/history
- three years of science
- three years of mathematics
- two years of foreign language

Chestnut Hill College will accept college-level course work completed prior to matriculation provided the relevant courses were completed successfully at an accredited college or university and were not applied to the requirements for high school graduation. Credit may also be given for performance on Advanced Placement examinations and completed International Baccalaureate Diplomas.

APPLYING FOR ADMISSION

Application for admission should be made as early as possible after the completion of the junior year of high school. Chestnut Hill College subscribes to a rolling admissions policy that strives to notify the applicant of the Admissions Committee's decision within two weeks after a complete application is received. The following credentials are required for a complete application:

- Completed Chestnut Hill College Application (preferred) or Common Application.
- Thirty-five dollar non-refundable application fee.
- Score results from the Scholastic Aptitude Test (SAT I) or American College Test (ACT).
- Official high school transcript.
- Two letters of recommendation.
- Essay or personal statement

The Admissions Committee reserves the right to request additional information, such as a personal interview with a member of the Admissions staff.

ADMISSIONS OPTIONS

Early Decision is an option available for students with strong qualifications who have selected Chestnut Hill College as their first choice. Candidates for Early Decision may initiate applications to other colleges, but if accepted under Early Decision, a candidate must withdraw all other college applications and may not make any further applications. Offers of admission are made with the understanding that the high school record continues to be of high quality throughout the senior year. The deadline for applying for early decision is December 15.

Regular Decision is designed for students who wish to keep open several college options during the application process. Candidates may apply at any time, but it is recommended that applications be submitted as soon as possible after the completion of the junior year, and not later than January 15, for priority consideration. Students who wish to enter for the spring semester should have application materials completed no later than December 15.

Early Admission is an option for a student judged to be ready for college after his/her junior year of high school. The candidate must be mature, exceptionally academically prepared, recommended by his/her high school counselor and have the

approval of his/her principal. Successful candidates are classified as first-year students and use the regular admission procedures. An admission interview is required of all early admission applicants.

INTERNATIONAL STUDENTS

Chestnut Hill College welcomes applications from qualified international students. International students must satisfy all admissions requirements and procedures, should submit a complete set of academic credentials in English translation, and must demonstrate proficiency in the English language. Chestnut Hill College requires international students who have not taken the SAT I and/or ACT to submit the results of the Test of English as a Foreign Language (TOEFL). An affidavit of financial responsibility must be submitted to secure an I-20 form.

TRANSFER STUDENTS

Chestnut Hill College welcomes transfer students and maintains articulation and/or course equivalency agreements with several two-year institutions. Students who have completed an associate's degree at an accredited institution may be eligible, depending on their GPA and anticipated major, for admission to Chestnut Hill College with full transfer of up to 75 college credits and junior status. Students who transfer but do not have an associate's degree will have their transcript evaluated on a course-by-course basis. At least 45 credits must be earned at Chestnut Hill College in order to be awarded a bachelor's degree. Transfer applicants must submit the following credentials to be considered for admission:

- Completed Chestnut Hill College Application (preferred) or Common Application.
- Thirty-five dollar non-refundable application fee.
- Official transcripts from all colleges attended.
- High school transcript (if fewer than 24 college-level credits have been completed)
- Score results from the Scholastic Aptitude Test (SAT I) or American College Test (ACT) if fewer than 24 college-level credits have been completed.
- Two letters of recommendation.
- Essay or personal statement

A cumulative GPA of 2.0 or higher is required to be considered for acceptance to Chestnut Hill College. The Admissions Committee reserves the right to request additional information and a personal interview with a member of the Admissions staff.

RE-ADMIT STUDENTS

Chestnut Hill College welcomes applications from students who have previously attended Chestnut Hill College and have not attended classes for a full calendar year prior to their application for readmission. Re-admit applicants must submit the following to be considered for admission:

- Completed Chestnut Hill College Re-admit Application.
- Thirty-five dollar non-refundable re-application fee.
- Official transcripts from all colleges attended since leaving Chestnut Hill College.
- Re-admission is not guaranteed.
- Two letters of recommendation
- Essay or personal statement

SPECIAL PROGRAMS

The Chestnut Hill College **Interdisciplinary Scholars Program** is designed to challenge students to pursue a creatively different approach to the liberal arts. Please refer to the Interdisciplinary Scholars Program section of the catalog for more information.

FIVE-YEAR DUAL-DEGREE PROGRAMS

Five-Year Combined B.A./M.S. Degree Program in Counseling Psychology

The B.A./M.S. Program in Counseling Psychology provides the opportunity for exceptionally qualified students to earn both a bachelor's degree and a master's degree in five years. Unlike other "three-two" programs, that require students to complete the undergraduate work before starting graduate work, this program allows study at undergraduate and graduate levels in a parallel format, creating a rewarding and challenging program to focused, qualified students. This offers a financial benefit in that tuition is paid at the undergraduate rate for the first four years, even while the student is enrolled in graduate courses. This results in a substantial savings in tuition costs.

Admission

The B.A./M.S. program is a professionally oriented program that will admit only those applicants who are committed to a career in counseling psychology. Due to the rigorous curriculum of this program, applicants should have a high school GPA of 3.00, and minimum combined SAT scores of 1000. In addition, admissions interviews conducted by members of the undergraduate and the graduate psychology programs are required to assess the applicant's readiness to pursue a successful professional career in counseling psychology.

To obtain more information about admission to the combined B.A./M.S. Program in Counseling Psychology, please contact Nancy Porter, Ph.D., B.A./M.S. Coordinator, 215.248.7119; nporter@chc.edu

Five-Year Combined B.A./M.Ed. Program with Special Education Emphasis

The Chestnut Hill College Department of Education's combined B.A./M.Ed. program will enable students to earn certification in elementary education and a Master's degree in Education with emphasis in Special Education in a single five-year program. The junior year incorporates beginning course work in special education while completing the elementary certification program. In just another year's time these students will have additional course work and practicum experiences involving exceptional children in the regular school setting as well as programs in the community serving children and adults with more distinct educational and adaptive learning needs. The overall goal of this program is to prepare teachers to teach in a classroom with children who have exceptional educational needs while at the same time providing them with experiences working with children in separate community-based settings. (NOTE: The College is awaiting permission to offer Special Education certification from the State Department of Education)

To obtain more information about admission to the Combined B.A./M.Ed. in Elementary Education with Special Education emphasis, please contact Carol Pate, Ph.D., Chair.

Five-Year Combined: Program: Bachelor's Degree in Computer Information Sciences/Technology and Master's Degree in Applied Technology

The need for an in-depth understanding of computer technology in today's society has opened the doors for an exciting new program which will enable a student to complete both a bachelor's and a master's degree in five years. Thus, the undergraduate student will have the opportunity to enter the field of technology as a professional with an impressive portfolio which demonstrates both academic and technological achievements. Graduates of this combined program will have the academic, technological, professional, and experiential qualifications to move seamlessly from the internship opportunity into a full time position as a professional in the field. This program will prepare the graduate to assume high level positions in such challenging areas as web page technology and multimedia design and production. For additional information on this program refer to page 49 in this catalog.

To obtain more information about admission to the Combined B.S./M.S. in Computer Information Sciences/Technology and Applied Technology, please contact Lisa Olivieri, SSJ, PhD., Assistant Professor in computer science, 215.248.7001, lolivier@chc.edu

The Chestnut Hill College **Summer Success Program** is designed to provide academic support for students whose high school performance indicates they would benefit from additional academic services. The program offers the opportunity to earn college credits in courses offered during the summer prior to the first year of college. Some candidates for admission may be required to attend this summer program as a condition of their acceptance.

The Chestnut Hill College **Kirby Program,** named for Mary Xavier Kirby, SSJ, the fourth president of Chestnut Hill College, is specifically designed to assist women and men of non-traditional age who are returning to college or who are beginning their degree program.

CONTACT INFORMATION

School of Undergraduate Studies

For more information about academics, visitation dates or to schedule a tour of the campus, contact Chestnut Hill College Admissions, 9601 Germantown Avenue, Philadelphia, PA, 19118. Telephone: 800.248.0052 (out-of-state) 215.248.7001 (in-state). Fax: 215.248.7082, E-mail: chcapply@chc.edu or Web site: www.chc.edu

School of Continuing Studies, ACCELERATED Degree Program

The School of Continuing Studies, **ACCELERATED Degree Program,** designed for working women and men, offers early morning, evening and weekend courses in six 8-week sessions per year. For information, contact the School of Continuing Studies, **ACCELERATED Program,** 9601 Germantown Avenue, Philadelphia, PA 19118. Telephone: 215.248.7063. Fax: 215.248.7065, E-mail: chcacc@aol.com or Web site: www.chc.edu

School of Graduate Studies

The School of Graduate Studies offers master's degrees in ***Applied Technology, Counseling Psychology and Human Services, Education, Holistic Spirituality, Holistic Spirituality*** and ***Spiritual Direction, Administration of Human Services.*** The School of Graduate Studies also offers a doctorate in ***Clinical Psychology (Psy.D.).*** For information contact the School of Graduate Studies, 9601 Germantown Avenue, Philadelphia, PA 19118. Telephone: 215.248.7170. E-mail: graddiv@chc.edu or Web site: www.chc.edu

STUDENT LIFE AND SERVICES

Chestnut Hill College has the unique advantage of being an urban school in a suburban setting. The campus comprises 45 acres of trees, groves and buildings. The Chestnut Hill shopping area is less than a 10-minute walk from the campus.

The College and the city share a vibrant and varied cultural and social life. The local community supports an orchestra, the Woodmere Art Gallery, many smaller galleries, the renowned Morris Arboretum and the extensive greenery and open space of Fairmount Park. The varied shops and restaurants of Chestnut Hill attract visitors from throughout the region. Center City Philadelphia, with its many museums, historical places and award-winning restaurants, is easily reached by commuter train.

RESIDENTIAL LIFE

Chestnut Hill College is a residential campus with three campus residence halls: Fontbonne, Fournier, and St. Joseph. Housing options include singles, doubles, triples, and suites. The School of Undergraduate Studies guarantees housing for all four years. First-year students are matched with roommates on the basis of common interests and usually live in Fontbonne Hall.

Staffing each residence hall is a dormitory director, and several Resident Advisors - upper-class Chestnut Hill College students selected on the basis of their leadership and interpersonal skills. Throughout the academic year, the residence halls sponsor activities ranging from workshops, seminars and lectures to parties and intramural sports contests.

Resident students subscribe to the College meal plan. Commuter students may purchase food and beverages in the dining room. Meals are served cafeteria-style in a smoke-free environment.

SPORTS AND FITNESS

Chestnut Hill College offers eight intercollegiate varsity sports for women and five intercollegiate varsity sports programs for men. The School of Undergraduate Studies is a NCAA Division III institution and competes in the Atlantic Women's Colleges Conference (AWCC) and the North Eastern Athletic Conference (NEAC).

Fall

- Women's soccer
- Men's soccer
- Women's tennis
- Women's cross country
- Men's cross country
- Women's volleyball

Winter

- Women's basketball
- Men's basketball

Spring

- Women's lacrosse
- Women's softball
- Men's tennis
- Women's golf
- Men's golf

The Physical Education Department offers programs in sports activities as well as programs to improve students' level of fitness and well-being. The College's facilities include Sorgenti Arena, an auxiliary gymnasium, an athletic training room, locker facilities, fitness room, swimming pool, tennis courts, playing fields, outdoor basketball, and outdoor volleyball courts.

STUDENT ACTIVITIES

All Chestnut Hill College School of Undergraduate Studies students are members of the **Student Government Association,** which elects a representative student government. Students also serve with Chestnut Hill faculty and administrators on numerous College committees in the areas of curriculum and student activities, among others.

The **Chestnut Hill Activities Team (CHAT)** is a student organization that plans on-campus activities and performances including comedy shows, concerts, guest speakers, movie nights, and game shows. The CHAT also arranges trips to Baltimore, New York, and other destinations.

Student Activities include academic interest groups, drama and music groups, cultural organizations, yearbook and newspaper staffs, and community action groups.

- African-American Society
- Asian-American Society
- *Aurelian* (yearbook)
- Biology Club
- Chamber Singers
- Community Service (volunteer branch of SGA)
- Education Club
- Environmental Club
- *Fourth Estate* (newspaper)
- Forum-Women's Issues Club
- Griffin Club (student hospitality organization)
- Hispanics in Action
- History Club
- Instrumental Ensemble
- Mask and Foil Drama Club
- Phi Beta Lambda (business society)
- Political Science Club
- MENC (Music Educators National Conference)
- MOCC (Mosaic of Cultural Club)
- Psychology Club
- Students for Peace and Justice

STUDENT SERVICES

The **Office of Campus Ministry** serves two functions: liturgical/spiritual activities including prayer groups, spiritual counseling, retreats; and community service activities such as volunteering for youth tutoring and working with the elderly and the homeless. 215.248.7095.

Academic Support Services provides students with help in subject areas.

Foreign Language Resource Center offers resources such as individual tutoring, Internet, tapes, and computer programs. 215.242.7951.

Math Center provides individual tutoring and student assistance using computer programs, videos, manipulatives and texts. 215.248.7088.

Writing Center offers consultation and assistance with academic writing; requests for tutoring, exclusive of foreign language and math, may be made here. 215.248.7114.

Study Skills Center offers techniques to maximize study time by learning effective and efficient college study strategies. Good study skills will help the student achieve his/her goals. 215.248.7086.

To make an appointment, please call the appropriate Center. The Centers are accessible during the Fall and Spring semesters as defined by the School of Undergraduate Studies Academic Calendar.

Disability Policy. Chestnut Hill College is committed to providing equal educational opportunities for qualified students. The College is in compliance with applicable federal and state laws. Disclosure of a disability is voluntary and confidential. To access services, students must submit documentation to verify eligibility under Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990.

Documentation must state the nature and duration of the disability and provide adequate information to support accommodations. Accommodations will be determined on a case-by-case basis. The College reserves the right to request additional information, if necessary, especially in cases where recertification of a disability is warranted.

Documentation should be submitted to: Catharine Fee, SSJ, Associate Dean for Academic Advising, Saint Joseph Hall, Office #65, 215.248.7199.

Logue Library houses 140,000 volumes on three floors of open stacks. In addition to the circulating materials, there are 550 periodicals and a reference collection in the Alumnae Reference Room on the main floor, as well as an extensive electronic research center. Among the electronic the resources are ERIC, PsychINFO, Lexis-Nexis, ATLA, JSTOR, Ebscohost Elite and Wilson OmniFile Mega. Students may access the catalog and electronic resources via the World Wide Web by using the following address: www.chc.edu/library. Passwords for databases are available to registered students in the library.

Along with a rare books collection that features British literary works and early Catholic liturgical music, **Logue Library** houses an Irish Collection specializing in Irish history and a Curriculum Library holding children's literature and curriculum materials for grades K-12.

The main collection is classified according to the Library of Congress Classification System, while the Curriculum Library uses the Dewey Decimal System.

To borrow books or reserve materials all students MUST have a current Chestnut Hill College ID with a library bar code. Bar codes are obtained at the circulation desk.

Library hours:

Monday to Thursday	8:00 a.m. to 12:00 p.m.
Friday	8:00 a.m. to 9:00 p.m.
Saturday	9:00 a.m. to 5:00 p.m.
Sunday	Noon to 12:00 p.m.

Library hours during the summer sessions and breaks are subject to change. They are posted on the library door, at the paging desk, and are announced on the library voice mail (215.248.7050 or 215.248.7055).

PHOTO ID

Photo ID cards are available in the Office of Student Affairs. In an effort to provide adequate security, all students must carry an ID card issued by the Dean for Student Affairs Office. ID cards are non-transferable and, upon request, must be surrendered to authorized personnel, e.g., security officers in the performance of their duties. The ID card is required to take books out of the library, to use the computer center, to use the pool and fitness center, to participate in the meal plan, and obtain a parking permit. There is a fee to replace lost or damaged ID cards.

The Office of Career Services provides information and guidance on careers, professions, employment, and graduate school opportunities and also coordinates the College's Experiential Education Program. The Office of Career Services offers programs and workshops on resume writing, interviewing, and job-search skills, and maintains a credential service for graduating students. The credential service forwards the student's resume and reference letters to potential employers or graduate/professional schools. Career connections, an innovative mentor program, links students with successful alumnae to learn more about potential professions and careers.

The Experiential Education Program provides opportunities for internships and cooperative education. The program is monitored by the Experiential Education Coordinator.

The Office of International Student Services advises international students and provides information on American academic procedures as well as U.S. immigration and visa requirements.

The Academic Computer Center is located on the ground floor of St. Joseph Hall. Both Macintosh and IBM-compatible computers are available for student use on a walk-in basis during posted daytime and evening hours. Students may take advantage of major state-of-the-art software for purposes such as word processing, statistical analysis, graphics, desktop publication, database manipulation, web page editing and web browsing over the Internet. Laser printers are available for high quality printed work both in black and in color.

A software lending library is also located at the Academic Computer Center, from which students may borrow magazines, books and educational software. Students may also sign out camcorders and stands for various classes as needed. Several laptop computers are also available for students to borrow.

The Academic Computer Center also maintains three teaching labs, two for IBM-compatible PC's and one for Macintoshes. The computer labs are available for classroom instruction ranging from computer software application basics to sophisticated

programming languages. The computer labs are also available for use by faculty for the integration of technology in education. The Video Editing Center is an extension of the Computer Center and houses state-of-the-art video editing systems.

The Computer Center is open to Chestnut Hill College students only. Students may apply for a personal account on the College network, giving them an Internet e-mail address and access to the Internet. All students using College computer and technology resources are required to agree to the College's acceptable use policy and to the rules and policies regulating the use of College computer and technology resources.

FINANCIAL INFORMATION

Student Accounts Office

Students may make payments on their account and receive information about their account in the Student Accounts Office, located on the second floor of St. Joseph Hall. The Student Accounts Office hours are:

Monday	10:00 a.m. to 5:00 p.m.
Tuesday	10:00 a.m. to 7:00 p.m.
Wednesday	10:00 a.m. to 7:00 p.m.
Thursday	10:00 a.m. to 5:00 p.m.
Friday	10:00 a.m. to 4:00 p.m.

Students may also contact the office by phone from 9:00 to 5:00, Monday through Friday or by email at any time.

Student Accounts Office 215.248.7116
accounts@chc.edu

PAYMENT OF BILLS

By act of registration, students accept responsibility to pay the charge for the entire semester, regardless of the method or source of payment. In general, all monies due to Chestnut Hill College for a specific semester must be paid according to the following schedule:

	Payment Due Date
Fall Semester	August 1
Spring Semester	January 1
Summer	First Day of Class

Chestnut Hill College accepts cash, check, money order, Visa and MasterCard as forms of payment. Payments may be mailed to:

Chestnut Hill College
PO Box 41551
Philadelphia, PA 19104-41551

Please include the student ID number on all payments.

All students who have not fully satisfied their tuition and fees by the stated due date, including those who have applied for financial aid which has not as yet been credited to their account, are asked to complete a Student Financial Responsibility Agreement. This agreement defines various payment options that may be used by the students to settle their full balance in a timely manner.

Chestnut Hill College offers an interest free Monthly Payment Plan (MPP); there is a $55 enrollment fee for the MPP. Students may pay the semester balance in up to four payments and the annual balance in up to ten payments. More information about the MPP is available in the Student Accounts Office. Failure to make a payment on schedule will result in the total balance becoming due immediately with a service charge of 1.5% of the outstanding balance added per month.

Important: Students who do not pay or make suitable payment arrangements for their semester bill will be placed on Business Hold and will not be allowed to attend class until payment or arrangements have been made at the Student Accounts Office. A late payment fee and/or a service charge will be charged for all past due accounts.

The College reserves the right to withhold registration materials, transcripts, diplomas and all other information regarding the record of any student who is in arrears in the payment of tuition, fees or any other amounts due the College. A student may be dismissed from the College for continued delinquency of financial obligations. Unpaid bills will be turned over to a collection agency. Collection costs and/or finance charges must be paid by the student in addition to the unpaid amount before the College can release information as described in the preceding paragraph.

BUSINESS HOLD

Students with delinquent accounts are placed on business hold and are prevented from registering for future classes and receiving information about their record until they have made satisfactory arrangements to pay their accounts. Students placed on business hold should contact the Student Accounts Office immediately to pay their remaining balance. A student may be placed on business at:

1. **Beginning of Semester** — For failure to make payment in full or to make satisfactory arrangements to pay the semester bill. Students in this category cannot obtain their room key, dining hall pass or attend classes until the Student Accounts Office approves their financial arrangements for the semester.

2. **During Semester** — For failure to make payment and/or for defaulted or late payment on terms arranged at the beginning of the semester. Students in this category cannot register for the following semester, participate in the residence hall room lottery, receive grades or transcripts and may be prevented from taking tests, attending classes or graduate. Students should contact the Student Accounts Office immediately if they have not met their financial obligation as agreed upon at the beginning of the semester.

Students will be removed from business hold only when their bill is paid or addressed in a satisfactory manner as approved by the Student Accounts Office.

IDENTIFICATION CARDS

A validated ID card shows that the student is enrolled in the current semester and that she has paid or made satisfactory arrangements to pay her semester's bill. Valid ID cards are required to use dining services, obtain residence hall room key, use library services, use computer center services, obtain parking permits and attend classes.

CHARGES TO STUDENTS

Tuition

The tuition amount remains uniform for all students in the School of Undergraduate Studies, regardless of the major or minor being pursued.

Full-Time Tuition 2004-05 Year	$19,660.00 annually	$9,830.00 per semester

A student is full-time if he/she is enrolled for twelve or more credit hours for any semester. The full-time tuition charge remains the same for all full-time students enrolled in 12 credits to 18 credits. If a student is enrolled in nineteen or more credit hours during a semester an overload charge of $420 per each credit hour over eighteen will be assessed.

Part-Time Tuition 2004-05 Year	$450 per credit hour enrolled

A student is part-time if he/she is enrolled for less than twelve credit hours for any semester.

Residential Living Charge

Chestnut Hill College offers several options for residential living. All options include a meal plan of nineteen meals per week during the academic year (excluding breaks, holidays, etc.). Prices vary by type of room and residence hall location. More information regarding the room types and residential living is available from the Dean for Student Affairs.

Double Room options w/Board Plan	$7,500 – 7,900 annually	$3,750 – 3,950 per semester
Single Room options w/Board Plan	$7,900 – 8,100 annually	$3,950 – 3,950 per semester
Triple Room options w/Board Plan	$7,600 annually	$4,050 per semester
Apartment Suite option w/Board Plan	$8,200 annually	$4,100 per semester

Students living in the Residential Halls must have a validated ID card to obtain keys and/or proximity cards. Students must pay a deposit for each key and/or proximity card.

Room Key Deposit (deposit refunded when key is returned)	$10.00 per key
Proximity Card Deposit (deposit refunded when card is returned)	$10.00 per card

Fees

Comprehensive Fee: The comprehensive fee is assessed to all students in the School of Undergraduate Studies. The fee includes the following items: accident insurance; computer center access; admissions to student activities; use of library and learning resources; career planning and placement services; campus ministry, campus health services and other services generally available to students. The comprehensive fee is charged to students enrolled on either a full-or part-time basis each semester the student is enrolled.

Full-time 2004-05 year	$720 annually	$360.00 per semester
Part-time 2004-05 year	$75 annually	$ 37.50 per semester

Course Fee: The costs involved in offering certain courses to students generate a course fee. In general, course fees are charged on a per-course-taken basis as follows:

Art Studio Courses	$ 50 to $100 per course
Montessori Practicum Internship	$200 per internship
Montessori Supply	$ 35 per course
Private Music Lessons	$300 per semester
Science Lab Courses	$ 45 per course
Challenge Exam	$ 180 per credit
Introd to Liberal Arts Seminar	$ 45 per term of seminar
Global Studies Seminar	$ 45 per term of seminar

PARKING PERMIT

All students attending classes, workshops, seminars, and special sessions are required to purchase and display a valid parking permit while parking on the campus of Chestnut Hill College. All students parking on campus are required to purchase a parking permit regardless of the number of semester hours they may be taking per semester. Each parking permit runs from September 1 through August 31 of the following year. The purchase of a parking permit does not guarantee a parking space on campus, but it does permit students to park in authorized areas on a first-come, first-served basis.

Permit Costs: Permit cost is $78 annually for the period of September 1 through August 31 and is billed automatically to the Student Account in the first semester of enrollment. Permits purchased after September will be prorated for the remainder of the year.

Students who do not park a vehicle on campus should complete and submit a Parking Permit Waiver form to the Student Accounts Office. The permit cost will be removed from the Student Account upon receipt.

Students may purchase a temporary permit, which expires seven days after the date of purchase. Each temporary permit costs $5.00.

Permits are available at the Information Desk located in the foyer of Fournier Hall. Simply provide a completed Vehicle Registration Form and show your validated ID card to obtain your permit. You will be provided with a parking brochure along with your permit sticker.

Students are responsible to be aware of and comply with all parking policies and procedures as reflected in the parking brochure. Students are responsible for any and all fines that result from parking in an unauthorized area, as defined by the parking brochure, or from not displaying or obtaining a parking permit.

The College reserves the right to withhold registration materials, transcripts, diplomas, and all other information regarding the record of any student who is in arrears in the payment of tuition, fees, or any other amounts due the College. This includes unpaid parking fines.

HEALTH INSURANCE $165 (only if not covered by another policy)

Each student is covered by an accident insurance policy through the comprehensive fee (above). Chestnut Hill College also requires that all full-time students be covered by health insurance. The College has made arrangements for a health insurance plan for all students in the School of Undergraduate Studies who do not provide proof of coverage under any health insurance policy. The College will charge each student for the cost of the Chestnut Hill College health insurance plan provided, unless the student is covered under another plan. Students must complete an insurance waiver card to avoid this charge. Insurance waiver cards are available at the Student Accounts Office.

OTHER CHARGES

Returned (NSF) Check Charge	$25 per occurrence
Late Payment Charge (automatically charged to student account if semester bill is not paid by the payment due date)	1.5% of balance
Deferred Payment Plan Enrollment Fee	$55
Late Payment for Deferred Plan	$15
Late Registration (Changes to roster after drop/add date)	$ 25 each time
New Student Application Fee$ 35 one time only	
Graduation Fee (charged in last semester, does not include cap and gown)	$150 one time only
Transcript Fee	$ 5 per transcript
Mailbox key deposit (Deposit refunded when key is returned)	$ 10 per key

ENROLLMENT and ROOM RESERVATION DEPOSITS

When accepted, all new students are required to make an enrollment deposit. The enrollment deposit reserves the new student's place for the upcoming academic year. Enrollment deposits will be refunded if the new student notifies the Admissions Office in writing by May 1st that he/she intends to withdraw from the upcoming year; after May 1st, the deposit is non-refundable. The enrollment deposit is applied to the student's account during the first semester of enrollment. Students planning to attend full-time should submit a $300 enrollment deposit. Students planning to reside in Chestnut Hill College's residence halls are required to send an additional $200 non-refundable room reservation deposit, for a total of $500. Part-time students should submit a $35 enrollment deposit.

ROOM DAMAGE DEPOSIT

Students residing in the College's residence halls are charged a $250 room damage deposit in the first semester in College housing. The deposit will be refunded, less any charges for damages to their room or residence hall common areas, when they move out of College housing. Contact the Dean of Student Affairs for more information on damage charges.

REFUND POLICY

Full-time students who officially withdraw from classes at the College (see Withdrawal Procedures in Academic Section) are eligible for refunds of tuition and room charges as indicated in the schedule below. Only the portion of the residential living charge associated with board costs is refundable. Fees, parking permit, health insurance and other charges are non-refundable after the first day of classes. Students who withdraw from the College may also have to return a portion of the Federal Financial (Title IV) Aid they received. See Return of Financial Aid Policy in the Financial Aid Section that follows. For purposes of calculating refunds, the calendar week begins as of the first scheduled class time of each session. For more information on the Refund Policy contact the Student Accounts Office at 215.248.7116.

Prior to the first day of classes	100% refund
Within the first calendar week	80% refund
Within the second calendar week	60% refund
Within the third calendar week	40% refund
Weeks thereafter	No refund

Part-time students who withdraw from an individual course after the drop/add date and full-time students who drop to part-time status by dropping or withdrawing from a course after the drop/add date will not be eligible for any refund.

FINANCIAL AID

Although the primary responsibility for meeting your college costs rests with you and your family, the Financial Aid Office can help you come up with a financial strategy that will make your degree from Chestnut Hill College affordable. The Financial Aid Office will develop a personalized financial aid package that will offer assistance with your educational expenses. Your financial aid package may consist of grants, scholarships, loans and student employment. With a combination of financial aid from federal, state, and institutional sources, we hope to help you take advantage of Chestnut Hill College's high quality academic experience.

The professional staff in the Financial Aid office is ready to assist you with the financial aid process. Please feel free to call us at 215.248.7182 or stop by the office if you have any questions or concerns regarding your financial aid. The Financial Aid

Office is located on the first floor of St. Joseph Hall. The Financial Aid Office is open to students during the following hours:

Monday	9:00 a.m. to 5:00 p.m.
Tuesday	9:00 a.m. to 7:00 p.m.
Wednesday	9:00 a.m. to 7:00 p.m.
Thursday	9:00 a.m. to 5:00 p.m.
Friday	9:00 a.m. to 4:00 p.m.

Students may also contact the office by phone from 9:00 to 5:00, Monday through Friday or by email at any time.

Office of Financial Aid 215.248.7182
finaid@chc.edu

Applying for Financial Aid

Applying for financial aid is easy at Chestnut Hill College. The process is simple, as long as you know the steps to take and the deadlines to meet. Students interested in applying for financial aid must complete the Free Application for Federal Student Aid (FAFSA) each academic year, by April 15. You can submit the FAFSA by completing a paper FAFSA, FAFSA Renewal Application or through the Internet by using FAFSA on the web (www.fafsa.ed.gov). Make sure you indicate Chestnut Hill College's federal school code (003245) on the FAFSA to ensure proper disclosure of your FAFSA information to the Financial Aid Office.

Types of Financial Aid Available at Chestnut Hill College

Grants - This is money given to a student to supplement their educational costs that does not have to be paid back. Grants are usually determined based on demonstrated financial need.

Scholarships - Another form of a grant is often referred to as a scholarship. Scholarships are usually awarded on a competitive basis and reflect academic achievement.

Loans - This is money borrowed by a student (Stafford Loan) or parent (PLUS Loan) to help pay for educational expenses. Like any other loan, it's an obligation that must be repaid with interest over a period of time.

Student Employment - The Federal College Work-Study program provides jobs for students with financial need. It allows a student to earn money to help pay for educational related expenses. The money that a student earns will be paid directly to them via a bi-weekly paycheck throughout the academic year, as it is earned. Since the Federal Work-Study Grant is an earning potential, it should not be deducted from the tuition invoice.

Sources of Financial Aid Available at Chestnut Hill College

Federal — Federal financial aid, also known as Title IV aid, includes Pell Grants, Supplemental Educational Opportunity Grants (SEOG), Federal College Work-Study, Perkins Loans, Federal Stafford Loans and Federal PLUS Loans. Students must complete a Free Application for Federal Student Aid to determine eligibility for federal financial aid.

State — Pennsylvania Higher Education Assistance Authority (PHEAA) sponsors a need based state grant program for undergraduate Pennsylvania residents who will be enrolled at least half time. No separate application is required. Pennsylvania residents who complete the FAFSA will automatically have their FAFSA information forwarded to PHEAA for determination of award eligibility. Some students from outside of Pennsylvania may receive funds from their state scholarship programs that can be used at CHC. Students living in the following states may use their state scholarship at Chestnut Hill College: Connecticut, Delaware, District of Columbia, Maine Massachusetts, New Hampshire, Ohio, Rhode Island, Vermont and West Virginia.

Private — Many private and local organizations have grants and scholarships available to students who meet certain criteria. We encourage all students to perform their own scholarship search. The library is an excellent source for information on scholarships. The Internet has also become a good place to search for additional funding to help with educational costs. Any outside scholarship that a student receives must be reported to the Financial Aid Office

Chestnut Hill College Institutional Monies

Chestnut Hill College Grant – Awarded to full-time students by the Financial Aid Officer based on demonstrated financial need, as determined by the FAFSA.

Chestnut Hill College Scholarship and Chestnut Hill College Award – Offered to students based on several factors that may include transcripts, SAT scores and extracurricular activities. The Chestnut Hill College Admissions Office administers these programs and determines recipients and award levels.

Endowed Scholarships – Thanks to the generosity of alumnae/i and other donors, Chestnut Hill College offers over thirty full and partial tuition scholarships. Each scholarship is renewable annually based on specific criteria. Following is a listing of named scholarship opportunities for incoming students.

ENDOWED SCHOLARSHIPS

- **THE REV. D.E. McDERMOTT SCHOLARSHIP**, established in 1926, provides partial tuition.
- **THE MOUNT ST. JOSEPH ACADEMY ALUMNAE MEMORIAL GRANT,** founded in 1928 by the alumnae of Mount St. Joseph Academy, provides partial tuition for up to four years and is available to a graduate of the Academy.
- **THE SISTER M. ROSE ANITA MEMORIAL SCHOLARSHIP,** founded in 1934, provides full tuition for four years and is open to graduates of John W. Hallahan Catholic Girls' High School, Philadelphia.
- **THE MURTHA P. QUINN SCHOLARSHIP,** established in 1941 through the bequest of Mr. Quinn, a member of the College's advisory council from 1924 to 1940, provides partial tuition for up to four years.
- **THE HELEN CAMPBELL MEMORIAL SCHOLARSHIP,** founded in 1943 through the bequest of Mrs. Charlotte R. Campbell in memory of her daughter, is open to Catholic graduates of the high schools of the Archdiocese of Newark (NJ). The scholarship provides partial tuition for up to four years.
- **THE COUNTESS KATHERINE E. PRICE SCHOLARSHIP,** founded in 1957 by the trustees of the Lucien B. and Katherine E. Price Foundation, is open to a graduate of Bethlehem (PA) Catholic High School and provides full tuition for up to four years to students who demonstrate financial need and superior academic ability.
- **THE CLASS OF 1944 SCHOLARSHIP,** founded in 1969 in memory of the faculty of Chestnut Hill College from 1940 to 1944, provides partial tuition for up to four years.
- **THE 50TH ANNIVERSARY CHC GOLDEN JUBILEE SCHOLARSHIP,** established in 1974, provides partial tuition for up to four years.
- **THE SUSAN H. DUNLEAVY MEMORIAL SCHOLARSHIP,** founded in 1978 by her parents, Francis J. and Albina H. Dunleavy, provides partial tuition for up to four years.
- **THE JOHN CHARLES AND KATHRYN S. REDMOND SCHOLARSHIPS,** established in 1980, provide full tuition, room, and board for up to four years to middle-income students from the mid-Atlantic region.
- **THE 60TH ANNIVERSARY CHC SCHOLARSHIPS,** established in 1984, provide partial tuition for up to four years.
- **THE CLASS OF 1936 SCHOLARSHIP,** founded in 1986, provides partial tuition for up to four years.
- **THE F. DOROTHY HEPP '47 SCHOLARSHIP**, established in 1988 by the Estate of Florence Dorothy Hepp for daughters of police or other law enforcement officers, is awarded on the basis of academic ability and demonstrated financial need. It provides full tuition for up to four years.
- **THE ST. MARY'S ACADEMY MEMORIAL SCHOLARSHIP,** established in 1988 by graduates of the academy, provides partial tuition for up to four years.
- **THE GERTRUDE CLEARY HARTNETT '39 SCHOLARSHIP,** established in 1989, provides partial tuition for up to four years.
- **THE BERNICE F. HILINSKI '44 MEMORIAL SCHOLARSHIP,** established in 1990 by her husband, Chester C. Hilinski, Esq., provides full tuition, room, and board for up to four years.
- **THE MARGARET WAY HOFFNER '50 MEMORIAL SCHOLARSHIP,** established in 1990 by her husband, E.T. Hoffner, provides full tuition for up to four years to a student from an urban environment who demonstrates financial need and superior academic ability.
- **THE SISTER PATRICK MARIE FLOOD, SSJ SCHOLARSHIP,** established in 1992 by alumnae and friends, provides partial tuition for a chemistry major for up to four years.

- **THE SISTER MATTHEW ANITA MacDONALD ’60 SCHOLARSHIP,** established in 1992 by alumnae and friends, provides full tuition for up to four years to a student majoring in the humanities and is awarded based on academic ability.
- **THE CHESTNUT HILL COLLEGE SCHOLARSHIP IN HONOR OF THE SISTERS OF ST. JOSEPH,** established in 1993 by grateful alumnae and friends, provides partial tuition for up to four years to students who demonstrate superior academic ability, leadership, and commitment to their community.
- **THE NANCY AND J. HUGH DEVLIN SCHOLARSHIPS,** established in 1994, provide full tuition, room, and board for up to four years to young women with demonstrated financial need who are members of Holy Name Parish, Camden, NJ.
- **THE GEORGE J. HARTNETT, JR. SCHOLARSHIP,** established in 1994, provides partial tuition for up to four years.
- **THE SISTER CATHERINE McDONALD, SSJ MEMORIAL SCHOLARSHIP,** established in 1995, provides partial tuition to a student in the Kirby Program. The award may be renewed.
- **THE TERESA “CHI-CHI” LUCIANO SCHOLARSHIP,** established in 1995 by her husband, John, provides full tuition for up to four years to a student with demonstrated financial need minoring in Fine Arts. Special consideration will be given to art history or art studio minors.
- **THE MARGARET LEA WEBB ’57 SCHOLARSHIP,** established in 1996 through a bequest from Miss Webb, provides a $2,500 partial-tuition scholarship for an entering first-year student who is a resident of Cape May or Mercer Counties (NJ).
- **THE SISTER ANNE WINIFRED REHMUS, SSJ SCHOLARSHIP,** established in 1997 through a bequest, provides partial tuition for up to four years to a student minoring in the Fine Arts, with special consideration given to music minors.
- **THE RITA M. TOFINI ’38 SCHOLARSHIPS,** established in 1998 through a bequest from Miss Tofini, provide partial tuition for up to four years for students planning to pursue careers in medicine.
- **THE SUSAN AND VINCENT LAMBERT MEMORIAL SCHOLARSHIP,** established in 1998 by their family, provides partial tuition for a student for up to four years. This scholarship is awarded to a student from the city of Philadelphia, PA.
- **THE MARIE C. KEEGAN ’63 MEMORIAL SCHOLARSHIP,** established in 1999 by her friends and family, provides full tuition for up to four years for a student with superior academic ability majoring in Psychology or Elementary Education. Recipients must be from Ocean or Monmouth Counties (NJ).
- **THE PAUL AND THERESE JUNGBLUT MEMORIAL SCHOLARSHIP,** established in 2000 by their daughter, Beatrice T. Jungblut Dante ’56, provides full-tuition for up to four years to a young woman with superior academic ability majoring in the natural sciences.
- **THE CLASS OF 1950 SCHOLARSHIP,** established by the class on the occasion of the 50th anniversary of their graduation from Chestnut Hill college, provides partial tuition for an academically talented student.
- **THE CAROLYN STEMMLER ’49 SCHOLARSHIPS,** established in 2000 by Miss Stemmler, provide full tuition for up to four years to students with superior academic ability and demonstrated financial need.

ENDOWED SCHOLARSHIPS FOR RETURNING STUDENTS

- **THE ALMA DEA MORANI, M.D. SCHOLARSHIP,** established in 1984, provides partial tuition for a full-time undergraduate woman who has completed her sophomore year and is enrolled for four years in a pre-medical or science major.
- **THE SISTER PAUL DANIEL OESTERLE BIOLOGY-BOTANY AWARD,** established in 1984, provides partial tuition to a first-semester senior biology major based on her cumulative grade point average and evidence of the successful completion of at least one course in botany.
- **THE SISTER EVA MARIA LYNCH SCHOLARSHIP,** established in 1986 by alumnae, friends, and family, provides partial tuition to a junior or senior biology major and may be renewed.
- **THE EMMA PUKAS ’88 MEMORIAL SCHOLARSHIP**, established in 1991 by friends and family, provides partial tuition for a junior or senior majoring in biology, biochemistry, chemistry, or molecular biology.

- **THE W.W. SMITH CHARITABLE TRUST SCHOLARSHIPS,** provide partial tuition and are open annually to full-time students who meet College-defined need and academic merit guidelines. Availability depends on funding from the Trust.
- **THE DR. JACQUELINE MAIORELLO MAURO '50 GRANT,** established in 1976, provides financial assistance with first-year medical school expenses and is open to a full-time senior who has been accepted by a medical college.
- **THE DR. JOSEPH and SARA DONNELLY MEMORIAL SCHOLARSHIP,** established in 2000 by their daughter, Sally Donnelly, provides partial tuition to a junior or senior majoring in science and planning to pursue a health-related career. Preferences for awarding this scholarship will be given first, to a graduate of Mount St. Joseph Academy, Flourtown, PA; or second, to a graduate of a Philadelphia Archdiocesan High School.

RETURN OF UNEARNED FEDERAL FINANCIAL AID (TITLE IV REFUND)

A student who received federal Title IV financial aid, as defined previously, and who withdraws from all classes at Chestnut Hill College, will be required to return some or all of the federal Title IV funds. The amount of federal financial aid to be returned will be the largest amount as determined by using the Federal Refund Policy (except for first-time students who use the Pro-Rata Refund Policy which follows), which is calculated by dividing the total Title IV funds (less work-study earnings) by the student's total aid package and applying this fraction to the Chestnut Hill College refund. The resulting amount is the amount of funds to be returned to the Title IV programs. The Pro Rata Refund Policy is used only for the first-time students withdrawing before 60% of the term is completed. Charges are pro-rated depending on the student's date of withdrawal.

Returning money to the Title IV programs will be made in the following order: 1) Federal Unsubsidized Stafford Loan, 2) Federal Subsidized Stafford Loan, 3) Federal PLUS Loan, 4) Federal Perkins Loan, 5) Federal Pell Grant, 6) Federal SEOG, 7) Other Title IV programs, 8) Other federal sources of aid, 9) Other state, private or institutional aid, and 10) the student.

ACADEMIC PROGRESS POLICY FOR CONTINUATION OF FINANCIAL AID

To be eligible for Federal and Institutional financial aid, a student must make satisfactory academic progress each year. This means that a student must complete a certain number of credits each year and maintain a minimum cumulative Grade Point Average (GPA) after completing a total of 30 college credits. This policy ensures the student's intention of completing her program of study and moving toward the goal of graduation.

Standards of Academic Progress

In order to continue to receive Federal and Institutional financial aid, all students must successfully complete 66% of all credits attempted. In addition, all students are required to maintain a minimum cumulative GPA. See chart below:

CREDITS EARNED	REQUIRED CULULATIVE GPA
30-59	1.75
60 AND UP	2.00

Maximum Time Frame

The maximum time frame for completion of undergraduate programs cannot exceed 150% of the published program length for a full-time student. For undergraduate students, the minimum credits needed for graduation is 120. Therefore, a student would have a maximum time frame of 180 attempted credits to complete the program before the student would lose eligibility for financial aid.

Measurement of Progress

Academic progress for each student will be measured at the end of each academic year. If a student does not meet the satisfactory standards of academic progress, she will be notified in writing regarding the cancellation of financial aid funding.

Appeals

Appeals may be based on extenuating circumstances. The student must be able to demonstrate that the extenuating circumstance had a direct impact on the student's academic performance. The student must put the request in writing and submit it to the Director of Financial Aid. The student may be asked to provide supporting documentation of the situation.

If an appeal is approved, an academic waiver will be granted. This will allow the student's financial aid to be reinstated for one academic year only (except the PHEAA state grant). The student must comply with any and all conditions attached to the waiver of the academic policy.

Standards of Academic Progress for the PHEAA State Grant program

Pennsylvania Higher Education Assistance Authority (PHEAA) requires recipients of the PHEAA state grant to complete a minimum of 24 credits for every two semesters of full-time grant assistance received or a minimum of 12 credits for every two semesters of half-time grant assistance received. No academic waivers will be granted for the PHEAA state grant program by Chestnut Hill College. A student may appeal directly to PHEAA concerning extenuating circumstances.

ACADEMIC PROGRAM

Chestnut Hill College confers the degrees of Associate of Arts, Bachelor of Arts and Bachelor of Science. Degrees are awarded to students who satisfactorily complete all requirements of the curriculum. As a liberal arts college, Chestnut Hill College offers a curriculum that encourages individual responsibility within a flexible framework. The courses of study provide the student with a broad background in the fine arts and humanities, a knowledge of science, a keen awareness of today's social issues, and an in-depth study in a major as well as opportunities for study in a minor field. Generally, students are expected to complete eight full semesters during which time they have the opportunity to participate fully in the academic and social life of the College.

CORE CURRICULUM

Chestnut Hill College's Core Curriculum, approved by faculty in 1999, is designed to provide students with a meaningful education that is rooted in Chestnut Hill College's Mission. Steeped in the liberal arts, the curriculum recognizes the impact of the information-age revolution, and addresses career demands of the twenty-first century. The Core Curriculum consists of fundamental requirements, *Ways of Knowing* perspectives, proficiencies, and free electives. In addition, students will fulfill all of the requirements that are specified in a major program of study.

Learning Strategies

The Learning Strategies course (LS 100) is a one-semester, three-credit course designed to meet a variety of reading and study skills needs, specifically the need to read and understand college level materials effectively. This course is required of any student who scores below predetermined levels on a standardized reading placement exam. The course is evaluated by a pre-test/post-test assessment using a standardized test and a course-specific assessment. Credits apply to students' Financial Aid and GPA, but NOT towards the 120 credits for graduation.

Fundamental Requirements (18 credits)

All students must complete the following:

- **Core seminars:** These seminars are interdisciplinary and provide opportunities for experiential learning.

  ILA 101— Introduction to the Liberal Arts – usually taken in first year
  This course serves both as a second-level writing course and as an introduction to various disciplines within the Liberal Arts. The course helps students to develop the skills introduced in the first-level writing course, with a focus on research and the techniques associated with academic writing. While the course is offered in sections with unique emphases, the general writing requirements are universal, as is the grading policy. ILA 101 also takes advantage of our location in Philadelphia by using museums and other sites in the city as part of the overall course experience. Students are expected to make at least two (2) site visits during the semester. *ILA does not fulfill the writing intensive requirement.*

  GS 201—Global Awareness Seminar – taken after the first year
  This course explores the economic, political, social, environmental, and cultural roots of global conflicts, the potential risk of catastrophic confrontations, and the potential of peaceful resolutions. Topics in this course vary depending on the expertise of the teaching faculty and the world situation. Students read world press and literature, are introduced to global theorists and scholars, and communicate with other students and organizations through global communications available through emerging technologies. Some experiential learning may be incorporated in the course such as a visit to the United Nations.

- **Writing—English 101, 105 or ISP 300**
  One course designated as Writing Intensive; this course may also fulfill a *Ways of Knowing*, the major, a minor, or a free elective

- **Religious Studies (two courses) – one at 100 level followed by one at 200 level**

- **Foreign Language (one course minimum and proficiency OR two courses at intermediate level)**

WAYS OF KNOWING

Focused on six perspectives (Historical, Literary, Artistic, Scientific, Behavioral, and Problem-Solving and Analysis), the *Ways of Knowing* component of the Core Curriculum is designed to introduce students to different learning methodologies and strategies.

- A student may fulfill one *Ways of Knowing* category by virtue of Major course work. This applies whether the *Ways of Knowing* requirement is 1 or 2 courses.
- A student may use no more than two courses with the same course prefix to fulfill additional *Ways of Knowing* perspectives.

Historical Perspectives

Courses in this category will evoke an awareness of the development of human societies, examining their political, social, economic, and cultural evolution through the ages. (two courses)

Literary Perspectives

Courses in this category may cover any of the literary genres and periods and teach students to perform literary/critical analysis of primary texts. (one course).

Artistic Perspectives

Courses in this category will enable students to become aware of, experience, develop, analyze and/or interpret the products of the human imagination in the fine arts. (one course)

Scientific Perspectives

Courses in this category will examine how scientific knowledge is obtained as well as the implications and applications of that knowledge. Emphasis is on how scientists perceive and attempt to understand the natural world. The science requirement is fulfilled by a minimum of seven credits in courses that must have laboratory experience. (two courses)

Behavioral Perspectives

Courses in this category will provide students with an understanding of the psychological, sociological, economic, political and cultural dimensions of human behavior. (two courses)

Problem-Solving/Analytical

Courses in this category will focus primarily on developing skills in systematic analysis. Courses will provide students with the basic ability to reason with conceptual and/or quantitative data to assess the basic conceptual and/or statistical aspects of an argument. (one course)

PROFICIENCIES

Students are required to demonstrate established proficiency levels in computer literacy (approved Spring 2002), foreign language (approved Fall 2000), oral communication (in process), and mathematics (approved Fall 2000).

Students who do not demonstrate proficiency in one or more of these areas will be required to follow a specified program until the proficiency level is achieved. Courses numbered lower than 100 which fulfill a proficiency will not apply to the credits required for graduation.

Free Electives

Free electives are those courses that are not used to fulfill any major or other Core Curriculum requirements. Free electives provide the student with a degree of flexibility in the curriculum. They may be used to pursue personal interests or a minor. The number of credits available for free electives is dependent upon the number of credits that are required by the major, the *Ways of Knowing* courses and the fundamental requirements.

COLEX and Physical Education

Successful participation in the COLEX program (1 credit), two semesters of Physical Education (2 credits), and a passing grade in a swim test are required for graduation for all students in the School of Undergraduate Studies. These credits are not included in the 120 credits required for graduation.

MAJOR STUDIES

An Associate of Arts degree (A.A.) may be obtained in the following majors:

- Accounting
- Business Administration
- Biology
- Chemistry
- Criminal Justice
- French
- Psychology
- Spanish

A Bachelor of Arts degree (B.A.) may be obtained in the following majors:

- English
- English and Communications
- French
- History
- Political Science
- Psychology
- Spanish

A Bachelor of Science degree (B.S.) may be obtained in the following majors:

- Accounting
- Biochemistry
- Biology
- Business Administration
- Chemistry
- Computer and Information Sciences
- Computer and Information Technology
- Communications and Technology
- Criminal Justice
- Environmental Sciences
- Education:
  - Early Childhood and Elementary
  - Early Childhood
  - Elementary
- Human Services
- International Business, Language and Culture
- Marketing
- Mathematical and Computer Sciences
- Molecular Biology
- Sociology

Double Major — Students are permitted to major in two disciplines if they maintain a cumulative GPA of 3.20 or better. Students who major in two disciplines need to fulfill the requirements of each department. General requirements need to be completed only once. To double major, the student needs the permission of the chairs of both departments and must submit a proposal to the Associate Dean for Academic Advising for final approval. Forms for the double major may be obtained from the Associate Dean for Academic Advising.

Individualized Major – A student who desires an individualized major designs a program combining at least 2 disciplines, at least one of which is an existing major. An individualized major is not a double major. In consultation with the faculty advisor and with the support of the involved department chairs, the student prepares a program and submits it to the Dean of the School of Undergraduate Studies for approval. Criteria for acceptance include the coherence of the program, its rationale and the rigor of its curriculum.

- Application should be made by the second semester of the sophomore year or upon completion of 45 credit hours.
- The student must find an academic advisor. With the support of the involved department chairs, the student and the advisor will develop a plan of study to be approved by the Dean of the School of Undergraduate Studies. Application forms will be available in the Office of the Associate Dean for Academic Advising.
- In order to be eligible the student must have and maintain a cumulative GPA of 3.2.
- Requirements for the individualized major will include a minimum of 12 courses relevant to the area of study, with no more than 25% at the 100 level. This will include a Senior Seminar supervised by a department with an existing major determined by the student's advisor and approved by the Dean of the School of Undergraduate Studies.
- Title of the major will be determined in consultation with the Dean of the School of Undergraduate Studies and the student's advisor.

MINOR STUDIES — 18 credits or 6 courses

Students who wish to pursue a minor in any discipline must obtain a form from the Associate Dean for Academic Advising. This form should be taken to the chair of the department in which the student wishes to minor. Minor studies can be pursued in:

- Art History
- Art Studio
- Business Administration
- Foreign Language
- French
- Global Economics

Biology
Molecular Biology
Mathematics
Environmental Science
Biochemistry
Chemistry
Communications and Technology
Computer Science/Information Management
Computer and Information Technology
Criminal Justice
English
Latin
Spanish
History
Human Services
Music
Political Science
Psychology
Religious Studies
Secondary Education
Special Education
Sociology

In addition to departmental minors, **Interdisciplinary Minors** are available in the following areas of study. See Interdisciplinary Minors, page 89. Contact the Associate Dean for Academic Advising for complete information.

- Peace and Justice – (see page 89 for details)
- Women's Studies – (see page 89 for details)
- Gerontology (see page 89 for details)

SPECIAL PROGRAMS

- **Certificate Programs**
  PA State Certification (see page 61 for details)
  Montessori Specialization (see page 62 for details)
  International Studies Certificate (see page 82 for details)
  Religious Studies Certificate (see page 116 for details)

- **Experiential Education**
  The Experiential Education Program at Chestnut Hill College is located in Career Services. The program is monitored by the Coordinator of Experiential Education. This program provides undergraduate students an opportunity to earn academic credit while gaining on-site practical experiences through either an internship or cooperative education. In this way they are able to evaluate their interest and aptitude in a field before making a commitment. Each Experiential Education experience earns 3 credits; a maximum of 6 credits is applicable to the degree. All Experiential Education experiences are recorded as pass/fail except in cases where departments require more than a work experience and wish to award a letter grade. In order to qualify for the program, the student must have completed 60 credits (at least one semester or 12 credits at Chestnut Hill College for transfer students), must be in satisfactory standing (a GPA of 2.5 in the major and 2.0 overall), have departmental approval, and meet the requirements of the employing organization. Students must apply to the coordinator of Experiential Education one semester prior to the anticipated experience and register for the experience during the registration period preceding the designated semester.

- **Cooperative Education** The School of Undergraduate Studies' Cooperative Education Program enables students to explore the practical applications of their major area of study by working in salaried jobs in business, industry, or government. It is a full-time paid work experience, usually for 35-40 hours per week over a four to six month period. Usually no more than one additional three-credit course is taken while participating in Cooperative Education.

- **Internships** An internship is a supervised work learning experience that takes place outside the classroom and preferably at an off-campus site. The intern commits to a minimum of 96 hours per semester. The internship may be a part of a full or part-time course load. It may be paid or volunteer. Internships are offered in both major and minor fields of study.

- **Study Abroad** A GPA of 3.00 and approval of the Dean of the School of Undergraduate Studies allow an upper-class student to pursue organized study in a foreign country. The student's major department must approve the course of study. In recent years, Chestnut Hill College students have studied in London, Paris, Rome, Madrid, Vienna, Salzburg, Dublin, Costa Rica, Guatemala, Nicaragua, and Mexico. (See **Regent's College, London,** under **COOPERATIVE PROGRAMS** on page 27 and **Sorbonne, Paris** on page 75.

The Foreign Language, English, Education and Art Departments also sponsor intersessions abroad during semester break. Students can earn two or three credits through these intersessions.

For more information about study abroad, contact the Associate Dean for Academic Advising.

DUAL-DEGREE PROGRAMS

- The **College of Health Professions of Thomas Jefferson University** cooperates with Chestnut Hill College in offering a dual-degree program leading to the Bachelor of Science in Biology or Chemistry and the Bachelor of Science in Medical Technology, Biotechnology, Cytotechnology, or Cytogenetic Technology. After four to six semesters at Chestnut Hill, students who meet established criteria will be admitted to upper division courses in the College of Health Professions at Thomas Jefferson University. The program may require summer study in addition to regular sessions. The College of Health Professions also offers a 12 month Post-baccalaureate Certificate Program for students who wish to complete their undergraduate degree in biology or chemistry entirely at Chestnut Hill College.

- The **College of Podiatric Medicine of Temple University** and Chestnut Hill College cooperate in providing a joint undergraduate professional program leading to the Bachelor of Science in Biology or Chemistry and to the degree of Doctor of Podiatric Medicine. After completion of 90 undergraduate credits at Chestnut Hill College, students who meet the criteria will be admitted to Temple University's College of Podiatric Medicine. This program requires summer study in addition to the regular sessions.

COOPERATIVE PROGRAMS

- The cooperative agreement with **LaSalle University** enables full-time undergraduate students to take courses at LaSalle during the Fall and Spring semesters at no extra charge. Students receive full credit for these courses which are included in the grade-point average. Students need the permission of their academic adviser to take courses at LaSalle University and should register for these courses through the Chestnut Hill College Registrar. The Registrar's office maintains a listing of current LaSalle University course offerings.

- **The Sisters of St. Joseph Association of Colleges Student Exchange Program** offers Chestnut Hill College students the opportunity to enrich their educational experience by studying for a semester or a year at one of seven other colleges founded and/or operated by the Sisters of St. Joseph: Avila College (Kansas City, MO); Elms College (Chicopee, MA); Fontbonne College (St. Louis, MO); Mount St. Mary's College (Los Angeles, CA); Regis College (Weston, MA); The College of St. Catherine (St. Paul, MN); and The College of St. Rose (Albany, NY).

- **Southeastern Pennsylvania Consortium for Higher Education (SEPCHE)**
  Cross Registration
  Chestnut Hill College full-time undergraduate matriculated student, paying full-time tuition may register for up to two undergraduate courses a year at any other SEPCHE member institution. The Southeastern Pennsylvania Consortium for Higher Education (SEPCHE) includes Arcadia University, Cabrini College, Chestnut Hill College, Gwynedd-Mercy College, Holy Family University, Immaculata University, Neumann College, and Rosemont College.

  The Cross Registration program is designed to provide increased educational opportunities for students of any member institution. Through this program, students have the option to take courses that are not being offered at their home campus and to experience the varied and diverse resources on member campuses across the Delaware Valley.

  Students must have completed at least one year as a full-time student at their home campus before taking courses through the Cross Registration program. Courses may not be taken at a member institution if that course or its equivalent is offered at the home institution in the same semester. No tuition or fees will be charged by the host institution, except for special or extra fees that are part of the courses taken, such as LAB FEES. The Cross registration functions only in fall and spring semesters, and does not apply to accelerated or weekend courses, independent study, study abroad, tutorials. Internships, practicum field experience, student teaching, private music lessons, or per credit hour or graduate students.

- Chestnut Hill College has an affiliation agreement with **Regent's College, London** that provides students with an opportunity to study for a semester or summer session in London. In addition, Chestnut Hill College has the opportunity to offer short courses at Regent's throughout the year. Information is available in the Office of the Associate Dean for Academic Advising.

  To be eligible students must have completed at least 24 credits and must have a minimum GPA of 2.50. Deadlines for application are November 15 for the Spring semester and April 15 for the Fall semester. Information is available in the Office of the Associate Dean for Academic Advising.

HONORS

General Honors. Students graduate with honors if their final cumulative GPA is: 3.60, *cum laude;* 3.75, *magna cum laude;* 3.90, *summa cum laude.* The final average and corresponding honors are recorded on the student's transcript.

Honor Societies.

- *Delta Epsilon Sigma,* the national scholastic honor society for students of Catholic colleges and universities, established its *Alpha Upsilon* Chapter at Chestnut Hill in 1941. Eligibility for election to membership is limited to students with a cumulative grade point average of 3.60 who have earned fifty percent of the credits necessary for graduation.
- *Kappa Gamma Pi* is the national Catholic college graduate honor society. Membership, which is limited to no more than 10 percent of the graduating class, is based on scholarship, leadership and service. Members are selected in recognition of past accomplishments and also in anticipation of future service.
- *Alpha Lambda Delta* is a national honor society that honors high scholastic achievement during the first year in college. The Chestnut Hill chapter of this society received national affiliation in 1993. Students with a GPA of 3.50 at the end of their first year are eligible for election.
- *Psi Chi,* the national honor society in Psychology, is an affiliate of both the American Psychological Association and the American Psychological Society. Membership in the local chapter requires a major or minor in Psychology, a ranking in the top 35% of the class, a cumulative GPA of 3.2, a Psychology GPA of 3.5, Junior standing, and the completion of four or more Psychology courses.
- *Phi Alpha Theta,* the international honor society in History, requires a GPA of 3.0 and a 3.1 average in History. Both majors and minors are eligible for nomination into the society upon completion of twelve credit hours of course work in History.
- *Kappa Delta Epsilon* is an honorary professional society, the purpose of which is to promote the cause of Education by fostering a spirit of fellowship, high standards of scholastic attainment, and professional ideals among its members.
- *Alpha Sigma Lambda* This National Honor Society recognizes adult students in higher education who have achieved academic excellence and leadership while fulfilling the many responsibilities of family, work and community services. In 1987, Chestnut Hill College received approval to establish a chapter *(Epsilon Sigma)*. Potential inductees must be matriculated in Chestnut Hill College's School of Continuing Studies ACCELERATED Program or as Kirby students in the School of Undergraduate Studies and have a minimum of thirty graded semester hours. Members shall be selected only from the highest ten percent of the population and have a minimum GPA of 3.60 on a 4.00 scale.
- *The Alpha Lambda Adult Education Foundation* The ASL foundation, created in 1983, is devoted to the advancement of scholarship. Applicants must be 24 years of age or older, be matriculating in a degree program and must have at least a 3.60 GPA on a 4.00 scale with thirty or more semester hours completed.

Dean's List

The Dean's List for full-time students (those taking a minimum of 12 credits that earn quality points) is published twice each academic year, following the Fall and Spring semesters. A GPA of 3.60 is required. The Dean's List for part-time students is published once every September. To be eligible, part-time students must have completed a minimum of twelve credit hours during the preceding 12 months. The general average for the twelve months must be 3.60.

Departmental Honors

Sophomores of high scholastic standing (a cumulative average of 3.50 or higher) are invited by their major department to stand for Honors in their junior and senior years. The Departmental Honors program provides an opportunity for independent study and research culminating in an Honors thesis submitted in the spring of senior year. (The beginning and completion of the Honors thesis for part-time students are determined on an individual basis.) All students who have successfully completed the Honors Program will be recognized with Honors in their major field at the annual Honors Convocation.

Interdisciplinary Scholars Program

The program offers team-taught interdisciplinary seminars that promote liberal education by stressing interconnections among different fields of study and by challenging students and faculty alike to teach and to learn. Qualified and interested students may apply for the complete Interdisciplinary Scholars Program or for a single Scholars seminar; preference is given to students pursuing the complete program. (see page 91 for details).

GRADING SYSTEM

A	Superior	Superior mastery of subject matter, with evidence of independence and originality of thought
B	Good	Above average mastery of subject matter
C	Satisfactory	Acceptable mastery of subject matter
D	Low Passing	Limited mastery of subject matter
F	Failure	Deficiency in subject matter
I	Incomplete	Given only for serious reasons and with permission of the Dean of the School of Undergraduate Studies. Students must complete coursework within six weeks following the last examination of the semester.
W	Withdrawal	Given when students withdraw from course within the approved time period.
WF	Withdrawal Failure	Given when students withdraw after the approved time period.

- **Plus and minus grades are also given.**
- **A grade lower than "D+" in discipline-specific courses required for a major does not fulfill graduation requirements.**

INCOMPLETE GRADE POLICY

A student may request a grade of incomplete ("I") from the professor of a given course. However, Incomplete grades are discouraged and **are granted for serious reasons only** (e.g. sickness requiring medical intervention and care, a death in the family, unexpected and unavoidable circumstances which preclude the completion of work on time). The granting of an "I" is left to the discretion of the professor in consultation with the Department Chair and the Associate Dean of Academic Advising. The following procedure must be observed:

1. The student approaches the professor to discuss the reasons for the request. Reasons for such a request must be serious and/or unforeseen, and cannot be remedied in another way within the time frame of the semester. **Requests should normally be made prior to the last week of classes.** Requests made after the last class or final exam will not be accepted or approved.

2. If the professor discerns that the reason(s) for the request is reasonable and justified, the professor and student discuss the requirements for the completion of the course including a time-line for the submission of required materials/assignments. The time-line must not exceed beyond **6 weeks after the final exam.**

3. All Incomplete grades must be finalized before a student can participate in a course which is a continuation of the course for which the student has requested the Incomplete or which has as a prerequisite the course for which the student has requested the Incomplete.

4. The student then obtains a "Course Incomplete" Form from the Associate Dean for Academic Advising. The student completes the form and then presents it to the professor for review and for his/her signature. After the professor signs the form the student then takes the form to the Department Chair for his/her signature and then returns the form to the Associate Dean for Academic Advising.

5. The Associate Dean for Academic Advising will sign the form, retain a copy and then return copies to the following individuals: 1) the faculty member; 2) the Department Chair; 3) the student requesting the Incomplete.

6. The Associate Dean will then inform the Registrar of the confirmation of the Incomplete grade.

7. The student assumes full responsibility to make sure that all the requirements are fulfilled and submitted to the professor in a timely manner. If the work is not completed and submitted at the end of the work day (4:30 p.m.) designated by the professor, then the student will automatically receive a grade of "F".

8. Ordinarily the maximum time frame for completion of incomplete work is 6 weeks after the final exam. The time line cannot be extended once it is agreed to and submitted to the Associate Dean for Academic Advising. For exceptional circumstances that are fully documented the deadline may be extended with written approval of the Dean of the School of Undergraduate Studies. To obtain this special approval the student must submit the reasons for the extension in writing to the Dean after having received approval from the Professor for the extension.

9. The professor will grade all the material and submit the grade to the Registrar three weeks into the Fall semester for Summer semester incomplete grades, three weeks into the Spring semester for Fall semester incomplete grades and at the end of the Summer II semester for Spring semester incomplete grades.

SCHOLASTIC STANDING

Determined by averaging the grades the student has received.

A	=	4 points	C+	=	2.3
A-	=	3.7	C	=	2.0
B+	=	3.3	C-	=	1.7
B	=	3.0	D+	=	1.3
B-	=	2.7	D	=	1.0

In order to graduate from Chestnut Hill College a student must have a minimum, cumulative GPA of 2.0. Certain majors may require a higher minimum cumulative GPA.

ACADEMIC WARNING

An Academic Warning serves as a caution to the student that she/he is in danger of not attaining the necessary cumulative GPA average (2.0) to graduate from Chestnut Hill College. The student may be placed on Academic Warning if his/her cumulative GPA falls below:

- 1.75 prior to the completion of 30 credit hours
- 2.00 prior to the completion of 60 credit hours

ACADEMIC PROBATION

A student is automatically placed on academic probation if his/her cumulative GPA falls below:

- 1.75 at the completion of 30 credit hours
- 2.00 at the completion of 60 credit hours

A Student who falls below the required GPA are also in danger of losing his/her financial aid. Refer to page 21 in Financial Services.

ACADEMIC DISMISSAL

The student is expected to raise his/her level of performance after one semester of Academic Probation. The student placed on academic probation for a maximum of two consecutive semesters who fails to demonstrate the ability to achieve the minimum, cumulative GPA (2.0) will be dismissed from Chestnut Hill College.

GRADE APPEAL POLICY

A student who wishes to appeal a grade should proceed in the following steps. Keep a written record of the relevant dates.

NOTE: In cases where the appeal decision will determine whether or not the student may register for the next sequential course, the process may be expedited appropriately. In such cases, the student should arrange the schedule of deadlines with the appropriate Dean at the time of initiating the appeal.

(1) The student should contact the instructor within thirty days (School of Undergraduate Studies and School of Graduate Studies) or ten days (School of Continuing Studies/ACCELERATED) after receiving the official grade report.

(2) The student is encouraged to try to resolve the issue through conversation with the instructor who has given the grade.

(3) If the issue cannot be resolved by conversation, the student may submit a written appeal to the instructor, along with any relevant materials (papers, tests, assignments, etc.), within ten days (School of Undergraduate Studies and School of Graduate Studies) or five days (School of Continuing Studies/ACCELERATED).

The instructor should respond within one week of receiving the request with a written statement to the student detailing the reasons for the grade.

(4) If the issue remains unresolved by the consultation with the instructor, the student may, within ten days (School of Undergraduate Studies and School of Graduate Studies) or five days (School of Continuing Studies/ACCELERATED) of receiving the instructor's written response, appeal in writing to the chair of the appropriate department, stating the reasons for the disagreement and presenting evidence in support of the appeal.

The chair will respond in writing within two weeks of receiving the written appeal. If the written appeal is received by the chair between June 1 and the beginning of the Fall semester, this deadline is postponed to September 15.

(5) If the issue remains unresolved by the response of the chair, the student may, within ten days (School of Undergraduate Studies and School of Graduate Studies) or five days (School of Continuing Studies/ACCELERATED) of receiving the chair's response, appeal in writing to the appropriate Dean.

The Dean will form an *ad hoc* committee to review the issue. This committee will consist of the Dean and three faculty members chosen in the best interest of the matter at hand. The *ad hoc* committee will convene as soon as possible. The appropriate Dean will forward all relevant materials to the *ad hoc* committee in sufficient time for them to be reviewed prior to the meeting. The student and the instructor will present their arguments before the *ad hoc* committee in one another's presence and will both answer questions from the committee. The committee will then review the evidence in private and reach a decision.

The committee will immediately communicate its decision to the appropriate Dean, who will notify the student of this final decision in writing.

CREDIT LOAD

A student enrolled for 12 or more credits is a full-time student. A normal credit load is 15 credits. To enroll for more than 17 hours in a semester, the student must have a minimum GPA of 3.2 for the most recent full-time semester completed. In cases where the demands of a department's schedule requires a student to enroll for more than 17 hours, an exception to the minimum GPA of 3.2 may be made. Please note that such an exception requires the permission of both the advisor and the Associate Dean for Academic Advising. Additional tuition, at the current per credit rate, will be charged for academic credits beyond 18.

A student on academic probation may not carry more than four courses or 13 academic credits.

CLASSIFICATION OF STUDENTS

Class level is determined by the number of credit hours earned by the student. For sophomore status, a student must have completed 24 credits; for junior status, 54; for senior status, 84.

TRANSFER CREDITS

- Transfer students must complete at least 45 credits at Chestnut Hill College in order to receive the College's degree.
- A maximum of 15 of the 45 credits may be earned through Advanced Placement, Challenge Examinations, or CLEP.
- Ordinarily, students are required to take their last year (senior year) of course work at Chestnut Hill College; transfer credits are not accepted from community or two-year colleges once a student has achieved senior status (84 credits).
- Under ordinary circumstances, matriculating students are not permitted to take courses in the major field at other institutions. Exceptions are permitted for study abroad and for attendance at SSJ/CSJ Consortium Schools.
- Transfer credits, other than those earned at LaSalle University, may not be earned during the Fall and Spring semesters. Students who wish to take courses at other colleges or universities during the summer, and who wish to transfer credits, must have the courses approved by their academic advisor and the Dean of the School of Undergraduate Studies or the Associate Dean for Academic advising. Transfer credit approval forms are available from the Associate Dean for Academic Advising. Upon completion of the course(s), an official transcript should be sent to the Registrar of Chestnut Hill College.
- Although transfer credits are added to the total number of credits earned, they are not included in the student's cumulative GPA unless they are earned at LaSalle University during the spring and fall semesters only.
- Credits earned while studying abroad are not included in the cumulative GPA except as part of an official program sponsored by the College. Transfer credits will be awarded for those courses in which a grade of "C" or better has been earned.

PASS/FAIL

After the first year, student may take electives (up to three credits per semester) on a pass/fail basis. The total number may not exceed 18 credits. Credits earned pass/fail count toward the 120 credits required for graduation, but are not calculated as part of the cumulative grade point-average.

AUDIT

Students with senior status may audit a course if enrollment permits.

Alternate Assessment Formats

There are several alternate ways by which matriculated, full-time students may earn credit for courses at Chestnut Hill College; namely, through challenge examinations and portfolio assessment. Application for each of these experiences must be made through the Office of the Associate Dean for Academic Advisement and approved by the Dean of the School of Undergraduate Studies, after consultation with the department involved. The deadline for such application is the same as the deadline for dropping or adding courses. An evaluation equivalent to a "B" is required for credit to be given for these alternative methods of assessment. A non-refundable fee equal to one-third the cost of the course is payable upon application.

1. Challenge Examinations
   A matriculated, full-time student who, by virtue of academic or professional background, can demonstrate mastery of certain courses without formal enrollment in such courses, may choose to challenge the course and obtain academic credit. A student may challenge up to 12 credits, but may not challenge a course previously failed. All challenge examinations must be completed prior to registration for the final fifteen credits required for the degree.
2. Portfolio Assessment
   A matriculated, full-time student may present, in a portfolio, a compilation of data organized in an approved format to demonstrate college-level knowledge sufficient to be awarded credit for a course in the current college catalog. A complete description of the process involved in proposing, fulfilling, and submitting a portfolio may be obtained in the Office of the Associate Dean for Academic Advising.

CLASS ATTENDANCE

There is a relationship between the academic success of the student and his/her class attendance. The School of Undergraduate Studies expects its students to accept their responsibility to attend class regularly and promptly. An instructor may lower a student's grade because of absences from class. It is the responsibility of the instructor to set forth in writing at the beginning of a course any special conditions regarding absence in the course. A student who finds it necessary to be absent from class should, if possible, inform the instructor in advance of the absence. If absences occur, it is the student's responsibility to make up whatever work has been missed. Permission to make up laboratory assignments, studios, quizzes, and examinations may be granted at the discretion of the instructor. When an instructor determines that a student's progress is being seriously impeded by excessive absences from class or by other difficulties, the instructor will refer the student to the Associate Dean for Academic Advising.

First-Year Students

To reinforce the importance of regular class attendance, and in the interest of maximizing success for students as they begin their college experience, first-year students are limited to as many absences as the class meets per week (one 3 hour class, two 75 minute classes, or three 50 minute classes). Faculty have the right to reduce the number of excused absences at their discretion and this will be written into their syllabi. A first-year student who does not adhere to this policy will be referred to the Associate Dean for Academic Advising. Excessive absences may result in a reduced grade or failure in the course.

ATHLETIC ATTENDANCE POLICY

Recognizing the importance of regular class attendance and the contribution made by the student athletes, a special attendance policy has been established for student athletes. The Athletic Department will do everything possible to minimize a conflict with scheduled games and class times and the student should seek to schedule classes so there is minimal overlap with practice and scheduled games. When conflicts occur despite these efforts, the student who officially represents Chestnut Hill College in intercollegiate athletics may be excused from class for participation in athletic contests. A student athlete, in making the decision to miss class for a scheduled game, does so knowing that what is lost from the classroom experience cannot be retrieved, nor is it the responsibility of the professor to inform the student concerning that which transpired. The student, however, should not be penalized for the absence beyond the lost classroom experience. These excused absences apply only to officially scheduled games and not to practice sessions. A student athlete may be excused from classes that conflict with scheduled contests under the following conditions:

1. The student is currently maintaining a cumulative GPA of 2.0 or above.
2. The student has demonstrated regular attendance outside of athletic events.
3. The student is accountable for all work missed and is responsible for obtaining all lecture notes, handouts, and assignments from another student in the class. The student is also responsible to make arrangements with faculty regarding missed tests, exams, presentations, etc.

4. If the student needs additional help with the work, she/he must obtain a tutor and be willing to commit a certain number of hours to tutoring. Tutors can be paid for their services by informing the Director of Academic Support Services and by abiding by the stipulations set forth in the Tutoring Handbook.
5. The student submits to each professor, during the first two weeks of classes, an Intercollegiate Athletic Release Form which informs his/her professor when she/he expects to be absent, arrive late or leave early for each class for each semester.
6. If a game is canceled or rescheduled during the semester the professor must be informed, in writing, immediately if the scheduled game conflicts with class time.
7. A student athlete may miss a maximum of 2 weeks of classes according to the following schedule:

Evening Classes (meeting once a week)	2 classes
75 Minute Day Classes (meeting twice a week)	4 classes
50 Minute Day Classes (meeting three times a week)	6 classes

This agreement can be revoked under the following conditions:

- In the judgement of the professor the student's class performance and academic progress is being seriously jeopardized.
- If a student receives a grade of "F" in any course or is placed on Academic Probation, the excused attendance policy is forfeited for the following semester.

Exceptions to the above policy may have to be made during tournament games.

SNOW CLOSING

Should weather or other circumstances force the cancellation of classes, an announcement will be made on KYW News Radio (AM 1060). The School of Undergraduate Studies snow number is 126 for day classes and 2126 for evening classes (beginning at 4:00 PM).

ACADEMIC ADVISING

Each student is assigned an academic advisor who must approve the student's program of study. The advisor must approve all changes to be processed through the Registrar's Office.

CLASS CANCELLATIONS AND RESTRICTIONS

The School of Undergraduate Studies reserves the right to cancel a class with insufficient enrollment and to restrict certain courses to special populations. A full-time, first-year student may not register for evening courses without the permission of his/her advisor.

UNDERGRADUATES IN GRADUATE COURSES

A student may begin graduate work in the School of Graduate Studies of the College while fulfilling the requirements for an undergraduate degree if the student's academic performance and promise justify such action. Credits earned in excess of those required for the undergraduate degree may be offered toward an advanced degree. The student must have senior status, a GPA of 3.00, and permission of the department chair and Dean of the School of Graduate Studies. The combined number of graduate and undergraduate credits may not exceed 15 per semester. Registration is on a space-available basis; the student must comply with any required course sequencing and must fulfill all prerequisites.

Full-time undergraduates who register for both undergraduate and graduate courses pay no additional tuition or fees. Part-time undergraduates who register for graduate courses must pay the graduate tuition.

WITHDRAWAL/LEAVE OF ABSENCE

A student who wishes to withdraw from the School of Undergraduate Studies must notify the Dean of the School of Undergraduate Studies ***in writing*** of the decision to do so. Appropriate forms are available from the Dean of the School of Undergraduate Studies or Associate Dean for Academic Advising. For relevant financial information see page 17.

A student in good academic standing may interrupt his/her college program by requesting from the Dean of the School of Undergraduate Studies a leave of absence for one or two semesters. This allows the student to return to the School of Undergraduate Studies within one year. A student who does not return by the end of the leave of absence will be officially withdrawn from the School of Undergraduate Studies and must reapply for admission if he/she wishes to return.

ACADEMIC HONESTY POLICY

PLAGIARISM

Plagiarism is defined as the submission of written work (exams, papers, etc.) that incorporates ideas from another individual (student, teacher, author, etc.), and presents these ideas as one's own without adequate acknowledgement of the source. Plagiarism is a serious offense against academic integrity and will be grounds for serious action that includes but is not limited to failing the exam or assignment and possibly receiving a failure in the course.

If an instructor suspects that a student may have committed plagiarism, the instructor will discuss the issue with the student, and identify methods and materials that the student may supply to determine the facts. It is the prerogative of the instructor to ascertain whether the evidence submitted by the student is satisfactory. Instructors are urged to discuss suspected cases of plagiarism with the chair of the relevant department. In cases of confirmed plagiarism, the instructor shall supply written notification to the chair, who will then immediately inform the appropriate Academic Dean. In consultation with the instructor, appropriate department chair, and the student, the Dean will then inform the student of the action that will be taken regarding the plagiarism.

The following acts will be deemed acts of plagiarism, though the list is not exhaustive:

- Presenting published or unpublished work prepared by others, or dictated by others, as your own, including papers purchased or borrowed from any person or organization;
- Presenting, as your own, reports or exercises copied from or dictated by others;
- Presenting, as your own, homework assignments of any kind copied from or dictated by others;
- Presenting, as your own, oral reports copied from or dictated by others;
- Incorporating formal lecture notes into your own work without acknowledgment and presenting them as your own;
- Presenting, as your own, a computer solution developed by someone else;
- Copying the ideas, and/or speculations, and/or language of any other person or persons, without acknowledgment, and presenting this as one's own original work.

CHEATING

Cheating violates the deepest convictions of the College community.

The following acts are examples of cheating, though the list is not exclusive:

- Using prepared materials not specifically allowed by the instructor during the taking of an examination, test or quiz, e.g.
- Use of material written by another student during the taking of an examination, test or quiz, either with or without his or her knowledge; or
- Use of crib notes; or
- Use of texts and/or supplementary marginal notations in texts; or
- Use of notes written on the surface of the desk at which examination is being taken; or
- Use of unauthorized calculators or any other unauthorized aids.
- Collaborating during an in-class examination, test or quiz, either in the giving or receiving of information or improper collaboration on a take-home examination or laboratory report.
- Stealing, using or transmitting verbally or otherwise, actual examinations, test, quizzes or portions thereof, or other likewise confidential information before or during the time of the exam. Once an exam has been given it becomes part of the public domain.
- Submitting for a grade in one class any material previously or simultaneously submitted for a grade in another class without documented authorization from both instructors.
- Taking an examination by proxy.
- Falsifying of laboratory or research data or results; or falsifying or inventing bibliographical entries for research papers.
- Withholding knowledge of an incident of cheating or plagiarism from the individual instructor to whom the work is submitted.
- Willfully aiding or abetting any act of cheating.
- Willfully aiding or abetting any act of plagiarism.

Plagiarism and/or cheating may result in dismissal from the Program.

SEXUAL HARASSMENT POLICY

POLICY STATEMENT

It is the policy of Chestnut Hill College that no administrator, faculty member, staff member or student shall be subject to sexual harassment by another.

POLICY RATIONALE

Chestnut Hill College values right relationships, respect for all and shared responsibility. Therefore, Chestnut Hill College is committed to fostering an educational and working environment that is free from sexual harassment. In recognition of and respect for the dignity of all at Chestnut Hill College, sexual harassment in any form cannot be tolerated. This policy directly supports our mission in the areas of shared responsibility, social justice, and communal respect. The last decade has witnessed a heightened awareness in our society of the various forms of sexual misconduct; and a deep and sincere concern for the entire College community prompts us to form a policy on Sexual Harassment.

Chestnut Hill College is dedicated to compliance and cooperation with applicable laws and programs of the United States of America. The following policy has been adopted to carry out the intent of laws, to inculcate Chestnut Hill College values into daily professional lives and to integrate the Chestnut Hill College Mission Statement into College policy.

The purpose of this policy is:

- to educate the community on the definition of sexual harassment,
- to outline the steps necessary to deal most effectively with cases involving allegations of sexual harassment, and
- to define the rights and responsibilities for members of the Chestnut Hill College community.

LEGAL DEFINITION

Harassment on the bias of sex is a violation of Section 703 of Title VII of the 1964 Civil Rights Action and Title IX of the Educational Amendments of 1972. Unwelcome sexual advancements, requests for sexual favors, and other verbal or physical conduct of a sexual nature constitute sexual harassment when:

- submission to such conduct is made either explicitly or implicitly a term or a condition of an individual's employment or academic advancement;
- submission to or rejection of such conduct by an individual is used as a basis for employment or academic decisions affecting that individual: or
- such conduct has the purpose or effect of unreasonably interfering with an individual's academic or work performance or creating an intimidating, hostile, or offensive educational, living or working environment.

SCOPE OF POLICY

The policy and the procedures set forth herein apply to and cover all members of the College community without exception. The College community includes all administrators, faculty, staff, and students. Members of the College community who are traveling abroad on College business or due to a College course are expected to comply with this policy regardless of local laws and/or customs.

TO REPORT A COMPLAINT:

All members of the College community, as defined above under Scope of Policy, who believe they may have been subject to sexual harassment, herein Complainants, shall submit their complaint to a Designated Complaint Recipient. Designated Complaint Recipients, herein Recipient(s), are:

- the Assistant to the President for Administration and Special Projects,
- the Vice President for Financial Affairs,
- the Vice President for Student Affairs, and
- the Vice President for Academic Affairs.

The recipient will notify the President of all complaints. The President will confidentially contact the College's attorney and, with the Recipient, determine the appropriate procedure to follow to ensure timely and confidential resolution to the complaint.

RESPONSIBILITIES

All members of the College community are responsible for ensuring that their conduct does not sexually harass any other member of the College community. This same responsibility extends to employees of third parties who are either doing business with the College or are on the College campus and to other campus visitors. Further, all members of the College have the responsi-

bility of preventing and eliminating sexual harassment. If administrators and supervisors know sexual harassment is occurring, receive a complaint of sexual harassment or obtain other information indicating possible sexual harassment, they must take immediate steps to inform a Designated Complaint Recipient to ensure the matter is addressed even if the problem or alleged problem is not within their area of oversight. Faculty, staff, and students likewise must inform a Designated Complaint Recipient if they have reason to believe sexual harassment, as defined above, is occurring. Individuals who believe that they have been subject to sexual harassment are responsible for informing a Designated Complaint Recipient in a prompt and timely manner. The effective investigation of possible incidents and early resolution of complaints cannot be effectively accomplished when individuals fail to come forward with their complaint within a reasonable time period. It is the responsibility of each member of the campus community to ensure that such incidents do not go unreported. In internal proceedings, the College in general will not be sympathetic to a defense based on consent when the situation is such that the Accused had the power to affect the Complainant's employment status or future prospects.

ART, ART HISTORY AND MUSIC

Kathleen McCloskey, SSJ, M.M., Instructor in Music, Director of Music, Chair
Suzanne Conway, M.A., Associate Professor of Art History
Kathleen Szpila, SSJ, Ph.D., Assistant Professor of Art History
Margaret Thompson, SSJ, M.F.A., M.A., Associate Professor of Art
Therese Benedict McGuire, SSJ, Ph.D., Professor of Art

ART, ART HISTORY and MUSIC

The Art, Art History and Music Department offers students opportunities to minor in Art History, Art Studio, and Music within the Liberal Arts Curriculum as well as offering courses that fulfill the Artistic Way of Knowing requirement and elective courses of special interest to students. Students who study Art, Art History, and Music deepen their understanding of human nature and of themselves. Through a variety of approaches to creative expression, students develop observation and/or listening skills, as they engage in analysis, criticism, response, and performance experiences.

The Art Studio Program offers students the opportunity to participate in College productions, the study of Theater and set design, the creation of sets and involvement as stage crew. Students who create art in Art Studio classes exhibit their work regularly in the Dwight V. Dowley Art Gallery and in the main corridor of the College. Class trips to art museums and galleries are part of the Art curriculum.

The Music Program includes public performances, such as the annual Christmas Carol Night, the Christmas Concert, and the Spring Show plus seasonal solo and group chamber performances, as well as Liturgical and Academic assemblies. Opportunities for musical performance are available to students through Chorus, Chamber Singers, Instrumental Ensemble and voice or instrumental lessons.

ART HISTORY

Art History is rooted in a chronological study of the development of art and is designed to deepen the student's understanding of human expression and self-expression through the study of master works, styles, forms, vocabulary, and other aspects that contribute to a basic knowledge of art history.

ART STUDIO

Art Studio courses focus on the art-making side of the art process to learn basic skills that will facilitate the development of a personal style of self-expression through visual art. While creating their own art works the students learn perceiving skills of reflection, criticism and response through critiques and exhibitions as well as allusions to the art heritage and an awareness of the role of art in society.

MUSIC

The general Music classes offer students an opportunity to study characteristics of music styles from a variety of cultures and time periods. In these classes students deepen their understanding of various musics through listening and discussion. While Basic Musicianship uses a "hands on approach" with the study of keyboard and recorder, Music Theory provides the student with the tools for a solid foundation to analyze and create musical compositions. Private voice and instrumental lessons are available for students who wish to develop their personal music skills.

■ **Requirements for a minor in Art Studio** – *18 credits, distributed as follows:*

ARTST	121	Drawing Techniques
ARTST	131	Painting
ARTST	220	Art by Heart: Design and Culture from the Global Village
ARTST	272	Color My World: Color Theory in Design and Culture

One 3D course: Metal Sculpture and Jewelry, Theater Arts, or Ceramics
One Open Studio elective

■ **Requirements for a minor in Art History** — *18 credits, distributed as follows:*
6 credits chosen from Art 101, Art 102, or Art 103.
12 credits (12 credits Four electives) of the student's choosing.
One internship (3 credits) may be included in the four electives.

ART HISTORY

Course descriptions that are designated with a (A) fulfill the Artistic Ways of Knowing requirement of the Core Curriculum.

ART 101-102 The History of Western Art (A) **3 credits each**
A chronological survey of the development of art, from the prehistoric age to the contemporary period.

ART 185 7th Century Art (A) **3 credits**
A study of the painting, sculpture, and architecture of the seventeenth century in Europe, with emphasis on the great masters, e.g., Bernini, Caravaggio, Rembrandt, Poussin, and Velasquez, and the relationship between patronage and the arts.

ART 186 Rococo to Revolution (A) **3 credits**
A study of the painting, sculpture, and architecture of France and England in the eighteenth century seen through the lens of the political and intellectual radicalism which produced the French revolution.

ART 191 Romanticism to Post-Impressionism (A) **3 credits**
A study of the radical defiance of the accepted academic style by such French artists as Delacroix, Manet, Monet, Morisot, VanGogh and Cézanne within the context of the rapid social, political, and economic changes of the nineteenth century.

ART 192 Twentieth (Century) and Contemporary Art (A) **3 credits**
An investigation of art in the twentieth century. Explores connections between the arts (painting, sculpture, architecture and design) and historical events, issues and beliefs of the period.

ART 193 American Architecture (A) **3 credits**
Traces the evolution of American Architecture from mid-nineteenth century to the present day. Treats the development of styles beginning with the Chicago school and highlights prominent American architects such as Frank Lloyd Wright.

ART 201 Historical Survey of Women Artists (A) **3 credits**
Introduction to the role of women in the history of Western painting. Art 101 or 102 recommended.

ART 210 Northern European Renaissance (A) **3 credits**
A study of fifteenth and sixteenth century painting in Flanders, France, the Holy Roman Empire and England, concentrating on the distinctive character of northern Renaissance art.

ART 212 Looking at Landscape Design (A) **3 credits**
An exploration of the intellectual, social, and political reasons for the persistent passion for garden-making from the Middle Ages to the twenty-first century in Europe and the United States.

ART 230 Paris: An Urban History (A) **3 credits**
An investigation of the reasons Paris is considered one of the most beautiful and livable cities of the world, featuring such famous and not-so-famous landmarks as: the Eiffel Tower, the Louvre, the Champs-Elysées, and Place des Vosges.

ART 261 Early Italian Renaissance Art (A) **3 credits**
A study of Italian painting, sculpture and architecture from the thirteenth century through the fifteenth centuries. Emphasizes new understandings of the self and of the world and their effects on the arts.

ART 280 The Art of Black Africa (A) **3 credits**
An exploration of the traditional sculpture of the peoples of the sub-Saharan Africa with particular attention to the relationship between tribal society and the art it makes.

ART 281 Michelangelo and His Times (A) **3 credits**
An analysis of the work of Michelangelo within the context of his rivals for greatness, real and imagined, as well as the intellectual, political, and economic environment of the sixteenth century in Italy.

ART 286 Medieval Art (A) **3 credits**
A study of the arts of Western Europe from the early Christian era through the Gothic Period.

ART 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. By *Departmental invitation only.*

ART 401-402 Internship **3 credits each**
Apprenticeship in curatorial departments of major Philadelphia area museums and house museums as well as in non-curatorial areas such as education, conservation, public relations and development, or work with the National Park Service.

ART 403-404 Cooperative Education **(See page 26)**

ART STUDIO

ARTST 102 Ceramics **3 credits**
An introductory course developing a variety of hand building techniques in clay. Explores both functional and sculptural forms and covers fundamentals of glazing and kiln operation. *Studio Fee; see fee schedule.*

ARTST 121 Drawing Techniques (A) **3 credits**
From visual representation to statements of individual style, students study the elements and principles of Art through a variety of drawing techniques and. Media. Designed for non-majors and majors. *Studio Fee; see fee schedule.*

ARTST 131 Painting (A) **3 credits**
A survey of painting media, of techniques, with an emphasis on experimentation, acquisition of skills aimed at the development of a personal visual language and style in painting. Designed for non-majors and majors *Studio Fee; see fee schedule.*

ARTST 140 The Art of Theater Design (A) **3 credits**
An introduction to the history of theater design and its importance as a means of enhancing dramatic productions in theater, film and television. Provides practical applications in constructing miniature sets, lighting, coordinating colors and themes.

ARTST 141 Silk Screening **3 credits**
An introduction to the varied aspects of silk screen printing, using paper and film stencils, for both paper and textile printing. *Studio Fee; see fee schedule.*

ARTST 161 Introduction to Metal Sculpture and Jewelry **3 credits**
Introduction to the fundamentals of jewelry making, using precious metals. Includes lost-wax method. *Studio Fee; see fee schedule.*

ARTST 202 Intermediate Ceramics **3 credits**
A continuation of the study of clay. Provides experience in both hand building and use of wheel. *Prerequisite: ARTST 102. Studio Fee; see fee schedule.*

ARTST 220 Art by Heart: Design and Culture from the Global Village (A) **3 credits**
An Art Studio course that studies art and artifacts from diverse cultures from around the world examining creativity and innovative use of media to express the desires of the human spirit. Inspired by these forms, the students then make their own art work expressing their unique experience of life. *Studio Fee; see fee schedule.*

ARTST 221 Intermediate Drawing **3 credits**
Explores a variety of drawing ideas and techniques with an emphasis on design, skill in choice and use of media for personal visual expression. In addition to working on teacher directed drawing projects with the class, students work with the teacher to propose and pursue more complex assignments of special interest to them individually. *Prerequisite: ARTST 121. Studio Fee; see fee schedule.*

ARTST 231 Intermediate Painting **3 credits**
Explores a variety of painting ideas and techniques with an emphasis on design, skill in choice and use of media for self-expression. In addition to working on teacher directed painting projects, students propose and pursue more complex assignments of special interest to them individually. *Prerequisite ARTST 131. Studio Fee; see fee schedule.*

ARTST 234 Water Color Painting (A) **3 credits**
An exploration of the techniques of painting with watercolor with an emphasis on experimentation with this fluid and versatile medium. Issues include: painting from observation, painting from imagination, choice of paper, collage, drawing for painting, color. *Studio Fee; see fee schedule.*

ARTST 235 Special Projects in Art Studio (A) **3 credits**
This course is designed for anyone who desires to explore a personal idea through visual art making process. Students work with a teacher in the Art Studio on self-selected topics creating a series of art works that pursue this idea in visual form. Using a variety of media or specializing in a specific medium, students explore an idea from many sources including their major or interdisciplinary

studies or from their own life experience. In addition to creating original artworks students are directed in researching their art idea as others have explored it throughout the history of art. No prior art studio course is necessary. With permission of the advisor this course can fulfill requirements in other studio courses in drawing, painting, design and color. *Studio Fee; see fee schedule.*

ARTST 241 Intermediate Silk Screening **3 credits**
An in depth study of the use of both film stencils and photographic stencils on paper and textiles. *Prerequisite: ARTST 141. Studio Fee; see fee schedule.*

ARTST 261 Intermediate Metal Sculpture and Jewelry **3 credits**
A continuation in the art of jewelry making and metal crafts. Soldering, hammering, lost-wax methods. *Prerequisite: ARTST 161. Studio Fee; see fee schedule.*

ARTST 272 Color My World: Color and Design from the Global Village (A) **3 credits**
An art studio course that studies color theory and its use in the art and artifacts from diverse cultures around the world examining their creativity and innovative use of color to express the desires of the human spirit. Inspired by these forms, the students then make their own artworks with a special emphasis on color theory. *Studio Fee; see fee schedule.*

ARTST 321 Advanced Drawing **3 credits**
An advanced studio approach to drawing emphasizing maturation of ideas, skills, and style. Students explore complex ideas and techniques in drawing and move toward greater independence in the selection of content and subject matter for their drawings. *Prerequisite: ARTST 221. Studio Fee; see fee schedule.*

ARTST 331 Advanced Painting **3 credits**
An advanced studio approach in which students use the knowledge and skills they have acquired in the study of art, art history and the contemporary art world to pursue complex and challenging projects. Students become more independent in selecting ideas in terms of purpose, media and technique. *Prerequisite: ARSTT 231. Studio Fee; see fee schedule.*

ARTST 334 Advanced Watercolor **3 credits**
An advanced exploration of watercolor techniques aimed at control and freedom, use of color, and creative combinations in pursuit of personal expression and style. *Prerequisite: ARTST 234. Studio Fee; see fee schedule.*

ARTST 335 Advanced Projects in Art Studio **3 credits**
An Art Studio course for students to work on an advanced level creating a body of art pursuing an idea that is of special interest to them individually. Students work with the teacher to create a series of artworks related to the self-designed project. Students may explore an idea using a variety of media and mixed media or specialize in a specific medium. In addition to creating original artworks students are directed in researching their art idea as others have explored it through out the history of art. With permission of the advisor the course can fulfill requirements for other art studio courses in drawing, painting and design. *Studio Fee; see fee schedule.*

ARTST 341 Advanced Silk Screening **3 credits**
Explores experimental procedures including printing on different fabrics, glass, wood and metal. *Prerequisites: ARTST 141 and 241. Studio Fee; see fee schedule.*

ARTST 361 Advanced Metal Crafts and Jewelry **3 credits**
An advanced course in the art of jewelry making and metal crafts. More advanced methods of soldering, hammering, and lost wax. *Prerequisites: ARTST 161 and 261. Studio Fee; see fee schedule.*

ARTST 371 Advanced Design and Mixed Media **3 credits**
Special Problems in the application of design and mixed media. *Studio Fee; see fee schedule.*

ARTST 398 Senior Seminar in Art Studio **3 credits**
The Art Studio major pursues an in depth study of a specific art concept through the production of a body of visual art. Working closely with the studio adviser the student prepares the studies, documentation and gallery installation of original art work accompanied by a written report for students admitted prior to Fall 2003. *Studio Fee; see fee schedule.*

ARTST 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. By Departmental invitation only.

ARTST 401-402 Internship **3 credits each**
Practical experience at a site approved by the department.

ARTST 403-404 Cooperative Education **(See page 26)**

MUSIC MINOR

Academic Credits : 12 credits
Non-Academic Credits: 6 credits

Academic Requirements (6 credits)	**Non Academic Requirements (1 credit each)**
Theory I	Chamber Singers
Music in Western Culture 101 or 102	Instrumental Ensemble
	Chestnut Hill College Community Chorus

Academic Electives (3 credits)	**Non Academic Electives(1 credit each)**
Music in Western Culture 101 or 102	Piano Class
Music in 20th Century America 124-125	Voice/Instrumental Lessons
History of Jazz	
Native American Art, Music, Culture	

Course descriptions that are designated with a (A) fulfill the Artistic *Ways of Knowing* requirement of the Core Curriculum.

MUS 100 Basic Musicianship (A) **3 credits**
Designed for the student with little or no background in music. Using a "hands on'' approach, students explore, experience and conceptualize the fundamentals of music by playing recorder and keyboard. Includes a stylistic survey of various musical periods and instruments of the orchestra.

MUS 101-102 Music in Western Culture (A) **3 credits each**
A chronological survey of the development of music, its styles and characteristics, from the Middle Ages to the contemporary period. No musical background necessary.

MUS 107 North American Music, Art, Culture (A) **3 credits**
Designed for the student interested in the art, music and culture of the aboriginal people of North America. Explores the history, struggles and hopes of the natives. Focuses on the Ojibway, Cree, Metis and Innuit of Canada, and the Navajo, Iroquois, Cherokee and Sioux of the United States. Course format includes lecture, listening, viewing and discussion.

MUS 108 Music Theory I **3 credits**
A fundamental study of music theory, including sight singing, ear training, and basic harmony and basic conducting skills. Explores melodic and rhythmic dictation, reading music from sight, both orally and at the keyboard. *Required of all music minors*

MUS 124-125 Music in Twentieth Century America (A) **3 credits**
A panoramic survey of the streams of American music in the twentieth century. Encompasses ethnic, folk, religious, and popular music; jazz and its forerunners; the American musical theater; and serious music spanning the entire century. *No musical background necessary.*

MUS 129 The History of Jazz (A) **3 credits**
A study of this unique American art form from its origin to the present day, including its impact on contemporary society.

APPLIED MUSIC

MUSAP 153-154 Chorus **1 hour each**
Performance of choral literature for mixed voices. Performances held at Christmastime. In the Spring, the Chorus participates in the annual musical theater production. Non-academic credit given.

MUSAP 155-156 Instrumental Ensemble **1 hour each**
The study and performance of chamber music. Open to students with knowledge of an orchestral instrument. Non- academic credit given.

MUSAP 157-158 Chamber Singers **1 hour each**

Small choral group meets weekly to prepare repertoire for Carol Night, a Spring performance and other College-related events. Previous singing experience is recommended. Non-academic credit given.

Voice Lessons – 143-44, 243-44, 343-44, 443-44
Piano Lessons – 141-42, 241-42, 341-42, 441-42
Violin Lessons –145-46, 245-46, 345-46, 445-46
Guitar Lessons –171-72, 271-72, 371-72, 471-72
Other Orchestral Instruments- 157-58, 257-58, 357-58, 457-58

Credits earned for applied music courses do not count toward graduation requirements.
There is a fee per semester for all private music lessons. *See fee schedule.*

MUSAP 161-162 Jazz Ensemble **1 hour each**

The study and performance of music for instrumental jazz group. Non-academic credit given. Knowledge of an instrument is a given

BUSINESS ADMINISTRATION

John J. Gerace, Ph.D., P.E., Assistant Professor of Business, Chair
Robert J. Durney, M.B.A, Assistant Professor of Business
Nick L. Nicholas, Ph.D., Professor of Business
Francis M. Pufko, M.B.A., Assistant Professor of Business

The Department of Business Administration offers majors in **Accounting, Business Administration, International Business, Language, and Culture, and Marketing.** These majors are structured to assist students in planning for graduate education, public service and the corporate world.

ACCOUNTING

The **Accounting** major provides students with both the theoretical background and application of the concepts and procedures of accounting. Students also study the basic areas of economics, finance, marketing, and management. The study of accounting prepares the student for graduate or professional school, or for careers in public or private accounting.

■ **Requirements for a major** – *66 credits, distributed as follows:*

- **Accounting** (27 credits)

BUACC	103	Financial Accounting
BUACC	104	Managerial Accounting
BUACC	213-214	Intermediate Accounting Theory I and II
BUACC	223	Cost Accounting
BUACC	313	Taxes
BUACC	333	Auditing
BUACC	363-364	Advanced Accounting Theory I and II

- **Business Administration** (6 credits)

BUADM	120	Law and the Business Enterprise I
BUADM	396	Senior Seminar

- **Finance** (6 credits)

BUFIN	201	Principles of Finance: Money and Banking
BUFIN	304	Corporate Finance

- **Management** (6 credits)

BUMGT	204	Organization and Management of Human Resources
BUMGT	300	Operations Management

- **Economics** (6 credits)

ECON	105	Microeconomic Principles
ECON	106	Macroeconomic Principles

- **Mathematics** (9 credits)

MATH	195-196	Mathematics for Management and the Social Sciences I and II
MATH	225	Introduction to Statistics I

- **Marketing** (3 credits)

BUMKT	203	Marketing Principles

- **Computer Applications** (3 credits)

COMAP	103	Introduction to Excel
COMAP	160	Introduction to PowerPoint
COMAP	180	Introduction to Access

Students planning to sit for the Uniform Certified Public Accounting (CPA) examination are advised to contact the State Board of Accountancy in the state in which they plan to qualify for specific educational and experience requirements mandated by that state.

BUSINESS ADMINISTRATION

The **Business Administration** curriculum is designed to provide the student with knowledge in the basic areas of accounting, finance, marketing, and management. These areas are supported by computer applications, economics, and mathematics. This major offers the flexibility to participate in an individualized concentration.

■ **Requirements for a major** – *60 credits, distributed as follows:*

- **Accounting** (6 credits)
  BUACC 103 Financial Accounting
  BUACC 104 Managerial Accounting
- **Business Administration** (6 credits)
  BUADM 100 Introduction to Business
  BUADM 396 Senior Seminar
- **Finance** (6 credits)
  BUFIN 201 Principles of Finance: Money and Banking
  BUFIN 304 Corporate Finance
- **Management** (6 credits)
  BUMGT 204 Organization and Management of Human Resources
  BUMGT 303 Corporate Decision-Making
- **Marketing** (3 credits)
  BUMKT 203 Marketing Principles
- **Three additional courses in Business** (9 credits)
- **Economics** (9 credits)
  ECON 105 Microeconomic Principles
  ECON 106 Macroeconomic Principles
  ECON 301 Intermediate Microeconomic Theory
- **Mathematics** (12 credits)
  MATH 195-196 Mathematics for Management and the Social Sciences I and II
  MATH 225-226 Introduction to Statistics I and II
- **Computer Applications** (3 credits)
  COMAP 103 Introduction to Excel
  COMAP 160 Introduction to PowerPoint
  COMAP 180 Introduction to Access

INTERNATIONAL BUSINESS, LANGUAGE, AND CULTURE

The **International Business, Language, and Culture** Major is an interdisciplinary, globally oriented program that includes a strong language component. It will provide solid preparation for a career in international business, in both profit and not-for-profit organizations, competence in French or Spanish language and culture, and a foundation for graduate study. Supporting courses in other departments complement the major requirements. (See page 92).

MARKETING

The **Marketing** major is designed to provide the student with an in-depth exposure to the various facets of marketing including research analysis and planning.

■ **Requirements for a major** – *63 credits, distributed as follows:*

- **Marketing** (21 credits)
  BUMKT 203 Marketing Principles
  BUMKT 205 Consumer Behavior

BUMKT	265	Marketing Management
BUMKT	310	Marketing Research

- **Three additional courses in Marketing**
- **Accounting** (6 credits)

BUACC	103	Financial Accounting
BUACC	104	Managerial Accounting

- **Business Administration** (3 credits)

BUADM	396	Senior Seminar

- **Finance** (6 credits)

BUFIN	201	Principles of Finance: Money and Banking
BUFIN	304	Corporate Finance

- **Management** (6 credits)

BUMGT	204	Organization and Management of Human Resources
BUMGT	303	Corporate Decision-Making

- **Economics** (6 credits)

ECON	105	Microeconomic Principles
ECON	106	Macroeconomic Principles

- **Mathematics** (12 credits)

MATH	195-196	Mathematics for Management and the Social Sciences I and II
MATH	225-226	Introduction to Statistics I and II

- **Computer Applications** (3 credits)

COMAP	103	Introduction to Excel
COMAP	110	Introduction to PowerPoint
COMAP	180	Introduction to Access

MINOR IN GLOBAL ECONOMICS AND BUSINESS ADMINISTRATION

The **Global Economics and Business Administration** minor is designed to provide students with an understanding of the structure and process of global economic and business practices. Students will gain a working knowledge of the technical aspects of the international economic system, an understanding of the political effects of international economic policies and behavior, as well as familiarity with some of the cultural differences that abound in today's business climate.

■ **Requirements for a minor** – *18 credits distributed as follows:*

- **Two of the following:**

BUADM	101	International Business
BUMKT	206	International Marketing
ECON	111	Introduction to Global Economics

- **One of the following:**

POLSC	118	Introduction to International Relations
SOC	104	Major Global Issues

Two courses with a global theme selected in consultation with the department adviser.
Internship or Cooperative Education

ACCOUNTING

Course descriptions that are designated with a (B or P) fulfill the Behavioral or Problem Solving Ways of Knowing requirement of the Core Curriculum.

BUACC 103 Financial Accounting (B, P) **3 credits**
A study of the basic accounting cycle and financial statement preparation as applied to service and merchandising enterprises. Analyzes the accounting system of a sole proprietorship.

BUACC 104 Managerial Accounting (B) **3 credits**
Interpretation and use of accounting data for management decisions; financial statement analysis, the statement of cash flows and manufacturing costs. The accounting systems of partnerships and corporations are compared and contrasted. *Prerequisite: BUACC 103.*

BUACC 113 Introduction to Computerized Accounting **1 credit**
One credit course designed to highlight the usefulness of computers in accounting. Students use the computer in recording transactions for a small business. *Prerequisite: BUACC 103.*

BUACC 213 Intermediate Accounting Theory I (B) **3 credits**
An in-depth study of the theory and application of accounting topics including the accounting cycle, financial statements, assets, and liabilities. *Prerequisite: BUACC 104.*

BUACC 214 Intermediate Accounting Theory II (B) **3 credits**
A continuation of Intermediate Accounting Theory I. Topics includes stockholders' equity, revenue recognition, leases, pensions, cash flows, and financial statement analysis. *Prerequisite: BUACC 213.*

BUACC 223 Cost Accounting (B) **3 credits**
An examination of the principles of cost accounting, concentrating on the use of cost data for management planning and control. Examines job order and process cost systems along with budgeting procedures, standard cost systems, and various managerial applications of cost accounting information. *Prerequisite: BUACC 104.* Offered Spring 2005 and alternate years.

BUACC 313 Taxes **3 credits**
A study of the Federal Income Tax Law concentrating on taxes relating to individuals and corporations. Topics include income, deductions, tax credits, and property transactions. *Prerequisite: BUACC 103.* Offered Fall 2003 and alternate years.

BUACC 333 Auditing **3 credits**
An introduction to auditing theory and application with emphasis on specific procedures used when examining financial statements. Examines professional ethics, types of audits, internal control, statistical sampling, and reporting obligations. *Prerequisite: BUACC 214.* Offered Spring 2004 and alternate years.

BUACC 363 Advanced Accounting Theory I **3 credits**
A detailed study of accounting topics including business combinations, consolidated financial statements, and intercompany transactions. *Prerequisite: BUACC 214.* Offered Fall 2004 and alternate years.

BUACC 364 Advanced Accounting Theory II **3 credits**
A continuation of Advanced Accounting Theory I. Discusses the theory and application of accounting topics including partnerships, governmental units, nonprofit organizations, estates and trusts, multinational enterprises and liquidations. *Prerequisite: BUACC 363.* Offered Spring 2005 and alternate years.

BUACC 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

BUACC 401-402 Internship **3 credits each**
Off-campus program designed to provide the qualified junior or senior major with an opportunity for direct experience in the field of economics and business. Student writes a short paper relating to the experience.

BUACC 403-404 Cooperative Education **(See page 26)** **3 credits each**

BUSINESS ADMINISTRATION

BUADM 100 Introduction to Business (B) **3 credits**
An overview of American business. Exposure to the theoretical framework and structure of the business environment, including accounting, ethics, finance, management, and marketing.

BUADM 101 International Business **3 credits**
The theories of international trade and finance are discussed. The Heckscher-Ohlin Model, balance of payments, theory of comparative advantage, and global business are covered, then emphasis shifts to the legal, ethical, and motivational issues in a multicultural environment.

BUADM 102 Business Ethics (B) **3 credits**
An in-depth analysis of complex ethical dilemmas in business management, focusing on managing ethical decisions, establishing an ethical culture, and whistle blowing. Evaluates a firm's fiscal and social obligations to its employees, stockholders, customers, creditors, suppliers, and neighbors. Employs role playing and case analysis.

BUADM 103 Introduction to Excel (See COMAP 103) **1 credit**

BUADM 160 Introduction to PowerPoint (See COMAP 160) **1 credit**

BUADM 180 Introduction to Access (See COMAP 180) **1 credit**

BUADM 120 Law and the Business Enterprise I (B) **3 credits**
Geared primarily for business majors. Focuses on the law of contracts, product liability, landlord/tenant law, negligence, torts, trademarks and other topics relevant to the business world.

BUADM 280 Information Management (See COMAP 280) **3 credits**

BUADM 396 Seminar **3 credits**
A flexible course designed to complement or supplement course work of students. Each student presents an in-depth research paper. Word processing required.

BUADM 400 Honors (See BUACC 400)

BUADM 401-402 Internship (See BUACC 401-402) **3 credits each**

BUADM 403-404 Cooperative Education **(See page 26)** **3 credits each**

ECONOMICS

ECON 105 Microeconomic Principles (B, P) **3 credits**
A study of the principles underlying the functioning of individual economic units such as consumers, households, firms and industries. Focuses on the determination of the price of products and productive inputs in the framework of a capitalist economy.

ECON 106 Macroeconomic Principles (B) **3 credits**
A study of the economic problems confronting all societies. Focuses on the U.S. economy, its institutions, its manner of coping with the issues of unemployment, inflation and economic growth.

ECON 109 Environmental Economics (B) **3 credits**
A study of the application of economic principles to the development and management of environmental resources. The course will begin with an examination of the methods of economic analysis. Environmental economic policies and its national and global applications will be discussed in detail.

ECON 111 Introduction to Global Economics (B) **3 credits**
An introduction to the international economy. Topics include balance of payments, comparative economic systems, trade, and international institutions. Offered Spring 2005 and alternate years. *Prerequisite: ECON 106.*

ECON 201 Principles of Finance: Money and Banking (B, P) **3 credits**
(See **BUFIN 201**)

ECON 301 Intermediate Microeconomic Theory **3 credits**
An examination of market structures and the uses of marginal cost analysis. Includes attention to pricing, to measurement and forecasting of product demand and profit, and to formulation and evaluation of business policy. *Prerequisites: ECON 105; MATH 196; MATH 225.*

ECON 312 History of Economic Thought **3 credits**
A historical and analytical study of major developments in economics through the contribution of major schools and economists. Topics include: mercantilism, classical economics, Marxian economics, marginalism, neoclassical economics, Keynesian and post-Keynesian economics.

MANAGEMENT

BUMGT 204 Organization and Management of Human Resources (B) **3 credits**
An in-depth examination of organizational behavior as it relates to the management of individuals and groups at work. Emphasizes individual motivation and the organization system with its own design, policies, ethics, and culture. Investigates management techniques and their impact on employees at work.

BUMGT 210 Interpersonal and Organizational Communications **3 credits**
(See **COM 210**)

BUMGT 265 Marketing Management **3 credits**
Students demonstrate their understanding of marketing principles by designing a business marketing plan. *Prerequisite: BUMKT 203.* Offered Spring 2004 and alternate years.

BUMGT 300 Operations Management **3 credits**
Discussion includes plant location, equipment investment decisions, plant layout, work-force management, and inventory control. Examines quantitative models used in solving management problems. *Prerequisites: MATH 196; MATH 225.* Offered Fall 2004 and alternate years.

BUMGT 303 Corporate Decision-Making **3 credits**
Through ownership of a fictional corporation, provides insights into operational functions and decisions of management presented by "executive-professors." Open to junior and senior business majors.

BUMGT 304 Culture in International Business Decision-Making **3 credits**
Assuming that students own a fictional corporation that produces and sells products in the United States and foreign markets, this course provides the opportunity for students to relate their business, foreign language, and cultural skills to the practical problems in the global market. The students report the results of their investigations in a comprehensive business plan. Open to junior and senior business majors.

MARKETING

BUMKT 203 Marketing Principles (B) **3 credits**
Examines environmental variables marketing managers should consider before designing strategy with emphasis on buyer characteristics and competitive activity. Marketing strategy options are considered for product, distribution, pricing, and promotion.

BUMKT 205 Consumer Behavior (B) **3 credits**
Explores psychological and sociological variables marketing managers should examine in order to understand the needs of potential buyers including motivation for purchase, attitudes and values, cultural background, and social class. Analyzes the adjustment of marketing strategy to satisfy needs of different market segments.

BUMKT 206 International Marketing (B) **3 credits**
Studies foreign economic, political and social environments to understand potential modifications to domestic product, price, promotion and distribution. Selected cases emphasize international marketing successes and failures. *Prerequisite: BUMKT 203.* Offered Fall 2004 and alternate years.

BUMKT 254 Advertising (B) **3 credits**
Covers advertising objectives, research, creative execution, media selection, legal and ethical requirements and budgeting. Offered Spring 2004 and alternate years. *Prerequisite: BUMKT 203*

BUMKT 255 Public Relations (See COM 255) **3 credits**

BUMKT 256 Sales Force Management **3 credits**
An analysis of the components of an effective sales presentation and issues faced by sales managers including recruiting, training, motivating, supervising, and evaluating sales personnel. Offered Spring 2004 and alternate years.

BUMKT 265 Marketing Management (See BUMGT 265) **3 credits**

BUMKT 310 Marketing Research **3 credits**
Applies the scientific method, (i.e., problem definition, hypothesis formation, data collection and analysis), to marketing decision making. Students conduct a marketing research study and present their findings. *Prerequisites: BUMKT 203, MATH 196, MATH 225, MATH 225.* Offered Spring 2004 and alternate years.

BUMKT 400 Honors (See BUACC 400)

BUMKT 401-402 Internship (See BUACC 401-402) **3 credits each**

BUMKT 403-404 Cooperative Education **(See page 26)** **3 credits each**

FINANCE

BUFIN 181 Introduction to Investments and Securities Markets (B) 3 credits
Introduction to the stock market, its regulations and operations. Some attention is given to other negotiable instruments and their markets.

BUFIN 201 Principles of Finance: Money and Banking (B, P) **3 credits**
An investigation of the role played by money and financial institutions, such as the Federal Reserve System, in the functioning of the US economy. Emphasizes the implementation of monetary policy via the financial system to achieve economic stabilization. *Prerequisite: ECON 106.*

BUFIN 304 Corporate Finance (B) **3 credits**
An analysis of the corporation from its beginning to the determination of its capitalization and capital structure. Also considers decisions related to the uses of alternate sources of funds. *Prerequisite: BUACC 104; BUFIN 201*

COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Lisa Olivieri, SSJ, Ph.D., Assistant Professor of Computer Science, Chair
Chafika Moussaoui, M.S., Instructor in Computer Science
Ralph Swan, Ph.D., Assistant Professor of Applied Technology, Coordinator of Graduate Program in Applied Technology

The Computer Science and Information Technology department offers two undergraduate majors: *Computer and Information Sciences (CIS)*, and *Computer and Information Technology (CIT)*. In conjunction with the graduate *Applied Technology* program, qualified students can participate in a five-year program in which they receive a Bachelor's degree in CIS or CIT and a Master's degree in Applied Technology.

The *Computer and Information Technology* major prepares students for the world of technology by introducing them to a variety of hardware and software technologies available today. This major presents sufficient background and experience in problem solving to enable students to learn and adapt to new technologies they will meet in the workplace. Students in this major can focus on one of four areas: multimedia design, programming, video production, or web development. These programs provide solid preparation for students interested in pursuing graduate study in areas of applied technology.

The major in *Computer and Information Sciences* is designed to prepare students for graduate study and/or careers in computer science and related fields. Students take a variety of courses that introduce them to programming concepts, data structures, computer architecture, networking and operating systems. Students participate in an internship that enables them to apply their academic knowledge and gain experience in the workplace.

The department also offers minors in *Computer Science*, *Information Management*, and *Computer and Information Technology*.

MAJOR IN COMPUTER AND INFORMATION SCIENCES

■ **Requirements** – *45 credits distributed as follows:*

- **Prerequisite:** COMSC 150 Technology for the Inquiring Mind
- **Computer Science** (33 credits)

COMSC	101	Introduction to Computer Science I
COMSC	201	Introduction to Computer Science II
COMSC	250	Data Structures
COMSC	270	Introduction to Operating Systems
COMSC	280	Computer Science: History, Trends and Ethical Issues
COMSC	300	Application Development and Design
COMSC	310	Research Methods
COMSC	350	Computer Architecture & Logic Design
COMSC	351	Seminar in Computer and Information Sciences
COMSC	356	Systems Analysis and Design
COMSC	401	Internship in Computer Science

- **Choose two of the following:** (6 credits)

COMSC	301	Programming Languages
COMSC	321	Communications and Networks
COMSC	410	Special Topics in Computer Science

- **Computer Applications** (6 credits)

COMAP	230	Information Systems for Organizations
COMAP	280	Information Management

- **Also Required:**
- **Mathematics** (6 credits)

MATH	218	Discrete Methods in Mathematics
MATH	196	Mathematics for Management and the Social Sciences
	or	
MATH	203	Analytic Geometry & Calculus I

- **Recommended:**

MATH	204	Analytic Geometry & Calculus II
PHYS	108-109	Physics for Life
		or
PHYS	121-122	Principles Physics

MAJOR IN COMPUTER AND INFORMATION TECHNOLOGY

■ **Requirements** – *43-45 credits distributed as follows:*

- **Computer Science** (9 credits)

COMSC	150	Technology for the Inquiring Mind
COMSC	260	Applied Operating Systems
COMSC	280	Computer Science: History, Trends and Ethical Issues

- **Computer Applications** (9 credits)

COMAP	201	Web Page Design: Programming in xHTML
COMAP	230	Information Systems for Organizations
COMAP	280	Information Management

- **Computer Technology** (13 credits)

CIT	201	Introduction to Visual Basic Programming (4 credits)
CIT	310	Research Methods in Computer and Information Technology
CIT	351	Seminar in Computer and Information Technology
CIT	401	Internship in Computer and Information Technology

Choose one of the following tracks:

- **Web Development Track** (13 credits)

COMAP	195	Computer Graphics with PhotoShop (3 credits)
COMAP	205	Advanced Web Page Design (3 credits)
COMAP	221	Video Design and Production I (4 credits)
COMAP	320	Presentations in Multimedia (3 credits)

- **Multimedia Design Track** (12 credits)

COMAP	170	Computer Graphics Design (3 credits)
COMAP	195	Computer Graphics with PhotoShop (3 credits)
COMAP	210	Desktop Publishing and Graphics Design (3credits)
COMAP	320	Presentations in Multimedia (3 credits)

- **Programming Track** (12 credits)

COMAP	205	Advanced Web Design (3 credits)
COMSC	101	Introduction to Computer Science I (3 credits)
COMSC	201	Introduction to Computer Science II (3 credits)

Choose one other COMAP or COMSC elective (3 credits)

- **Video Production Track** (14 credits)

COMAP	170	Computer Graphics Design (3 credits)
COMAP	221	Video Design and Production I (4 credits)
COMAP	225	Video Design and Production II (4 credits)

One other COMAP or COMSC elective or a GRAT Video Course

- **Also required:**

MATH	101	Precalculus
		or
MATH	215	Math for Liberal Arts.

- **Recommended:**

SCI	110	Biology of Color
ARTST	111	Design I: Principles of Design

MINOR IN COMPUTER SCIENCE

■ Requirements *(18 credits)*

COMSC	101	Introduction to Computer Science I
COMSC	201	Introduction to Computer Science II
COMSC	250	Data Structures
COMSC	350	Computer Architecture and Logic Design

Two higher-level computer science courses

MINOR IN INFORMATION MANAGEMENT

■ Requirements *(18 credits)*

- **Computer Science** (12 credits)

COMSC	101	Introduction to Computer Science I
COMSC	201	Introduction to Computer Science II
COMSC	250	Data Structures
COMSC	350	Computer Architecture and Logic Design

- **Computer Applications** (6 credits)

COMAP	230	Information Systems for Organizations
COMAP	280	Information Management

MINOR IN COMPUTER AND INFORMATION TECHNOLOGY

■ Requirements *(18 credits)*

- **Computer Science** (6 credits)

COMSC	150	Technology for the Inquiring Mind
COMSC	260	Applied Operating Systems

- **Computer Applications** (6 credits)

COMAP	201	Web Page Design: Programming in xHTML
COMAP	230	Information Systems for Organizations

- **6 credits from the following:**

COMAP	170	Computer Graphics Design
COMAP	195	Computer Graphics with Photoshop
COMAP	205	Advanced Web Page Design
COMAP	210	Desktop Publishing and Graphics Design
COMAP	221	Video Design and Production I
COMAP	320	Presentations in Multimedia
CIT	201	Introduction to Visual Basic Programming (4 credits)

COMPUTER APPLICATIONS (COMAP)

Course descriptions that are designated with a (P) fulfill the Problem Solving *Ways of Knowing* requirement of the Core Curriculum.

COMAP 101 Introduction to Computer Organization **1 credit**
This course introduces the student to Microsoft Windows 2000. Students learn many of the fundamental concepts of managing files, using Windows Explorer, and customizing and navigating the desktop environment. *Fulfills the computer organization module of the Computer Competency*

COMAP 102 Introduction to Word Processing **1 credit**
This course introduces the student to Microsoft Word 2000. The student learns the basic components of word processing as well as some advanced features including creating tables and inserting graphics. *Fulfills the word processing module of the Computer Competency. Prerequisite: COMAP 101 or equivalent*

COMAP 103 Introduction to Excel **1 credit**
This course introduces the student to Microsoft Excel 2000. The student learns the basic components of creating a spreadsheet as well as some advanced features. *Fulfills the spreadsheet module of the Computer Competency. Prerequisites: COMAP 101 & 102 or equivalent*

COMAP 142 Introduction to Internet Research **1 credit**
Students learn how to perform searches on the Internet using various databases and search engines. Students also learn advanced email features, including how to create an address book and how to send an attachment. *Fulfills the Internet module of the Computer Competency Prerequisites: COMAP 101 & 102 or equivalent*

COMAP 160 Introduction to PowerPoint **1 credit**
Students gain proficiency in developing computer-based presentations using the software program PowerPoint by Microsoft. *Fulfills the presentation software module of the Computer Competency. Prerequisites: COMAP 101 & 102 or equivalent*

COMAP 170 Computer Graphics Design **3 credits**
Through the use of computer graphics technology, students will learn how to use a graphics software program, such as CorelDRAW, to create original artwork, edit clipart, and generate unusual and stylized text. Emphasis will be placed on the use of vector/object-oriented software as a design tool in the fields of graphics and fine art. Also included will be discussion regarding the considerations necessary for final output including color models, resolution, inkjet and offset printing and preparation for the Web. *Prerequisites: COMAP 101 &102 or equivalent*

COMAP 180 Microsoft Access Database Development **1 credit**
This course introduces students to the development of a database using Microsoft Access. Students learn how to create and modify database tables, reports and queries. Students learn how to use the features of a database to analyze information. *Fulfills the database module of the Computer Competency. Prerequisites: COMAP 101 &102 or equivalent*

COMAP 195 Computer Graphics with Photoshop **3 credits**
Students learn the essentials of image enhancement by developing the understanding and skills needed to edit raster/bitmapped graphics. Students will explore the basic concepts of color correction, photo retouching, compositing (photo montages), photographic manipulation, digital darkroom techniques and the preparation of images for use on the World Wide Web. Image resolution, color models and printing issues are also covered. *Prerequisites: COMAP 101, 102 & 142 or equivalent*

COMAP 201 Web Page Design: Programming in xHTML **3 credits**
Students learn xHTML code to develop web pages and create web pages using Microsoft FrontPage. Students examine types of web pages available on the Internet. *Prerequisites: COMAP 101, 102, & 142 or equivalent. Recommended: COMAP 195*

COMAP 205 Advanced Web Design **3 credits**
Students learn current advanced web techniques including the incorporation of Javascript or VBscript into Web pages. The course includes advanced xHTML coding and features such as cascading style sheets. Emphasis will also be placed on proper and effective web design. *Prerequisite: COMAP 201*

COMAP 210 Desktop Publishing and Graphics Design **3 credits**
Students learn the theory and techniques of desktop publishing. The software program used for this course is QuarkXPress which is the leading layout and design software for publishers. *Prerequisites: COMAP 101, 102, and 142. Recommended: COMAP 170 or COMAP 195*

COMAP 221 Video Design and Production I **4 credits**
This course provides a basic "hands on" introduction to video production, with emphasis on learning how to use the camera and related equipment, developing visual stories, writing a treatment and pre-production organizing and planning. Students will focus on understanding light, becoming familiar with production terms and equipment, improving shot design, planning for camera movement and placement, "shooting to edit", and harnessing the power of sound. Various aesthetic as well as ethical concerns are covered.

COMAP 225 Video Design and Production II **4 credits**
Students increase their mastery of planning and production, develop treatments, write a script, develop shot lists, write location reports, and learn to organize and create production books. Students shoot and edit to increase their use of sophisticated non-linear digital editing techniques. *Prerequisite: COMAP 221*

COMAP 230 Information Systems for Organizations **3 credits**
This course provides an introduction to communications systems. Students consider local information exchanged through global networking including e-mail, bulletin boards, teleconferencing and interactive global dialogues. Additional topics incorporate the study of communications hardware and software and the ethical and moral issues emanating from the communications explosion. *Prerequisites: COMAP 101, 102, 142, and COMSC 150*

COMAP 280 Information Management (BUADM 280) **3 credits**
Students explore the technology of database systems from on-line networks through classical, hierarchical systems, and relational and distributed databases. This course introduces students to the fundamentals of information management using Oracle, from simple applications through database programming and Structured Query Language. This course includes an analysis and evaluation of social and ethical issues stemming from the proliferation of databases. Recommended for students planning a career in business and information sciences. *Prerequisite: COMAP 180*

COMAP 320 Presentations in Multimedia **3 credits**
Students develop a multimedia production in which text, graphics, audio and video are combined in an original creation. Students acquire skill in the analysis and application of presentation software using Macromedia Director. This course enables students to develop modes of communication and presentation that utilize the potential of developing technologies. *Prerequisite: COMAP 170 or COMAP 195; Recommended: COMAP 221*

COMPUTER AND INFORMATION SCIENCES (CIS)

COMSC 101 Introduction to Computer Science I (P) **3 credits**
This course provides a first experience in computer programming and prepares the student for further study in the field. Fundamental concepts and the elements of programming form the central themes of the course. Students develop proper programming techniques while learning to program in a current popular high level language, such as Java.

COMSC 150 Technology for the Inquiring Mind (P) **3 credits**
This course provides a challenging introduction to technology for students interested in a major or minor in computer and information sciences or related fields. Topics include operating systems, elements of computer architecture, fundamentals of computer programming, networking and ethical issues related to technology. *This course is taught in a hybrid format. Prerequisites: COMAP 101, 102, 142*

COMSC 201 Introduction to Computer Science II (P) **3 credits**
Students continue the development of programming skills acquired in COMSC 101, with emphasis on algorithms, data organization, information structures, files and lists. *Prerequisite: COMSC 101*

COMSC 250 Data Structures (P) **3 credits**
This course focuses on advanced programming methodologies and procedural abstractions based on the analysis of data structures and algorithms. Topics include the analysis and application of basic data structures such as stacks, queues, lists and trees.

Methods include the use of sorting and searching algorithms on various implementations of lists and the use of recursion as a control abstraction as well as the comparison of these algorithms using "Big-O" notations. *Prerequisite: COMSC 201*

COMSC 260 Applied Operating Systems **3 credits**
This course provides a hands-on introduction to various operating systems such as Windows NT, UNIX, and Macintosh. Students are introduced to the fundamental concepts underlying all operating systems and learn how to implement these concepts on each system. *Prerequisite: COMSC 150*

COMSC 270 Introduction to Operating Systems (P) **3 credits**
Students are introduced to the design and function of operating systems. The operating system is viewed at the logical level in the architecture of a computer system. Students examine how the operating system provides such services as simplified I/O interface, file systems, management of shared resources, and memory management. *Prerequisites: COMSC 250*

COMSC 280 Computer Science: History, Trends & Ethical Issues **3 credits**
This course provides an in-depth study of the history of computer science, explores current and future developments in computer science, and examines ethical issues that challenge society as a result of computer technology. *Prerequisite: COMSC 150*

COMSC 300 Application Development and Design (P) **3 credits**
This course focuses on application development techniques using a current software language. Students learn techniques of developing a large application in a team environment. *Prerequisite: COMSC 250.*

COMSC 301 Programming Languages (P) **3 credits**
This course examines the practical and theoretical aspects of programming languages. Topics include representation of data types, sequence control, and run-time storage and management. *Prerequisite: COMSC 250.*

COMSC 310 Research Methods **3 credits**
This course provides an examination of problem solving research methods. Students learn how to interpret, analyze and integrate significant data. *Completed during Senior year.*

COMSC 321 Communications and Networks (P) **3 credits**
Students examine current methods and practices in the use of computer networks. Topics include network architecture and communication protocols, network elements, datalink, switching and routing, end-to-end protocols, LANs, and data security. *Prerequisite: COMSC 270 and COMAP 230.*

COMSC 350 Computer Architecture and Logic Design I (P) **3 credits**
Students develop an understanding of the organization and architecture of computer systems through study of the logical and engineering principles governing the internal operations of the computer. Topics include gates, circuits, combinational logic, sequential logic, computer arithmetic, control unit and arithmetic logic unit, and an introduction to assembly language. *Prerequisite: COMSC 250.*

COMSC 351 Seminar in Computer and Information Sciences **3 credits**
Students select readings selected from areas of current interest and research not covered in structured courses. Students select an area of interest for research and presentation. *Prerequisite: At least a grade of "C" in COMSC 310.*

COMSC 356 Systems Analysis and Design (P) **3 credits**
This course provides a study of the information system life cycle and the use of systems design methodologies to develop single and multi-user systems. Topics include project management techniques, security techniques, and system testing and implementation. *Prerequisite: COMSC 250; Recommended: COMSC 300.*

COMSC 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

COMSC 401 Internship in Computer and Information Sciences **3 credits**
An internship provides the computer and information sciences major with the opportunity to experience the role of the information resource person in a business or other organization. *Completed during junior or senior year.*

COMSC 410 Special Topics **3 credits**
This course covers current topics in computer science, such as, artificial intelligence, robotics, and human computer interaction. *Prerequisite: COMSC 250*

COMPUTER AND INFORMATION TECHNOLOGY (CIT)

CIT 201 Introduction to Programming in Visual Basic (P) **4 credits**
This course will introduce the student to the Visual Basic programming language. Students will attend class four hours per week, including a significant amount of laboratory time. No previous programming knowledge is required. *Prerequisite: Completion of Computer Proficiency. Recommended: COMSC 150*

CIT 310 Research Methods in Computer and Information Technology **3 credits**
This course provides an examination of problem solving research methods. Students learn how to interpret, analyze and integrate significant data. *Completed during senior year.*

CIT 351 Seminar in Computer and Information Technology **3 credits**
Students discuss readings on current technological advancements. Students research an area of interest in the field of technology and use current technology to present their research. *Prerequisite: At least a grade of "C" in CIT 310.*

CIT 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

CIT 401 Internship in Computer and Information Technology **3 credits**
Students experience fieldwork for students in the area of information management, webmaster assistant, web page development, computer hardware, computer software or technology trouble shooter. *Completed during junior or senior year.*

EDUCATION

Carol M. Pate, Ed.D. Assistant Professor of Education, Chair
Richard Black, Ed.D., Assistant Professor of Education
Dominic Cotugno, Ed.D. Associate Professor of Education
Margery Covello, Ed.D. Assistant Professor of Education
Melanie Cohen Goodman, Ph.D., Assistant Professor of Education
Jessica Kahn, Ph.D. Professor of Education
Honor Keirans, SSJ, Ed.D. Associate Professor of Education
Margaret Vogelson, Ph.D. Professor of Education

Chestnut Hill College offers a BS degree with certification, approved by the Pennsylvania Department of Education, in the following areas:

- **Early Childhood Education:** Nursery through Grade 3
- **Early Childhood and Elementary Education:** Nursery through Grade 6
- **Elementary Education:** Kindergarten through Grade 6
- **Five Year Combined BS/M.Ed. Degree** program in Elementary Education with dual certification in Elementary and Special Education

Chestnut Hill College also offers Pennsylvania Department of Education Secondary Education certification in the following major areas:*

- French, Spanish, Latin **(Secondary Education, Grades K through 12).**
- Biology, Chemistry, English, Mathematics, General Science and Citizenship **(Secondary Education, Grades 7 through 12).**

  * Students select subject as major area and identify Secondary Education as a minor.

Other Credential Programs

- * Montessori Education: Preschool (3-6 years old) through the American Montessori Society
  * This is combined with a BS in early childhood or elementary education

Sponsored Campus Activities

- Kappa Delta Epsilon

The Department of Education's **Teacher Education Program** combines a sound liberal arts education with specific training in educational and child psychology, in curriculum methods and materials, and in extensive fieldwork. The mission of the Department of Education is to build on the intellectual and holistic foundation of the Mission of Chestnut Hill College by helping students develop the professional skills and attitudes to educate a diverse community of learners. We seek to foster a deep commitment to teaching and life long learning.

All programs leading to certification are approved by the Pennsylvania Department of Education (PDE). Assessments of students' competencies are made at the time of admissions, during participation in fieldwork and student teaching experiences. **Students must apply and be accepted for the teacher education program in the Education Department with an overall GPA of 3.0.** Students are required to take and pass the Pre-Professional Skills Tests (PPSTs) as part of the admission process. Following the successful completion of course work and PDE required testing, students will be eligible to apply for the Pennsylvania Instructional I Certificate. Applicants for certification are required to comply with those directives of PDE in place at the time of their application. (The year following graduation is called the **Induction Year,** and the new teacher will teach in a school district with an approved induction plan.)

NOTE: The Education Department has reconfigured its programs to meet the specific program guidelines and general requirements required by the PDE. Students will demonstrate their content knowledge, performance in fieldwork experiences and student teaching through their portfolios and evaluation by cooperating teachers and faculty members.

Sponsored Campus Activities: The Education Department of CHC sponsors a number of on and off-campus activities, some more informal than others. We also sponsor **Kappa Delta Epsilon,** an honorary professional society, the purpose of which is to promote the cause of education by fostering a spirit of fellowship, high standards of scholastic attainment, and professional ideals among its members. CHC's Kappa Delta Epsilon chapter faculty sponsor is Honor Keirans, SSJ, Ed.D. For more information on criteria for initiation and membership, please contact the Education Department.

EXIT PROGRAM COMPETENCIES and CRITERIA:
Elementary, Early Childhood and Secondary Education

All students in the elementary, early childhood or secondary education certification programs must be able to cognitively, physically and socially meet specific competencies prior to exiting from the program. Cognitive abilities refer to maintaining an appropriate GPA and successful completion of all coursework and experiences. Physical capabilities refer to the ability to maintain a safe and supportive learning environment for children. Social capabilities refer to the ability of a student to teach with poise, confidence and control in a classroom environment, as well as to develop and maintain professional relationships. The Education Department assesses these capabilities in a variety of ways. First, students declaring education as a major need to meet regularly with their advisors keep apprised of the requirements and GPA status prior to making application to the department. Beginning in the sophomore year, faculty members teaching education courses will evaluate student's beginning teaching abilities through classroom presentations (simulated teaching activities) and other course-related projects. These classroom presentations will be part of the portfolio process of documentation, beginning with Stage I at the end of sophomore year. When students make application to the education department, they will submit the evaluations of classroom presentations as part of the portfolio documentation. Students whose application to the education department is denied may appeal to a faculty panel that will review the information and make a final decision.

1. The teacher understands the central concepts, tools of inquiry, and structures of the discipline the teacher teaches and can create learning experiences that make these aspects of subject matter meaningful for all students.
2. The teacher understands how all children learn and develop, and can provide learning opportunities that support their intellectual, social, career and personal development.
3. The teacher understands how students differ in their ability and approaches to learning and creates opportunities that foster achievement of diverse learners in the inclusive classroom.
4. The teacher understands and uses a variety of instructional strategies, including interdisciplinary learning experiences, to encourage students' development of critical thinking, problem-solving and performance skills.
5. The teacher uses an understanding of individual and group motivation and behavior to create a learning environment that encourages positive social interaction, active engagement in learning and self-motivation.
6. The teacher uses knowledge of effective verbal, nonverbal, and media communication techniques, supported by appropriate technology to foster active inquiry, collaboration, and supportive interaction in the classroom.
7. The teacher plans instruction based on knowledge of subject matter, students, the community and curriculum goals.
8. The teacher understands and uses formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social and physical development of the learner
9. The teacher thinks systematically about practice, learns from experience, seeks the advice of others, draws upon educational research and scholarship and actively seeks out opportunities to grow professionally.
10. The teacher contributes to school effectiveness by collaborating with other professionals and parents by using community resources, and by working as an advocate to improve opportunities for student learning.

Exit Criteria

- Completion of all program coursework, field experiences and student teaching in the Certification program.
- GPA of 3.0 or higher.
- Successful completion of instructional exit competencies determined by the student teaching evaluation and student portfolio
- Passing of all appropriate Praxis Series exams required by PDE.

GENERAL REQUIREMENTS FOR ADMISSION TO THE CERTIFICATION PROGRAMS

Candidates for Early Childhood, Elementary Education and Secondary Education should apply to the Department for formal acceptance to the certification program after completion of 48 credits and not later than 60 credits. Students who apply at a later time may need to take courses in summer sessions and/or take courses for an additional semester in order to complete the program.

The formal application process, (instructions are available in the Department Chair's office), includes submission of the following items: letters of recommendation; documentation of a minimum overall grade point average of 3.0 at the time of application; documentation of 10 hours of observation of or participation in educationally related settings; stage one portfolio development; documentation of passing the three PPST tests at time of application to the Certification program and successful completion of designated courses. Grades of "C" or higher are required in **English 101** and **Mathematics 153 and 154.** These courses may be repeated only once to attain a grade of "C." A GPA of 3.0 in all major courses is required. **NOTE: Requirements for transfer students seeking admission to the certification program will be determined on an individual basis by their advisor.**

In sophomore and junior years, Education majors are required to participate in field experiences, and in senior year, to complete the student teaching requirement. An applicant for student teaching in Early Childhood, Elementary, Secondary, and Montessori Education must have the approval of the Department, a 3.0 general average and a 3.0 average in the major.

A student interested in becoming a Montessori preschool teacher may also take additional course work in the College's Montessori Preprimary Teacher Preparation Program. Successful completion of this program leads to a Preprimary Credential from the American Montessori Society, usually in conjunction with the state certification program in Early Childhood Education. Students enrolled in other majors may also take additional course work in Montessori Education.

PORTFOLIO REQUIREMENTS

The development of a portfolio is considered a work in progress. Beginning in the sophomore year, students will gather evidence for review by their advisors and in subsequent years by their practicum supervisors and their student teacher advisors. The sophomore and junior year portfolio criteria have been configured to meet the PDE's specific program content, performance and professionalism guidelines for elementary, early childhood or secondary education. The student teaching portfolio has been configured to demonstrate the exit competencies that reflect an integration of the pre-services experiences. This final portfolio also serves as part of the professional application process when seeking a teaching position.

ELEMENTARY EDUCATION:

■ Requirements for a major

- **Sophomore Year:** Submission of formal application to the Department. The application includes:

- Recommendations of two instructors (if possible, one should be a member of the Education Department)
- Documentation of a minimum of 10 hours of observation, work and/or tutoring in a school setting
- Documentation of passing the required state tests at time of application to the department
- Documentation of "C" or higher in the required Math courses and two English courses (One composition, one in literature)
- Stage I Portfolio
- Transcript indicating GPA of 3.0 overall at the time of application as well as a GPA of 3.0 in the following courses required for the major:

EDUC	222	Foundations of Education
EDUC	202	Educational Psychology
PSYCH	103	Child Psychology
EDUC	210	Reading/Children's Literature
EDUC	211	Writing/ Rubrics

- **Professional Junior Year** (21 credits):

EDUC	216	Elementary Methodology I
EDUC	208	Practicum I*
EDUC	217	Elementary Methodology II
EDUC	209	Practicum II*
EDUC	246	Ed. Technology

EDUC	250	Intro to Special Education
EDUC	265	Strategies for Teaching Math

- For students in the Elementary Program, Practicum I and Practicum II will involve field experiences in grades K - 6.
- Stage II Portfolio
- **Professional Senior Year** (15 credits):

EDUC	300-301	Student Teaching and Student Teaching seminar
EDUC	302	Senior Seminar
		Education Elective
		Stage III Portfolio

EARLY CHILDHOOD EDUCATION:

■ Requirements for a major

- **Sophomore Year:** Submission of formal application to the Department. The application includes:
- Recommendations of two instructors (if possible, one should be a member of the Education Department)
- Documentation of passing the required state tests at time of application to the department.
- Documentation of "C" or higher in the two required Math courses and two English courses (One composition, one in literature)
- Stage I Portfolio
- Transcript indicating GPA of 3.0 overall at the time of application as well as a GPA of 3.0 in the following courses required for the major:

EDUC	222	Foundations of Education
EDUC	202	Educational Psychology
PSYCH	103	Child Psychology
EDUC	210	Reading/Children's Literature
EDUC	211	Writing /Rubrics

- **Professional Junior Year** (18 credits):

EDUC	207	Practicum I*
EDUC	208	Practicum II*
EDUC	246	Ed. Technology
EDUC	250	Intro to Special Education
EDUC	239-240	Early Childhood Curriculum

- For students in the Early Childhood Program, Practicum I and Practicum II will involve field experiences in grades N-3.
- Stage II Portfolio
- **Professional Senior Year** (15 credits):

EDUC	300-301	Student Teaching and Student Teaching seminar
EDUC	302	Senior Seminar
EDUC	243	Administration and Supervision of Early Childhood Education Programs
		Stage III Portfolio

ELEMENTARY/EARLY CHILDHOOD EDUCATION:

■ Requirements for a Dual Major

- **Sophomore Year:** Submission of formal application to the Department. The application includes:
- Recommendations of two instructors (if possible, one should be a member of the Education Department)
- Documentation of passing the required state tests at time of application to the Department
- Documentation of "C" or higher in the two required Math courses and two English courses (One composition, one in literature)
- Stage I Portfolio

- Transcript indicating GPA of 3.0 overall at the time of application as well as a GPA of 3.0 in the following courses required for the major:

EDUC	222	Foundations of Education
EDUC	202	Educational Psychology
PSYCH	103	Child Psychology
EDUC	210	Reading/Children's Literature
EDUC	211	Writing /Rubrics

- **Professional Junior Year** (30 credits):

EDUC	216	Elementary Methodology
EDUC	208	Practicum I*
EDUC	217	Elementary Methodology
EDUC	209	Practicum II*
EDUC	246	Ed. Technology
EDUC	250	Intro to Special education
EDUC	239-240	Early Childhood Curriculum
EDUC	241	Special Topics
EDUC	265	Strategies for Teaching

- Students in the Early Childhood/Elementary program will have one Practicum experience in grades N-3 and one experience in grades 4-6.
- Stage II Portfolio
- **Professional Senior Year** (15 credits):

EDUC	300-301	Student Teaching and Student Teaching seminar
EDUC	302	Senior Seminar
EDUC	243	Administration and Supervision of Early Childhood Education Programs
		Stage III Portfolio

FIVE-YEAR COMBINED B.S./M.Ed. DEGREE PROGRAM IN EDUCATION WITH DUAL CERTIFICATION IN ELEMENTARY AND SPECIAL EDUCATION

The B.S./M.Ed. program in Elementary Education, with Dual Certification in Elementary and Special Education, provides the opportunity for exceptionally qualified students to earn both a Bachelor of Science and Master of Education degree in five years. The second semester of their senior year, qualified students will take two graduate courses and receive graduate credit towards their master's degree. Upon graduation, students need to take only 27 additional credits for their master's degree. Students in the five-year program will receive specific advising to assist them to complete all requirements in a timely fashion.

ADMISSION REQUIREMENTS

Candidates for admission to the five-year program should declare their intent to the Department of Education as soon as possible so that an appropriate advisor can be assigned. All regular requirements for admission to the Department of Education must be followed (see above). Upon successful admissions to the Department of Education, candidates will follow the advisement schedule to ensure that the final semester of their senior year includes the two graduate-level special education courses.

SPECIAL EDUCATION - MINOR

The Minor in Special Education is open both to education majors (Early Childhood, Early Childhood /Elementary Education, Elementary) and to students majoring in other disciplines who are seeking Secondary Certification.

The minor does not constitute Certification in Special Education.

■ **Requirements for a minor** – *18 credits*

EDUC	250	Introduction to Special Education
EDUC	251	Assessment and Education of Exceptional Students
PSYCH	103	Child Psychology
EDUC	202	Educational Psychology

- **Two of the following:**

EDUC	252	Education Practice for Student w/ Physical/Health Disabilities.
EDUC	253	Education Practice for student w/Cognitive Disabilities.
EDUC	254	Education Practice for Students w/ Learning Disabilities and/or Emotional Disabilities.

SECONDARY SCHOOL EDUCATION CERTIFICATION

Students who desire to obtain a PA Department of Education teaching certification in Biology, Chemistry, Citizenship Education, English, General Science, French, Latin, Spanish or Mathematics **must declare a Minor in Secondary Education.** Students are to obtain the appropriate form and have it signed by the Education Department. Students who are registered for a Secondary Minor are expected to complete all courses for Secondary Certification including student teaching. Students may complete student teaching after graduation but the minor will not be included on the transcript without successful completion of student teaching.

■ **Requirements** – 23 credits in Education in conjunction with a major in Biology, Chemistry, English, French, Mathematics, Spanish; or with a program in Latin, General Science, or Citizenship.

- **Sophomore Year:** Submission of formal application to the Certification program. The application includes:

- Recommendation of two instructors (if possible, one should be a member of the Education Department)
- Documentation of passing the required state tests at time of application to the Certification program
- Documentation of 2 Math courses and two English courses
- Stage I Portfolio
- Transcript indicating GPA of 3.0 overall at the time of application as well as a GPA of 3.0 in the following courses required for the major:

- **These courses may also be taken at the graduate level by post-baccalaureate students.**

PSYCH	202	Educational Psychology
EDUC	250	Introduction to Special Education
EDUC	222	Foundations of Education
EDSEC	311	Student Teaching in Secondary School
EDSEC	312	Student Teaching Seminar
EDSEC	315	General Methods
EDSEC	316	Reading in the Content Areas
EDSEC	317	Junior Practicum in Major*

- Secondary Education students are required to take a practicum (3 credit hours) within the major field

Biology:	BIO	317	Special Methods
French:	FRLN	317	Special Methods for Teaching Foreign Languages
Spanish:	FRLN	317	Special Methods for Teaching Foreign Languages
Latin:	FRLN	317	Special Methods for Teaching Foreign Languages
Chemistry	CHEM	317	Special Methods in Chemistry
General Science	BIO	317	Special Methods in Biology
	or		
	CHEM	317	Special Methods in Chemistry
English	EDSEC	317	Special Methods in English and Citizenship
Citizenship	EDSEC	317	Special Methods in English and Citizenship
Mathematics	MATH	317	Special Methods in Mathematics

MONTESSORI SPECIALIZATION

Michelle Burns, M.Ed., Director

- Full-time Early Childhood Education/Montessori students must take courses during one summer session in order to complete degree requirements in four years. Students in this major do not take Math 154.
- Students seeking Montessori Certification must pay the American Montessori Society membership fee and MACTE

(Montessori Accreditation Council for Teacher Education) fee effective at the time of internship.
- Students specializing in Montessori Education will be charged an additional supply fee per course.

■ **Requirements for an American Montessori Society Early Childhood Credential:**

EDMON	225	Philosophy and Educational Theory
EDMON	228	Everyday Living/Art
EDMON	231	Sensorial/Music
EDMON	238	Mathematics
EDMON	241	Language
EDMON	242	Natural and Social Sciences
EDMON	305-306	Montessori: Practicum/Internship
EDMON	307-308	Montessori: Seminar

EDUCATION

EDUC 202 Educational Psychology (See Psychology 202) **3 credits**

EDUC 207 Practicum: Pre-K **3 credits**
In this fieldwork experience, students will observe and participate in educational activities in a pre-school, nursery or day care center. Students participate in schools/settings for at least two half-days per week.

EDUC 208 Practicum: Early Childhood and Elementary **3 credits**
In this fieldwork experience, students will observe and participate in educational activities in a K-3 classroom. Students participate in school settings for at least two half-days per week.

EDUC 209 Practicum: Elementary **3 credits**
In this fieldwork experience, students will observe and participate in educational activities in an urban school in a grade four through six classroom. Students will explore multicultural implications of the setting and will design a plan to accommodate various learning styles. Participation in school settings for at least two half-days a week is required.

EDUC 210 Reading/Children's Literature **3 credits**
This course presents the theoretical base for how children acquire literacy and develop skills in reading, writing, speaking, and listening, as processes for constructing meaning. A primary focus of the course is to present instructional planning and teaching strategies best designed to accomplish this goal. A second emphasis is an exploration and appreciation of varying genres of children's literature. The two strands of the course are interwoven as students apply their growing knowledge of methodology to the use of literature in the development of instructional units.

EDUC 211 Writing/ Rubrics **3 credits**
In this course students develop instructional strategies in process writing and writing-to-learn, as integral parts of the language arts curriculum in the elementary classroom. The use of literacy portfolios as tools for documenting literacy development is explored from the perspective of current research.

EDUC 216 Elementary Methodology I **3 credits**
This course examines all aspects of planning for instruction including materials, curricular organization, and textbook utilization. Classroom management strategies will be discussed including motivation, grouping, physical layout, climate and discipline. Strands concerning the special methodology of the teaching of Science and the Arts will be introduced. This course will interface with Practicum I, either EDUC 207 or EDUC 208.

EDUC 217 Elementary Methodology II **3 credits**
This course examines the opportunities to extend learning through homework, utilizing community resources, parental involvement and the library. Effective student assessment, through the use of standardization test interpretation, formative and summative evaluation, portfolios and anecdotal records, will be discussed. The creation of multicultural classrooms, understanding gender differences and celebrating diversity will be included. Effective utilization of school support staff will be explored. Included will be strands on methods pertinent to the teaching of Social Studies, Art and Music. This course will interface with Practicum II, either EDUC 208 or EDUC 209. *Prerequisite: EDUC 216.*

EDUC 222 Foundations of Education **3 credits**
In this course, students explore the historical, philosophical and social foundations of education and their relationship to the present day. Additionally, the course provides a framework and tools to analyze, synthesize and evaluate current issues, practices and procedures related to teachers and the factors that influence their teaching.

EDUC 224 Teaching Social Studies **3 credits**
This course introduces the knowledge, skills and values included in social studies. The emphasis is on content and techniques of teaching history and geography in the elementary curriculum, with consideration of the changing nature of social studies and use of technology in social studies instruction. *This course is an elective and taken to support and/or expand social studies content.*

EDUC 225 Teaching Science **3 credits**
The purpose of this course is to strengthen the content background of the elementary school science teacher and to model methods for presenting this content in appropriate ways. Topics include: earth and universe, weather; geology, oceanography; energy and matter; life forms. *This course is an elective and taken to support and/or expand social studies content.*

EDUC 239-240 Curriculum in Early Childhood Education **3 credits each**
This one-year course focuses on the content, methods, and materials involved in programming for young children. Instructional strategies, teacher behaviors, and curriculum trends and their effects on children are presented, as well as programming for infants and toddlers with major emphasis on ages 3-8 years. All pedagogical methodology is related to children's social, emotional, intellectual and physical development.

EDUC 243 Administration and Supervision of Early Childhood Programs **3 credits**
The administration of programs in early childhood cducation is the focus of this course which deals with: methods of parent orientation and participation, staff recruitment, relevant legal issues for administrators of early childhood programs, techniques of supervision, observation of staff and evaluation of children's programs. Students will examine, analyze and develop general operating and personnel procedures.

EDUC 246 Technology In Education **3 credits**
This course introduces students to applications, games, simulations and resource software to enrich and enhance the curriculum. Students develop their own criteria and strategies for the selection and uses of technology across the curriculum and across grade levels.

EDUC 250 Introduction to Special Education **3 credits**
This course is designed to provide a complete overview of Special Education and the children who receive special education services. Areas of concentration include classifications and definitions, patterns of learning, description of assessment and intervention strategies, legislation, and inclusion. To obtain a broader more comprehensive perspective, students will conduct research through journal articles, Internet searches, classroom observations and interviews of parents and/or teachers.

EDUC 251 Assessment and Education of Exceptional Students **3 credits**
In this course, students examine current practices in assessment of students with disabilities, including the use of multicultural assessments. The course includes a review the issues of standardized testing requirements for these students under state and federal regulations and policies. In addition, constructivist assessment practices, such as portfolios, will be examined for use with children with special needs. *Prerequisite: EDUC 250*

EDUC 252 Education Practice for Students w/ Physical /Health Disabilities **3 credits**
Current research regarding the needs of students with physical/health disabilities is examined, including studies concerning communication, visual and hearing deficits. This course will also discuss the education of students with multiple disabilities. Methods for including these students in the regular classroom and examination of the range of the differences and similarities of this student group provide content of the course. Students will develop lesson plans to specify adaptations to existing curriculum or special curriculum needs, such as life skills. *Prerequisite: EDUC 250 and preferably EDUC 251.*

EDUC 253 Education Practice for Students w/ Cognitive Disabilities **3 credits**
Current research regarding the needs of students with mental disabilities is examined, including studies concerning children with brain injury. Methods for including these students in the regular classroom and examination of the range of the differences and similarities of this student group provide content of the course. Students will develop lesson plans to specify adaptations to existing curriculum or special curriculum needs, such as life skills. *Prerequisite: EDUC 250 and preferably EDUC 251.*

EDUC 254 Education Practice for Students w/ Learning and/or Emotional Disabilities **3 credits**
Examination of current research on the needs of students with learning disabilities, attention deficit disorders and emotional/behavioral disorders is the content of this course. Methods for including these students in the regular classroom with lesson plans identifying modifications to the existing curriculum are described. A beginning survey of behavior management techniques will be addressed. *Prerequisite: EDUC 250 and preferably EDUC 251.*

EDUC 265 Strategies for Teaching Mathematics **3 hours**
In this course, students explore the structure of mathematics, sets and numbers, systems of numeration, problem-solving and skill development. The content of elementary school mathematics and the development of strategies for effective teaching of mathematics concepts in K-6 classrooms are emphasized. Students will examine the NCTM Curriculum and Evaluation Standards and Professional Teaching Standards to evaluate curriculum requirements, manipulatives, activities and computer software designed for the elementary school classroom.

EDUC 300 Student Teaching **6 credits**
This course is the culminating field experience, consisting of observation, participation and actual teaching. Assigned to an elementary school either public or private, student teacher is supervised and rated by a cooperating teacher within the school as well as by the college supervisor. *Prerequisites: Senior status, completion of course work in education and approval of department, a GPA of 3.0 and a 3.0 in the major. Students who have not passed the PPST Tests will not be admitted to Student Teaching. EDUC 300 and EDUC 301 must be taken simultaneously.*

EDUC 301 Student Teaching Seminar **3 credits**
This seminar, in support of the field experience, includes weekly conferences to correlate general skills and principles of teaching and learning with the student teaching experience. This course addresses the identification and analysis of problems facing student teachers, and include workshops on selected target areas. The students will compile their final portfolio according to the exit competencies.

EDUC 302 Senior Seminar **3 credits**
In seminar format, students explore areas of current interest and research not included in structured courses. The course is structured to include group discussions, independent study and research. Students present their research in an oral presentation and a written paper. *Senior status required*

EDUC 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

SECONDARY SCHOOL EDUCATION

EDSEC 311 Student Teaching in Secondary School **6 credits**
This experience includes a semester of student teaching in the senior year in a selected public or private middle school, junior high school, or senior high school. Student teaching is under the direct supervision of the cooperating teacher and the college supervisor. Arrangements for student teaching placements are at the discretion of the Education Department in consultation with the Major Department. Student teachers participate in a weekly student teaching seminar at the College. *Prerequisites: EDSEC 210, EDSEC 317, EDSEC 315, and EDSEC 316. Completion of course work in education, approval of major department and Education Department, GPA of 3.0. EDSEC 311 and EDSEC 312 must be taken simultaneously.*

EDSEC 312 Student Teaching Seminar **3 credits**
This seminar, in support of the field experience, includes weekly conferences to correlate general skills and principles of teaching and learning with the student teaching experience. This course addresses the identification and analysis of problems facing student teachers. The students will compile their final portfolio according to the exit competencies.

EDSEC 315 General Methods **3 credits**
This course provides preparation of students in all major departments for general knowledge applicable to secondary school curricula. Pedagogical issues addressed in the course include lesson plan creation, unit preparation, grading, tracking, inclusion and physical and mental health issues.

EDSEC 316 Reading in the Content Areas **1 hour**
This course, for secondary education majors, focuses on metacognitive processes in reading for all disciplines in the junior and senior high school curriculum. Strategies for teaching vocabulary acquisition, comprehension, reasoning and problem solving, and study techniques are presented.

EDSEC 317 Special Methods in the Areas of English and Citizenship **3 credits**
This fieldwork course includes observation and participation in secondary classrooms in both public and private settings. Students participate in a middle school, junior high school, or senior high school setting for at least one-half day per week. Field experience is combined with on-campus course work focused on classroom and instructional management.

For other Special Methods course descriptions, see Major Department.

MONTESSORI SPECIALIZATION

EDMON 225 Montessori Philosophy and Educational Theory **3 credits**
In this course, students explore the educational philosophy that influenced Maria Montessori. A second trend, emanating from science and the scientific method, forms a comparative study of her predecessors in the fields of child development, medicine, anthropology and pedagogy. Background relates the pedagogical principles of the Montessori method to today's educational philosophies and methods.

EDMON 228 Montessori: Everyday Living/Art **3 credits**
A study of the child's environment and culture dictates the exercises that aid inner discipline, self-esteem, a sense of order, and muscular control. Montessori pedagogical principles provide the rationale for demonstration of techniques appropriate for the very young child. *Prerequisite: EDMON 225,* unless exempted by Program Director.

EDMON 231 Montessori: Sensorial/Music **3 credits**
This course provides the rationale and technique undergirding the refinement of sense perceptions as a means of acquiring classified, detailed and accurate knowledge from the environment. Students receive practical insight into the role of movement. *Prerequisite: EDMON 225.*

EDMON 238 Montessori: Mathematics **3 credits**
This course enables the student to assess a child's mathematical readiness, to introduce number with its properties of cardinality and ordinality, to develop the mathematical experience to include the basic operations with the didactic apparatus. This course provides preparation for the intern experience. *Prerequisite: EDMON 225.*

EDMON 241 Montessori: Language **3 credits**
In this course students learn how to design language programs within the prepared Montessori environment. Discussion includes the responsibility of the teacher in the different levels of development that lead to writing and reading, in the sequencing of materials, and in adaptations to specific language needs of children with special emphasis on the urban minority child. *Prerequisite: EDMON 225.*

EDMON 242 Montessori: Natural and Social Sciences/Parent Education **3 credits**
This course provides the student with material for the study of natural and social sciences used in the Montessori classroom appropriate to the age and development of the young child. Students explore the wonders of nature, and the interaction of human beings and nature. Suggestions are included for developing parent-teacher partnerships and mutual responsibilities. *Prerequisite: EDMON 225.*

EDMON 305-306 Montessori: Practicum/Internship **3 credits each**
This fieldwork experience is a two-semester teaching practicum which unites the theory and practice of Montessori education. The course must be taken simultaneously with **EDMON 307-308. NOTE:** Full-time ECE/Montessori students do their Montessori Practicum/Internship during fall and spring semesters of their senior year.

EDMON 307-308 Montessori: Seminar **2 credits each**
This seminar includes monthly conferences to correlate methods and student teaching. The class studies and evaluates observation and participation experiences of seminar members working in Montessori classrooms. Problems and challenges facing student teachers, parents, and administrators are addressed. **Must be taken simultaneously with EDMON 305-306.**

ENGLISH AND COMMUNICATIONS

Agnes Shields, SSJ, Ph.D., Associate Professor of English, Chair
Beryl Gutekunst, Ed.D., Assistant Professor of Communications, Coordinator
Barbara Lonnquist, Ph.D., Associate Professor of English
Rita Michael Scully, SSJ, M.A., Associate Professor of English
Keely McCarthy, Ph.D., Assistant Professor of English and Coordinator of the Writing Program
Judy McClemming, M.S.A., Assistant Professor of Communications

The general objectives of the English Department are threefold: to acquaint students with a variety of literary expression which will deepen their sensibilities and enrich their intellectual lives; to teach students to express their thoughts clearly, persuasively, and correctly in writing and in speech, and to provide technological experience in communications software.

English Literature majors will receive an introduction to the most formative traditions —generic, historical, and critical — of British and American literature. In addition, these students will sharpen their critical skills in courses and seminars that offer detailed examination of an author or a critical problem.

English Literature and Communications majors will find themselves prepared for a great variety of careers. More and more employers and graduate schools are seeking the individual who demonstrates the ability to write and who clearly has an understanding of our cultural background.

Communications and Technology majors will become familiar with the social construction of messages through the principles and applications of interpersonal, intercultural, organizational and mass communication. Majors will become familiar with a variety of hardware and software technologies available today and present enough background and experience in problem solving to enable them to learn and adapt to technologies they will meet in the workplace.

Minors in English Literature and Communications and Technology are available. There is no minor in English and Communications.

Extracurricular Activities: Yearbook, newspaper, and the literary magazine offer English and Communications majors opportunities to express their literary interests and communication skills. The Video Club offers opportunities for all students to prepare and edit video segments for both personal and campus-wide activities.

THERE ARE THREE MAJOR CHOICES:

1. **English Literature Major**
2. **English Literature and Communications Major**
3. **Communications and Technology Major**

- Secondary School Education Certification: See “Education” for Secondary Education Requirements.
- Either English Literature Major or English Literature and Communications Major may be used for Secondary Education Certification.

1. ENGLISH LITERATURE MAJOR (36 credits)

■ **Requirements for a major** – *36 credits including:*

- Two courses in American Literature
- ENG 201 or 202 Shakespeare I or II
- ENG 338 Age of Chaucer
- ENG 360 Senior Seminar

- Three of the following:
  ENG 206 Twentieth-Century British Poetry
  ENG 225 Wit and Wisdom of the 18th Century
  ENG 233 English Romantic Writers
  ENG 238 Victorian Literature

- Four English elective courses

ENGLISH LITERATURE AND COMMUNICATIONS MAJOR

■ **Requirements for a major** – *39 credits including:*

- Two courses in American Literature
- ENG 201 or 202 Shakespeare I or II
- ENG 338 Age of Chaucer
- ENG 360 Senior Seminar

- Three of the following:
  ENG 206 Twentieth-Century British Poetry
  ENG 225 Wit and Wisdom of the 18th Century
  ENG 233 English Romantic Writers
  ENG 238 Victorian Literature

- Five of the following courses:
  ENG 250 Creative Writing
  COM 210 Interpersonal and Organizational Com.
  COM 251 Mass Media & Society
  COM 252 Writing for the Media
  COM 253 Public Speaking
  COM 254 Advertising
  COM 255 Public Relations
  COM 258 Scriptwriting
  COM 265 Writing & Editing for Magazines

■ **Requirements for a minor in English Literature** – *18 credits distributed as follows:*
- One course in American literature.
- One additional upper-level course (200 or above).
- ENG 201 or 202: Shakespeare.
- Three courses in literature from any of the English Department literature offerings.

Course descriptions that are designated with a (L,W, or B) fulfill the Literary, Writing Intensive, or Behavioral *Ways of Knowing* requirement of the Core Curriculum.

ENG 100 Developmental Essay Writing **3 credits**
Students practice writing academic essays based on readings, with individual attention to the development of necessary grammatical and organizational skills. **This course does not satisfy the general education requirement in college writing. Students must register for ENG 101 the following semester. The three credits may be used for elective credits. Offered every Fall.**

ENG 101 College Writing **3 credits**
Concentrates on written exposition, with readings in prose literature. Includes techniques of a research paper and practice in forms of expression. Offered every semester.

ENG 102 The International Tale (L) **3 credits**
Tales from around the world. Analyzes tales as works of art and focuses on ways that geographical settings may influence events within the tales. Offered Fall 2006.

ENG 104 Introduction to Literature (L, W) **3 credits**
Introduction and study of the literary elements of fiction, poetry, and drama. Course provides guidelines for analyzing and writing about literature. Offered when needed.

ENG 105 Advanced College Writing **3 credits**
Instruction furthers skills presented in ENG 101. Students develop academic writing, critical analysis, and research techniques common to all disciplines. For students who qualify, this course fulfills the general education requirement in college writing. **The students who take this course to fulfill the general education requirement must take another course to fulfill the writing intensive component. This course may fulfill the writing intensive component if the student has already taken ENG 101.** Offered every Fall.

ENG 110 Literature into Film (L, W) **3 credits**
Great works of literature translated into great films of the twentieth century. Offered Fall 2004.

ENG 113 The Child in Literature (L, W) **3 credits**
Readings in major writers of fiction, poetry, and autobiography, with focus on portrayals of the child. Offered Spring 2005.

ENG 142 Images of Women in Literature (L, W) **3 credits**
A study of some images of women, e.g., wife, mother, woman-on-a-pedestal, sex object. Studies male and female authors in poetry, fiction, and plays. Offered Spring 2005.

ENG 150 African-American Writers (L) **3 credits**
A study of selected novels, short stories, poems, and plays by important African-American writers. Offered Fall 2005.

ENG 161 American Literature: Irving to Whitman (L, W) **3 credits**
A survey of American writers from Washington Irving to Walt Whitman. Offered Fall 2004.

ENG 162 American Literature: Dickinson to Williams (L, W) **3 credits**
A survey of American writers from Emily Dickinson to Tennessee Williams. Offered Fall 2005.

ENG 163 American Literature: Albee to Tyler (L, W) **3 credits**
A survey of significant American writers emerging between World War II and the present. Offered Spring 2005.

ENG 171 Gothic Tradition in Literature (L) **3 credits**
This course explores the nature and evolution of Gothic literature in the 19th and 20th centuries, with attention to the artistic and political roots of horror fiction. Includes Frankenstein, Dracula, and American literary offspring. Offered Spring 2006.

ENG 175 The Short Story (L) **3 credits**
Readings from British and American authors to appreciate the short story as a literary genre. Attention to style, appeal, and relation to life. Offered when needed.

ENG 190 Modern Japanese Literature (L) **3 credits**
Major Japanese works (in translation) from 1868 to present, with attention to literary history, social conditions, politics, education and religion. Offered Spring 2005.

ENG 200 American Novel (L, W) **3 credits**
Selections from Twain to the present, with emphasis on the major movements in American fiction: Romanticism, Realism, Naturalism. Offered Fall 2004.

ENG 201 Shakespeare I (L) **3 credits**
A study and in-depth analysis of ten plays including histories, tragedies and comedies. Attention to dramatic art, language, and characters. Offered alternate Spring semesters.

ENG 202 Shakespeare II (L) **3 credits**
A study of the sonnets and ten plays not included in Shakespeare I. Offered alternate Spring semesters.

ENG 206 Twentieth-Century British Poetry (L) **3 credits**
Study of British poets, in light of twentieth-century critical history. Stresses form, technique, and varieties of theme. Offered Fall 2007.

ENG 208 The British Novel (L, W) **3 credits**
The British novel from its inception as a new genre through its rise to prominence in the Victorian Era to experimentations in the 20th century. Attention is given to historical influence and style. Offered Spring 2004.

ENG 225 Wit and Wisdom of the Eighteenth Century (L) **3 credits**
English literature from the Restoration to the pre-Romantics with emphasis on satire and the beginnings of the novel. Offered Fall 2004.

ENG 227 Drama: Classical to Modern (L) **3 credits**
An intensive reading of major dramas in British and continental literature. Stresses genres of tragedy and comedy. Offered as needed.

ENG 228 Modern Drama (L) **3 credits**
Intensive reading of major American, British and continental dramatists. Emphasizes historical development and staging of plays. Offered as needed.

ENG 233 English Romantic Writers (L) **3 credits**
A study of the major poems and essays of the period, with attention to theories and origins of the movement. Introduces students to an appreciation of the beauty and emotion in Blake, Wordsworth and Keats. Offered every Fall.

ENG 238 Victorian Literature (L) **3 credits**
Readings in the major works of the period, exclusive of the novel. Relates the literature to the religious, scientific and artistic milieu of the time. Emphasizes the role of the essay, the burgeoning of poetry, and the history of fiction. Offered every Spring.

ENG 241 Women Writers (L, W) **3 credits**
A reading of major works in fiction, drama, and poetry from Jane Austen to the present day. Offered when needed.

ENG 245 The American Theater (L) **3 credits**
A study of plays from O'Neill to the present. Gives attention to the history of early drama in America, with intensive reading of modern plays. Offered Fall 2005.

ENG 248 Irish Literature I (L) **3 credits**
A study of the origins and evolution of the movement. Studies the drama, fiction and poetry of major Irish writers up to the Gaelic Revival. Offered Spring 2006.

ENG 249 Irish Literature II (L) **3 credits**
Study of the drama, fiction and poetry of major Irish writers in the 20th century. Offered when needed.

ENG 250 Creative Writing (W) **3 credits**
Students improve their writing by analyzing themes and techniques of major writers. Students submit their own stories, plays or poems to the class to critique. Does not satisfy the humanities requirement or the English minor requirements. Offered Spring 2006.

ENG 260 Ethnic Voices in United States and Canada (L) **3 credits**
Readings will explore the diverse voices (e.g., Latino, Asian, and Native-American) writing in English in the U.S. and Canada and how their cultural "inflections" enrich the literary history of North America. Offered Spring 2005.

ENG 270 African-American Seminar (L, W) **3 credits**
A study of many works of a single writer (e.g., Toni Morrison, Alice Walker), in order to trace the development of significant African-American writers. Offered Spring 2006.

ENG 280 American Literature of the 1920's: The Lost Generation (L, W) **3 credits**
Analysis of some of the most influential American writers of the 20th century— Ernest Hemingway, F. Scott Fitzgerald, Sinclair Lewis, Eugene O'Neill and others—to determine their contributions to literature. Offered Fall 2005.

ENG 300 James Joyce and Ulysses **3 credits**
A guided reading of an important novel of the 20th century, with special emphasis on its relation to the Ulysses myth as depicted from Homer to the present. Offered Fall 2005.

ENG 338 Age of Chaucer **3 credits**
A study of the *Canterbury Tales* and readings of other medieval works with their relation to art, music and literature. Studies Middle English and its origins. Offered every Fall.

ENG 360 Senior Seminar **3 credits**
A flexible course designed by each student in consultation with the instructor. Offered every Spring.

ENG 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

ENG 401-402 Internship **3 credits each**
Designed to provide practical experience in fields related to the major.

ENG 403-404 Cooperative Education (See page 26)

ENG 410 Intersession: A Sense of Place **3 credits**

Students accompany members of the English and Communications Department to foreign locations (e.g. England, Wales, Scotland, Ireland) to study selected literary works associated with the particular itinerary of the tour. Locations vary each year. Requires a journal and a paper.

MAJOR IN COMMUNICATIONS AND TECHNOLOGY

- **Prerequisites:** COMAP 101 & COMAP 102 or equivalent

■ **Requirements** – *43 credits distributed as follows:*

- **Communications** (24 credits)

COM	110	Introduction to Communications
COM	251	Mass Media and Society
COM	253	Public Speaking
COM	310	Theories and Research Methods
COM	351	Seminar in Communications and Technology
COM	401	Internship

- Two of the following:

COM	210	Interpersonal and Organizational Communication
COM	254	Advertising
COM	255	Public Relations

- One of the following

COM	252	Writing for the Media
COM	258	Scriptwriting
COM	265	Writing and Editing for Magazines

- **Computer Applications** (19 credits)

COMAP	201	Web Page Design: Programming in xHTML
COMAP	221	Video Editing and Production I
COMAP	320	Presentations in Multimedia

- Three of the following:

COMAP	170	Computer Graphics Design I
COMAP	195	Computer Graphics with Photoshop
COMAP	205	Advanced Web Design
COMAP	210	Desktop Publishing and Graphics Design
COMAP	225	Video Design and Production II
COMAP	230	Information Systems for Organizations
COMAP	280	Information Management

- **Recommended**

ARTST	121	Drawing Techniques
		OR
ARTST	131	Painting
COMSC	150	Technology for the Inquiring Mind
HIST	275	Film and History

MINOR IN COMMUNICATIONS AND TECHNOLOGY

- Develops skills in speaking, writing, graphics, and video components of communications.

■ **Requirements** – *18 credits, distributed as follows:*

- **Three of the following:**

COM	110	Introduction to Communications
COM	210	Interpersonal and Organizational Communications
COM	251	Mass Media and Society
COM	253	Public Speaking
COM	254	Advertising
COM	255	Public Relations

- **One of the following:**

COM	252	Writing for the Media
COM	258	Scriptwriting
COM	265	Writing and Editing for Magazines

- **Two of the following:**

COMAP	170	Computer Graphics Design I
COMAP	195	Computer Graphics with Photoshop
COMAP	210	Desktop Publishing and Graphics Design
COMAP	221	Video Design and Production I
COMAP	225	Video Design and Production II
COMAP	230	Information Systems for Organizations
COMAP	280	Information Management

An internship is recommended and may be substituted for a required course only by permission of the advisor for the minor. Also recommended as ***Ways of Knowing*** courses are ARTST 121 or 131, COMSC 150, and HIST 275.

COMMUNICATIONS

COM 102 Student Publications **1 credit**
Workshop approach provides experience in planning and editing publications. Includes introduction to desktop publishing, page layouts, managing budgets, soliciting advertisements, and provides an examination of journalistic photography.

COM 110 Introduction to Communications (B) **3 credits**
An examination of the factors that enhance or inhibit effective communication in a variety of settings including interpersonal, intercultural, group, organizational and mass communication settings. Offered every Fall.

COM 210 Interpersonal and Organizational Communication (B) **3 credits**
A study of the ways in which people generate meaning in interpersonal transactions through the use of language, space, gesture, sexuality, and time. Analyzes dynamics of communication processes within the contexts of organizations including topics such as motivation, leadership, and decision making. Offered every Spring.

COM 251 Mass Media and Society (B) **3 credits**
Investigates books, newspapers, magazines, radio, television and film as mass media. Critically analyzes mass media as a reflection of and an influence on society. Examination of social, political, economic, and technological aspects. Offered every Spring.

COM 252 Writing for the Media (W) **3 credits**
Practice in the basics of journalism, advertising, public relations, and writing techniques for radio and television. Offered Spring 2006.

COM 253 Public Speaking **3 credits**
Practice in writing and presenting speeches of information and other forms of public speaking. Shared criticisms. Psychology of audience response and appeal. Development of skill in using PowerPoint presentations. Offered Spring 2004.

COM 254 Advertising **3 credits**
Covers advertising objectives, research, creative execution, media selection, legal and ethical requirements and budgeting. Students design and present an advertising campaign. Offered every Spring.

COM 255 Public Relations **3 credits**
Study of principles and techniques used in communication between an organization and any individual or audience. Examines media and press releases, promotions and trade shows, community and customer relations. Students plan and present a public relations campaign. Offered every Fall.

COM 258 Scriptwriting (W) **3 credits**
This course presents lessons in basic principles of scriptwriting and offers practice in its various short forms: radio, commercials, announcements, news, sports, features, documentaries, interviews, variety shows, education, playwriting and video scriptwriting. Offered Spring 2004.

COM 265 Writing and Editing for Magazines (W) **3 credits**
Workshop approach provides experience in the basics of magazine writing, editing and publishing: how to analyze a publication, translate an idea into a magazine article, put together a storyboard, and identify software programs appropriate for formal and informal publications. Emphasizes use of advertising in magazine industry. Examines strategies needed to enter the field where creating a network is as necessary as developing a portfolio. Offered Spring 2005.

COM 300 Special Topics **3 credits**
Covers current topics in communication, especially in the area of global and intercultural communication. Offered as needed.

COM 310 Theories and Research Methods **3 credits**
An examination of communication theories and problem solving research. Students learn how to interpret, analyze, and integrate significant data through literature review research.

COM 351 Seminar in Communications and Technology **3 credits**
Students integrate research, questionnaire development, a literature review and the writing of a comprehensive paper with state-of-the-art technologies for presentation.

COM 400 Honors **3 credits**
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

COM 401-402 Communications Internship **3 credits each**
Field work for the qualified student in the areas of broadcasting, print journalism, advertising or public relations at sites approved by the Department Chair or Program Coordinator.

COMPUTER APPLICATIONS

COMAP 170 Computer Graphics Design I **3 credits**
Through the use of computer graphics technology, students will learn how to use the powerful and creative tools in CorelDRAW to create original artwork, edit clipart, and generate unusual and stylized text. Emphasis will be placed on the use of vector/object-oriented software as a design tool in the fields of graphic and fine art. Also included will be discussion regarding the considerations necessary for final output including color models, resolution, inkjet and offset printing and preparation for the Web. *Prerequisites: COMAP 101 & 102 or equivalent.* Offered every Fall.

COMAP 195 Computer Graphics with Photoshop **3 credits**
Students learn the essentials of image enhancement by developing the understanding and skills needed to edit raster/bitmapped graphics. Students will explore the basic concepts of color correction, photo retouching, compositing (photo montages), photographic manipulation, digital darkroom techniques and the preparation of images for use on the World Wide Web. Image resolution, color models and printing issues are also covered. *Prerequisites: COMAP 101 & 102 or equivalent.* Offered every Spring.

COMAP 201 Web Page Design: Programming in xHTML **3 credits**
Students learn xHTML code to develop Web pages and create web pages using Microsoft FrontPage. Students examine types of web pages available on the Internet. *Prerequisites: COMAP 101, 102, & 142 or equivalent. Recommended COMAP 195.* Offered every Spring.

COMAP 210 Desktop Publishing and Graphics Design **3 credits**

Students learn the theory and techniques of desktop publishing. The software program used for this course is QuarkXPress which is the leading layout and design software for publishers. *Prerequisites: COMAP 101, 102 & 142 or equivalent. Recommended: COMAP 170 or 195.* Offered every Spring.

COMAP 221 Video Design and Production I **4 credits**

A basic "hands on" introduction to video production, with emphasis on learning how to use the camera and related equipment, developing visual stories, writing a treatment and pre-production organizing and planning. Students will focus on understanding light, becoming familiar with production terms and equipment, improving shot design, planning for camera movement and placement, "shooting to edit", and harnessing the power of sound. Various aesthetic as well as ethical concerns are covered. Offered every semester.

COMAP 225 Video Design and Production II **4 credits**

Students increase their mastery of planning and production, develop treatments, write a script, develop shot lists, write location reports, and learn to organize and create production books. Students shoot and edit to increase their use of sophisticated non-linear digital editing techniques. *Prerequisite: COMAP 221* Offered every Fall.

COMAP 320 Presentations in Multimedia **3 credits**

This goal is a multimedia production in which students combine text, graphics, audio and video in an original creation. Students acquire skill in the analysis and application of presentation software Macromedia Director. This course is for students who desire to develop modes of communication and presentation that utilize the potential of developing technologies. *Prerequisites: COMAP 170 or COMAP 195.* Offered every Spring.

FOREIGN LANGUAGE AND LITERATURE

Ann Cerminaro-Costanzi, Ph.D., Associate Professor of Spanish, Chair
Christine Tyma DeGrado, Ph.D., Assistant Professor of Spanish
Jean Faustman, SSJ, D.M.L., Assistant Professor of French and Spanish
Mary Helen Kashuba, SSJ, D.M.L., Professor of French and Russian
Margaret Mary Murphy, SSJ, M.A., Assistant Professor of Classics
Cecelia J. Cavanaugh, SSJ, Ph.D., Dean of the School of Undergraduate Studies, Associate Professor of Spanish
Florencia Wilkinson, M.S., Instructor in Spanish

Majors may be pursued in **French** and **Spanish.** Students majoring in these languages are required to demonstrate oral and written proficiency at the level of advanced or above, according to the ACTFL Proficiency Guidelines. Language majors are also required to study a second language for at least two semesters and to demonstrate knowledge of that language at the intermediate level or above, according to the ACTFL Proficiency guidelines.

Minors may be pursued in French, Spanish and Latin. The Department also offers courses in Ancient Greek, Classical Civilization (in English), Italian, German, and English as a Second Language (ESL). All courses except Classics are conducted in the target language.

Teacher certification may be obtained in **French, Latin,** and **Spanish.** First language certification in French or Spanish requires a major in the language. Second language certification requires twenty-four to thirty credits beyond the elementary level, depending on the level of the candidate. Specifics for Latin are described elsewhere in this section. Students seeking certifications are expected to demonstrate oral (except Latin) and written proficiency in the language at the level of advanced or above, according to the ACTFL Proficiency Guidelines. Students seeking **certification** are also required to take **Foreign Language 317: Special Methods in Teaching Foreign Languages.**

The Department provides opportunities for internships and studies abroad and strongly recommends an immersion experience (Stateside or abroad) in the major language. Chestnut Hill College offers a special opportunity for students who wish to study in Paris, France. Students with a GPA of 3.0 or higher in advanced French courses may enroll in the *Cours de Civilisation Française de la Sorbonne.* This program is designed especially for non-Francophone students with courses given in French. During the semester preceding their departure for Paris, students participate in an orientation program given by a member of the Foreign Language Department. Payment for study in Paris is made directly to Chestnut Hill College. The cost approximates current fees for tuition, room and board at Chestnut Hill College. Most financial aid is applicable.

The Department also co-sponsors an annual Gourmet Day Celebration in which international food and drink are served and students are invited to share aspects of their native cultures.

FRENCH MAJOR

The major in **French** aims to provide students with knowledge and appreciation of the French language and French and Francophone culture and literature. Students learn to understand, speak, read and write the language and to acquire practical skills that will equip them for careers in business, government, communications, education and other areas in which language skills and cultural background are assets. Students learn to analyze through studying the structure of the language. They also develop an ability to interpret literature and thus bring a humanizing dimension to their own lives and to modern society.

■ **Requirements** – *30 credits above the intermediate level, distributed as follows:*

French Literature:	4-6 courses
French Civilization:	2-3 courses
French Language	2-3 courses
FREN 398	Seminar in French Literature

SPANISH MAJOR

The Spanish major offers opportunities to develop an appreciation and understanding of the literature and culture of Spain and Latin America, as well as to develop fluency in oral and written Spanish. Students learn to understand, speak, read and write the language

and to acquire practical skills that will equip them for careers in business, government, communications, education and other areas in which language skills and cultural background are assets. Students learn to analyze through studying the structure of the language. They also develop an ability to interpret literature and thus bring a humanizing dimension to their own lives and to modern society.

■ **Requirements** - 30 credits above the intermediate level, including:

SPAN	201	Advanced Grammar
SPAN	202	Advanced Conversation and Composition
SPAN	398	Seminar in Hispanic Literature

FOREIGN LANGUAGE MINORS GENERAL REQUIREMENTS:

- Students wishing to minor in a foreign language must consult with the Chair of the Department or a designated faculty advisor.
- All courses for the minor must be in the same language.
- Students may request a *combined* foreign language minor only if they have 18 credits beyond 103-104 (intermediate level) in *two* languages.

■ **Requirements for a Modern Language minor** – *18 credits*

- Students may choose to focus the minor in proficiency in the spoken language or in proficiency in reading the language.
- At least 12 credits must be beyond 103-104 (intermediate level)
- One course must be in Advanced Conversation. A course in Advanced Grammar is also required.
- 101-102 (introductory level) does not count for the minor, unless otherwise approved by the Department.

Exceptions may be made, when appropriate, after consultation with instructors and the Chair of the Department. Possible exceptions include:

- Native speakers who may not need Advanced Conversation
- Students beginning with 101-102 who may demonstrate appropriate proficiency after study abroad or other experiences
- Students applying Advanced Placement credits toward the minor

■ **Requirements for a Latin/Classical Civilization minor** – *18 credits*

- Students may choose to focus the minor in the *Language* or in *Classical Civilization*
- *Language* focus requires 12 credits in the language and six in *Classical Civilization*
- *Classical Civilization* focus requires six (6) credits in the language and 12 credits in *Classical Civilization*
- Latin 101-102 is acceptable for the minor
- Students may apply Advanced Placement credits toward the minor

TEACHER CERTIFICATION IN LATIN

■ **Requirements** – *24 credits (8 courses)*

- **Six courses** (seven, if the candidate begins with Latin 101) of the following:

LAT	101-102	Elementary Latin
LAT	103-104	Intermediate Latin
LAT	206	The Gift of Virgil
LAT	208	Early Christian and Medieval Latin
LAT	209-210	Survey of Latin Poetry and Prose
LAT	301	Stylistics and Prose Composition
LAT	302	Tutorial

- **One** to **two** of the following:

CLCIV	151	Enter the Hero and the Heroine
CLCIV	153	Mythology as Living Tradition
CLCIV	200	Ancient Drama

- ***The candidate for certification must demonstrate proficiency in written Latin.***
- **Indicates courses required for certification**

Course descriptions that are designated with a (L or W) fulfill the Literary *Ways of Knowing* or Writing Intensive requirement of the Core Curriculum.

CLASSICAL CIVILIZATION

CLCIV 151 Enter the Hero and the Heroine (L) **3 credits**
The Iliad, Odyssey, and Aeneid are read in English. Attention to epic poetry, the changing ideal of heroism, the influence of epic on Greek and Roman civilization and on European literature. Offered Spring 2006 and alternate years.

CLCIV 153 Mythology as Living Tradition (L) **3 credits**
A study of the great myths of the ancient world in connection with the religious and literary tradition and the evidence of ancient art. Persistent mythological themes, such as that of Oedipus, seen in a modern context. Offered Fall 2005 and alternate years.

ENGLISH AS A SECOND LANGUAGE

International Students normally take **ESL 103-104** for their language requirement. Students who place beyond the intermediate level may take English literature or communication courses to fulfill the language requirement or may choose a language other than English.

ESL 101-102 Basic English Skills: Non-Native Speakers **3 credits each**
An integrated skills class with practice in writing academic essays, note taking, and independent editing skills. Appropriate readings; focus on speaking and listening. Offered as needed.

ESL 103 Intermediate English Skills for Non-Native Speakers **3 credits**
An integrated skills class focusing on readings about American cultures and issues. Emphasizes developing vocabulary and increasing ability to participate comfortably in class discussions. Offered as needed.

ESL 104 Introduction to American Culture **3 credits**
A course for non-native speakers designed to foster continued development of reading and speaking skills. Different aspects of American culture are examined. Survival study skills will also be practiced. Offered as needed.

FOREIGN LANGUAGE

317 Special Methods in Teaching Foreign Languages * **3 credits**
Prepares teachers of foreign languages, levels K-12. Includes discussion of current methodology in foreign language teaching, linguistic principles and practical experience. Familiarizes students with the ACTFL guidelines and the National Standards for Modern Languages and demonstrates how to incorporate them into their teaching. Involves sample lessons, observation, and familiarity with current research in foreign language pedagogy. Offered Fall 2004 and alternate years.

FRENCH

FREN 101-102 Elementary French **3 credits each**
Introduction to the French language for students without previous experience. Focuses on the four skills of reading, writing, speaking, and understanding and the five National Standards for language learning. Includes audio-visual materials and use of computer and Internet resources. Offered every Fall and Spring.

FREN 103-104 Intermediate French **3 credits each**
A review of the basics of French for students with some experience in the language, along with the development of reading, writing, speaking and listening skills. Focuses on the National Standards for language learning. Includes audio-visual materials and use of computer and Internet resources. Offered every Fall and Spring.

FREN 217-218 Introduction à la Culture Française **3 credits each**
Aims to develop proficiency in oral and written French and to intensify reading skills through a study of French and Francophone culture. Includes conversation, oral exposés, composition, and grammar as needed. Readings are drawn from French culture and literature and Internet sources. Special emphasis will be given to the diversity of cultures, traditions, and languages contributing to the richness of life in various regions of the Francophone world. Offered every Fall and Spring.

FREN 221 Grammaire et composition avancée * (W) **3 credits**
Presents more advanced points in French grammar, stylistics, and the organization of paragraphs and essays. It will include practical exercises in elementary translation and the comparative study of English and French, highlighting cultural and lin-

guistic differences, especially in contemporary written and spoken French. Includes frequent oral and written reports, translations, and *explications de texte.* Offered Fall 2004 and alternate years.

FREN 222 French for Oral Proficiency * 3 credits
Uses a variety of materials, such as articles, short stories, plays, sample conversations, tapes, and practice in French phonetics, to enable students to achieve a score of at least Intermediate High on the ACTFL Oral Proficiency Interview. Offered Spring 2006 and alternate years.

FREN 228 Le Français Commercial 3 credits
A study of vocabulary, composition, letter writing and conversation aimed at developing communication skills in French, with emphasis on business and commercial terminology, the use of audio visual and Internet sources. Offered Fall 2005 and alternate years.

FREN 233 Expériences dans la Civilisation Française 2 credits
A series of preliminary lectures, seminars and projects followed by a study session abroad. The student experiences the language and the people by total immersion in the culture of the country. Offered as needed.

FREN 234-235 Contemporary Culture of the French Regions 3 credits
Comparative study of selected readings focusing on diversity of life in the various regions of France. Oral presentations, discussions, audio-visuals. For students with a good reading knowledge and comprehension of French. Offered as needed.

FREN 241 Le Dix-septième Siècle (L) 3 credits
Explores the theme of classicism through the Golden Age of French literature, with special emphasis on Corneille, Racine, Molière, Descartes, and Pascal. Addresses the culture of the period, focusing on the contributions of women in seventeenth-century France. Offered as needed.

FREN 242 Le Siècle des Lumières (L) 3 credits
Focuses on the eighteenth century with the contributions of the *philosophes* and their vision of progress and a new world order. Explores the causes, events, and consequences of the French Revolution. Offered as needed.

FREN 253 Romantisme et Réalisme (L) 3 credits
A study of emerging individual consciousness through authors such as Chateaubriand, Victor Hugo and Balzac. Reaction to romanticism in Flaubert and Zola; its consequences in the symbolist poets. Offered Fall 2004.

FREN 254 Le Vingtième Siècle (L) 3 credits
A study of modern society as reflected in its literary evolution from Proust through the *nouveau roman* and the *théâtre de l'absurde* to writers at the end of the century. Offered Spring 2006.

FREN 255 Le classicisme éternel (L) 3 credits
Focuses on the classical sources that contributed to the formation of the French literary and artistic tradition in the seventeenth century, and which reappears especially in the twentieth century. Classical authors such as Corneille, Racine, and Molière will be considered, along with their modern counterparts, such as Giraudoux, Cocteau, Camus and Sartre. The course will feature elements of distance learning. Offered as needed.

FREN 261 La Littérature Francophone (L) 3 credits
An exploration of literary texts, including poetry, theater, and novels, from Africa, the Antilles, and Canada, as well as those issues—linguistic, social, historical, and geographic—which add a deeper understanding of these areas. Offered Spring 2005.

FREN 301 Tutorial (L) 3 credits
An intensive study of a specific period or topic in French literature. Open to all qualified students. May be repeated for credit. Offered as needed.

FREN 398 Seminar in French Literature (L) 3 credits
Designed to integrate, enrich and deepen the student's understanding and appreciation of French literature. Develops a theme basic to the development of literature, explored through group discussion, individual seminars and papers. Offered as needed.

FREN 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

FREN 401 Language Internship-French **3 credits**
An off-campus program to provide the qualified junior or senior major with an opportunity for relating skill in language to other fields. The Department determines which sites offer sufficient language use to warrant credit.

INTERNATIONAL BUSINESS, LANGUAGE AND CULTURE

(See catalog page 92)

ITALIAN

ITAL 101-102 Elementary Italian **3 credits each**
Introduction to the Italian language for students without previous experience. Focuses on the four skills of reading, writing, speaking, and understanding and the five National Standards for language learning. Includes audio-visual materials and use of computer and Internet resources. Offered Fall – Spring 2003-2004 and alternate years.

ITAL 103-104 Intermediate Italian **3 credits each**
A review of the basics of Italian for students with some experience in the language, along with the development of more advanced reading, writing, speaking and listening skills. Focuses on the five National Standards for language learning. Includes audio-visual materials and use of computer and Internet resources. Offered Fall – Spring 2004-2005 and alternate years.

LATIN

LAT 101-102 Elementary Latin **3 credits each**
Designed to help master the fundamentals of the Latin language and to develop the ability to read and understand Latin. Offered Fall – Spring 2004-2005 and alternate years.

LAT 103-104 Intermediate Latin **3 credits each**
Review of forms and readings from Latin authors, adapted to the background of the students. *Prerequisite: LAT 101-102 or equivalent.* Offered Fall – Spring 2004-2005 and alternate years.

LAT 206 The Gift of Virgil (L) **3 credits**
Sections of the Aeneid, Books I-VI, read in the original. Emphasis on the unifying thread and motivation which makes this work as vital to the readers of today as to Virgil's contemporaries. Offered as needed.

LAT 208 Early Christian and Medieval Latin (L) **3 credits**
Readings from the Fathers of the Church; religious and secular prose and poetry from the fifth to the thirteenth centuries. Study of the continuous contributions of Latin as a vehicle of thought. Attention to the changes in morphology and syntax; emphasis on the ability to read rapidly from selections of the available material. Offered as needed.

LAT 209 Survey of Latin Poetry (L) **3 credits**
Selections from the lyrics of Catullus, the *Odes* of Horace and the *Metamorphoses* of Ovid, including the characteristics and metrical forms of each type, the history of the genres and its Greek influence, the literary and social background of each poet. Offered as needed.

LAT 210 Survey of Latin Prose (L) **3 credits**
Selections from Cicero, Caesar, Sallust, and Pliny, including the types and styles of prose writing (oratory, letter-writing, history, philosophy), and the politics of the late Republic. Offered as needed.

LAT 301 Stylistics and Prose Literature (L) **3 credits**
A restudy of the forms of Latin language and style in order to understand the thought patterns and verbal expression of the Romans. Offered as needed.

LAT 302 Tutorial (L) **3 credits**
An intensive study of a specific period or topic in Latin literature arranged with a view to student interest. Offered as needed.

SPANISH

SPAN 101-102 Elementary Spanish **3 credits each**

Introduction to the Spanish language for students without previous experience. Essentials of pronunciation and grammar, leading to proficiency in reading, writing, speaking, and understanding. Focuses on the five National Standards for language learning. Includes audio-visual materials, computer and Internet resources. Offered every Fall and Spring.

SPAN 103-104 Intermediate Spanish **3 credits each**

For students with a basic knowledge of Spanish. Grammar review, pronunciation and introduction to Hispanic authors, with development of reading, writing, speaking and listening skills. Focuses on the five National Standards for language learning. Includes audio-visual materials, computer and Internet resources. Offered every Fall and Spring.

SPAN 150 Commercial Spanish **3 credits**

Designed to develop fluent communication, both oral and written, in contemporary business transactions. Special attention given to understanding the cultural context within which business is conducted in both Spain and Latin America via newspaper articles, audio and video materials and the Internet. Group projects, class discussions, oral and written work in Spanish. Offered Spring 2005 and alternate years.

SPAN 161 Masterpieces of Hispanic Literature I (L,W) **3 credits**

An introductory literature course intended to familiarize the student with the literature of Spain and to develop skills in literary analysis. Works from the Middle Ages to present are studied. Class discussion, readings, oral and written work in Spanish. Offered Spring 2005 and alternate years.

SPAN 162 Masterpieces of Hispanic Literature II (L,W) **3 credits**

An introductory literature course intended to familiarize the student with the literature of Latin America and to develop skills in literary analysis. Works written before 1492 through the present are studied. Class discussion, readings, oral and written work in Spanish. Offered Fall 2004 and alternate years.

SPAN 163 Masterpieces of Hispanic Literature III (L) **3 credits**

Complements **SPAN 161 and 162.** An in-depth study of one genre (announced at course offering) at the introductory level. Studies representative works from the Middle Ages to the modern period, major developments in Hispanic literature, the concept of genre, and the analysis appropriate to genre. Class discussion, readings, oral and written work in Spanish. May be taken once. Offered as needed.

SPAN 201 Advanced Grammar* **3 credits**

Special attention to the structure of present day Spanish. Intensive review of grammar principles, vocabulary, and usage to increase the student's command of written and spoken Spanish. Also includes practical exercises in elementary translation and the comparative study of English and Spanish, highlighting cultural and linguistic differences, especially in contemporary written and spoken Spanish. Offered every Fall.

SPAN 202 Advanced Conversation and Composition * **3 credits**

Designed to develop conversational fluency in written and spoken Spanish, accuracy of pronunciation and intonation and maturation of style. Themes considered in class provide topics for research, writing and discussion. Offered every Spring.

SPAN 205 Novels and the Movies They Inspired (L) **3 credits**

Examines several novels and short stories and the movies based on them. Considers how choices of medium and of narrative technique effect both the manner in which a story is told and the way in which it is received. Authors and texts considered may include among other possibilities, Miguel Delibes' Los santos inocentes, Benito Pérez Galdos' El abuelo, Juan Ramón Jiménez' Platero y yo, Juan Marse's Ultimas tardes con Teresa, Adelaída García Morales' El sur, and stories such as Julio Cortázar's "Cartas de mamá", Jorge Luis Borges' "Emma Zunz." Readings, movies, discussions and written work in Spanish. The course will feature elements of distance learning. Offered Fall 2005 and alternate years.

SPAN 206 The Spanish Golden Age (L) **3 credits**

Special focus on the 16th and 17th centuries, the "Golden Age" of Spanish art, politics and letters. Considers the culture of Empire: its art, music and ideology as well as the poetry, theater and prose of the Renaissance and Baroque periods. Authors include Góngora, Sor Juana Inés de la Cruz, Quevedo, Lope de Vega, Calderón, San Juan de la Cruz and Cervantes. Offered Spring 2005.

SPAN 217 Introduction to Hispanic Culture I – Spain **3 credits**
Examines all facets of Spanish Culture from the early migration of peoples to the Iberian Peninsula to the Conquest of the Americas to present day social, political and economic developments. Special emphasis given to the diversity of cultures, traditions, and languages contributing to the richness of life in various regions of Spain. Includes discussion, exams, oral and written reports. Readings drawn form historical and cultural sources, Spanish newspapers, magazines and the Internet. Offered Fall 2005 and alternate years.

SPAN 218 Introduction to Hispanic Culture II – Latin America **3 credits**
Examines all facets of Latin American culture from Pre-Colombian civilizations to the Spanish Conquest to present day social, political and economic developments. Special emphasis given to the diversity of cultures, traditions and languages contributing to the richness of life in various regions of Latin America. Includes discussion, exams, oral and written reports in Spanish. Readings drawn from historical and cultural sources, Latin American newspapers, magazines and the Internet. Offered Spring 2006 and alternate years.

SPAN 253 Nineteenth Century Spanish Literature (L) **3 credits**
A study of major writers, including poets, essayists, novelists, short-story writers and dramatists of 19th century Spain. Special emphasis on Romanticism, *Costumbrismo* and Naturalism and their relationship to social, political and economic developments in Spain. Authors may include: Larra, Espronceda, Bécquer, Castro, Zorrilla, Galdós, Pereda, Bardo Bazán, Clarín and Casona. Readings, reports and papers in Spanish. Offered as needed.

SPAN 254 Contemporary Spanish Literature (L) **3 credits**
Reading and discussion of major poets, novelists and dramatists of the 20th century. Special emphasis on Modernism, the generation of 1927 and the impact of the Spanish Civil War on writers of post-war generations. Authors include Unamuno, Pío Baroja, Azorín, Valle-Inclán, Machado, García Lorca, Guillen, Aleixandre, Cela, Delibes, Buero Vallejo, Sastre and Arrabal. Readings, reports and papers in Spanish. Offered Spring 2006.

SPAN 262 Hispanic Women Writers (L) **3 credits**
An intensive study of women writers in Hispanic literature arranged for students' interests. Authors may include, among other possibilities, Santa Teresa de Jesús, Sor Juana Inés de la Cruz, Emilia Pardo Bazán, Ana María Matute, Rosario Ferré, Isabel Allende and Carmen Martín Gaite. Readings, reports, and papers in Spanish. Offered Fall 2005.

SPAN 263 Colonial Latin American Literature (L) **3 credits**
A study of major writers, including poets, essayists, dramatists and correspondents, from the colonial period in Latin America. Special attention paid to some pre-encounter indigenous works as well as to the impact of colonization on the literature produced during the period. Authors may include, Netzacohuatl, Columbus, Cortés, De las Casas, Ercilla, Inca Garcilaso de la Vega, Sor Juana Inés de la Cruz, Fernández de Lizardi and Bello. Readings, reports and papers in Spanish. Offered as needed.

SPAN 264 Contemporary Latin American Literature (L) **3 credits**
Reading and discussion of major poets, novelists, short-story writers and dramatists of the 20th century. Special attention paid to the development of a uniquely American voice in Hispanic letters with emphasis on Modernism, the question of identity, magic realism, the "boom", political themes etc. Authors may include, Martí, Darío, Quiroga, Mistral, Neruda, Paz, Borges, Cortázar, García Márquez, Carballido, Dragún, Valenzuela and Allende. Readings, reports and papers in Spanish. Offered Fall 2005.

SPAN 265 Literature of the Caribbean (L) **3 credits**
An exploration of literary texts, including poetry, theater and novels from Spanish-speaking Caribbean areas, as well as those issues—linguistic, social, historical and geographic—which lead to a deeper understanding of the region, its literature and its people. Readings, reports and papers in Spanish. Offered as needed.

SPAN 301/398 Seminar in Hispanic Literature **3 credits**
A weekly seminar designed to correlate the main literary trends in Hispanic literature. Fulfills senior seminar requirement; open to advanced students. Offered as needed.

SPAN 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

SPAN 401 Language Internship-Spanish **3 credits**
An off-campus program to provide the qualified junior or senior major with an opportunity for relating skill in language to other fields. The Department determines which sites offer sufficient language use to warrant credit.

International Studies Certificate

Mary Helen Kashuba, SSJ, D.M.L., Director

The International Studies Certificate program enables students, in any major, to become more aware of the growing interdependence of nations. Courses with a multi-cultural dimension and an international focus, as well as the study of languages, broaden horizons and prepare participants to be agents in solving problems in a positive and peaceful way. An internship with an international dimension provides realistic experience and enhances career opportunities in the United States and abroad. This concentration will be noted on the student's permanent transcript.

■ Requirements:

- **Five courses,** chosen by individual students in consultation with their international studies advisor, which focus on a specific topic. Examples of topics: Ecology and Environment in an International context; Multinational Corporations and International Business; Children and the Family in an International context; Multiculturalism in the Arts, etc. The choice of courses should be interdisciplinary in nature and may be used to fulfill Major and Ways of Knowing requirements. Although the course plan and focus should be finalized by the first semester of junior year, it is recommended that students begin their program in their first year.
- **Foreign Language Competency.** The student must reach a minimum of intermediate mid on the ACTFL oral proficiency scale. The ACTFL oral proficiency interview or an equivalent will assess the student's level.
- **An internship** with an international dimension, related if possible to the focus and the language. Internships abroad are encouraged.
- A **Global Studies Course** (G1201) required of all students.

401 International Studies Internship **3 credits**

An off-campus program to provide junior and senior candidates for the certificate with a working situation with an international dimension. The internship may be local or abroad, with the approval of the Director.

HISTORY AND POLITICAL SCIENCE

Lorraine Coons, Ph.D., Professor of History, Chair
David R. Contosta, Ph.D., Professor of History
Barbara Nolan, SSJ, Ph.D., Professor of Political Science
Jacqueline Reich, Ph.D., Assistant Professor, Political Science
Philip McGovern, M.A., Adjunct Faculty, Political Science
Alexander Varias, Ph.D., Adjunct Faculty, History
William T. Walker, Ph.D., Vice President for Academic Affairs and Dean of the Faculty, Professor of History

HISTORY

The objective of the program is to give the History major or minor a deep awareness of the importance of the historical perspective through courses ranging from ancient times until the present. The student has the opportunity to learn about the self and to analyze historical consciousness. History students are prepared for a wide variety of careers: law, para-legal work, banking, public service, diplomatic service, communications, secondary school teaching, museums, archives, and graduate school.

Phi Alpha Theta, the national honor society in History, requires a GPA of 3.0 and a 3.1 average in History. Both majors and minors are eligible for nominations into the society upon completion of 12 semester hours of course work in History.

■ **Requirements for a major** – 36 credits including:

HIST	101	History of Western Civilization I
HIST	102	History of Western Civilization II
		OR
HIST	104	Topics in Global History
HIST	341	History and Historiography
HIST	342	Senior Seminar

■ **Requirements for a minor** – *18 credits, including:*

- HIST 101-102 Western Civilization (6 credits)
- Four electives selected in consultation with minor advisor.
- An internship *(3 credits)* may be included in the four electives
- Consultation with History program faculty about requirements and procedures
- Courses taken to fulfill a minor in history may also be used to fulfill general education and *Ways of Knowing* requirements in the humanities.
- Course descriptions that are designated with a (H, B, A) fulfill the Historical, Behavioral, or Artistic *Ways of Knowing* requirement of the Core Curriculum. Courses designated with a (W) indicate writing intensive and fulfill that requirement

■ **Requirements for Citizenship Certification:**

Students seeking secondary education certification in Citizenship must complete the required education courses (see Education section), and the following content courses:

ECON	105	Microeconomic Principles
ECON	105	Macroeconomic Principles
GEO	101	Introduction to Geography
HIST	101	History of Western Civilization I
HIST	102	History of Western Civilization II
		OR
HIST	104	Topics in Global History
HIST	141	American Survey I
HIST	142	American Survey II
HIST	251	Topics “A”: The Pennsylvania Experience
POLSC	100	Introduction to Political Science
POLSC	214	Constitutional Law: Civil Liberties

HIST 101-102 History of Western Civilization (H) **3 credits each**
Explores Greek and Roman culture and civilization, beginnings of Christianity, institutions and culture of the Middle Ages, geographical discoveries, European political order, Renaissance and religious revolution, Age of Reason, nineteenth and twentieth centuries.

HIST 104 Topics in Global History (H) **3 credits**
Analyzes selected topics in modern world history with an emphasis on European and American developments from the eighteenth century until the present time. Topics for study include: the Enlightenment, the French Revolution, Industrialization and the emergence of nation states, the United States and foreign affairs, the Middle East, and contemporary events in Europe and Asia. Primary attention will focus upon political, social, cultural, and intellectual trends.

HIST 106 Survey of Women's History (H) **3 credits**
A general survey in the history of women from antiquity to the present. Special emphasis is given to women's roles, their work, and their place in society. While the course will focus on Europe and America, women's experiences globally will also be considered.

HIST 141 American Survey I (H) **3 credits**
An exploration of the major movements, events, persons, and ideas of American history from the colonial period to the aftermath of the Civil War. Includes the European background to American history, colonial life, the American Revolution and Constitution, the evolution of the Supreme Court, political developments, comparisons of the enlightenment and romanticism, territorial expansion, growth of technology and the economy, important aspects of American material, intellectual, and popular culture, the Civil War and its legacies. Highlights American history from colonial days to the present.

HIST 142 American Survey II (H) **3 credits**
An exploration of the major movements, events, persons, and ideas of American history from the end of the Civil War to the present day. Includes the industrial revolution and growth of cities, progressive reform, and the nation's rise to world power. World War I, the roaring twenties, the Great Depression and the New Deal, World War II, the Cold War, the sixties counterculture, civil rights and the gender revolution, the rise and decline of presidential power, the evolution of political parties, the role of the Supreme Court, the importance of science and technology, major ideas of the late nineteenth and twentieth centuries, material and popular culture.

HIST 201 Ancient Greece (H) **3 credits**
Surveys the cultural, social, economic and political development of ancient Greek history beginning with the earliest invasions and concluding with the Roman conquest. Topics include: the Minoans and Mycenaeans, Archaic and Classical Greece, the Peloponnesian Wars, and the Hellenistic Age.

HIST 202 Ancient Rome (H) **3 credits**
Surveys Rome from its earliest foundations to its emergence as an empire and its eventual decline. Topics include Etruscan background; Republican Rome; the Punic Wars; social and political problems of the Republic; collapse of the Republic; the Roman Empire; Roman culture; Christianity; and the fall of the empire.

HIST 204 Medieval Europe and the Surrounding World (H,A) **3 credits**
Explores the nature of European civilization from the fall of the Roman Empire to the beginnings of the Renaissance. Also studies the impact upon Medieval Europe of the Byzantine Empire and Islamic societies. Topics include: the Papacy, Byzantium, monasticism, feudalism, Romanesque and Gothic art and architecture, the Islamic challenge, the Crusades, medieval cities and commerce, the growth of monarchy, the Bubonic Plague. (This course fulfills the Artistic *Ways of Knowing* requirement).

HIST 205 Renaissance, Reformation, 1450-1648 (H) **3 credits**
Studies the waning of the Middle Ages and forms of new culture and new institutions in Europe. Topics include: the Renaissance and the new humanism, the Protestant Reformation, Catholic reform and counter-reformation, the Thirty Years War.

HIST 210 Europe in the Twentieth Century (H) **3 credits**
A survey of Europe from the Belle Epoque through the end of the Cold War. Topics include: the Great War, the Russian Revolution, the women's movement, totalitarianism, World War II, post-war reconstruction, decolonization, European Economic Community, and the break-up of the Soviet Union.

HIST 212 Culture and Society in Modern Europe (H) **3 credits**
An introduction to the study of labor, the family, popular culture, the arts, class conflict, and social movements since the Industrial Revolution. Special emphasis is placed on developments in Great Britain, France, Germany, Italy, and Russia.

HIST 214 Twentieth Century Germany (H) **3 credits**
The history of Germany and the German speaking lands in the twentieth century. Topics discussed: the era of Kaiser Wilhelm II, the First World War, the Weimar Republic, the rise of Adolf Hitler and National Socialism, the Second World War, the Holocaust and anti-Semitism, West and East Germany in the age of the Cold War and the EEC, and the re-unified German nation.

HIST 218 French Revolution (H, W) **3 credits**
A detailed analysis of the European Revolutionary Era of 1789-1815 with particular emphasis on the old regime, the Enlightenment, popular culture, the course of the Revolution and the Reign of Terror. *(This class fulfills the Writing Intensive course requirement).*

HIST 219 France and the Modern World (H, W) **3 credits**
Focuses on France from the Bourbon Restoration of Louis XVIII to the Fifth Republic of François Mitterand. Emphasis is placed on political, social, and cultural developments from 1815 to 1990s. Topics include: industrial revolution, French colonialism, women in French society, bohemian Paris, fascism and anti-Semitism, the student movement of the 1960s and the course of French socialism. (This course fulfills the Writing Intensive Course requirement).

HIST 220 Rise and Fall of the Soviet Union (H) **3 credits**
The history of Russia from the first revolution in 1905 through the break-up of the Soviet Union. Topics include: Lenin and the Bolshevik seizure of power, the Civil War, Stalin and the Five Year Plans, Soviet society, the "new woman", the Gulag experience, de-Stalinization, the Gorbachev experiment, and the age of free market reform.

HIST 222 Genocide in the Modern World (H) **3 credits**
This seminar will concentrate on the nature of genocide in the 20th century. Students will examine the definition and meaning of genocide in the modern world, focusing on five case studies: Armenia (1915-23), the Nazi Holocaust (1933-45), Cambodia (1975-79), Rwanda (1994), and Bosnia (1992-95). We will look at the historical forces and trends at work leading to each genocide and its long-range impact on the victim population.

HIST 224 History of Great Britain: Tudors to the Present (H) **3 credits**
Highlights the cultural, social, political and economic development of modern Britain from the Tudors to the present. Special consideration is given to: Shakespearean England, the English Civil War, the growth of Parliament, Industrialization, Imperialism, Women's Suffrage, the Irish question, the two World Wars, and contemporary British society.

HIST 228 Women in Modern European Society (H) **3 credits**
Focuses on the economic, social, political and cultural position of women in Great Britain and Western Europe from mid-eighteenth century to the present. Examines industrial society's impact on women in the workplace, within the family, and in the political sphere.

HIST 230 Revolution, War, and Peace: Women's Activism in the Modern World (H, B, W) **3 credits**
This seminar focuses on the public role of women in terms of their activism in key events shaping their world from the French and American Revolutions to the present. The clash between society's perceptions of women's "proper sphere" and the reality of women's experiences will be examined. Topics include: collective action and the revolutionary crowd, war and women's work, women in totalitarian societies, resistance and retribution, the Nazi Holocaust, pacifism and the Women's International League for Peace and Freedom. (This course fulfills the Behavioral *Ways of Knowing* requirement and the Writing Intensive Course requirement).

HIST 231 History of American Foreign Relations (H) **3 credits**
The development of American foreign policy and its relationship to social, economic, political, and cultural forces.

HIST 232 Cities and Suburbs (H) **3 credits**
A study of American cities and their suburbs from the Colonial period to the present. Students examine growth patterns, immigration, social, ethnic, and racial contours, economic and technological factors, architecture, politics, reform movements, religion, urban planning, and the art and architecture spawned by cities and suburbs.

HIST 233 America and the Two World Wars (H, B) **3 credits**
Describes and analyzes the many ways in which World War I and World War II changed the United States, including the country's role in world affairs, wartime mobilization, the expansion of government, the revolution in manners and morals, the great depression, the baby boom, the GI Bill, the expansion of higher education, civil rights, the role of women in American life, the cold war, scientific research, the nuclear age, and much more. (This course fulfills the Behavioral *Ways of Knowing* requirement).

HIST 234 The American Presidency: A History (H) **3 credits**
Considers the evolving scope of the American presidency from the Constitutional Convention of 1787 to the present day. Stresses the growing power of the presidency, the shifting contours of presidential elections, and the lives of important presidents within the wider context of American and world history.

HIST 236 Progressive America, 1900-1940 (H) **3 credits**
Explores the similarities and differences between the two great reform movements of the first half of the twentieth century: the Progressive Era and the New Deal. Topics include the settlement house movement, women's suffrage, prohibition, the social gospel, political reform, problems of the city, "normalcy" and the critics of progressivism, the progressive education movement, the influence of movies and the radio, the Great Depression, the rise of entitlements and the welfare state, the realignment of political parties, the emergence of the modern presidency and its critics, and the New York World's Fair of 1939.

HIST 240-241 The United States in the Twentieth Century (H) **3 credits each**
Examines the last one hundred years of the United States, including material, social, political, cultural, intellectual, and religious developments. Analyzes the United States as a world power during and after the two world wars.

HIST 243 The Civil War and American Life (H) **3 credits**
Examines the great, tragic epic of American life, the Civil War of 1861-1865. Students examine the roots of the Civil War, the major issues of the conflict, life during the war (in the military as well as on the home front), the reason for northern victory and southern defeat, and the many important legacies of this seminal time in the nation's history.

HIST 245 The 1960s and its Legacies (H) **3 credits**
Examines the great upheavals in American life during the 1960s and early 1970s and their on-going consequences Topics include the baby boom, hippies, the counterculture, the new left, the sexual revolution, women's liberation, changing family patterns, civil rights, the revival of ethnic consciousness, the Vietnam War, suburbanization, political correctness, multiculturalism, the renewal of conservatism, the moral majority, casual dress, the reassertion of Congressional authority, and fears of American decline.

HIST 247 African Americans During the Age of Slavery (H) **3 credits**
Examines the development and experiences of the African American community during the age of slavery. We will focus on the development of African American culture and an in-depth examination of the slave community, family, and religion. The course considers the growth of the free black community and the creation of black political, social, and economic ideologies and institutions. Particular topics include the struggle against slavery, slave insurrections, the abolitionist movement, and the Civil War.

HIST 248 African Americans Since Emancipation (H) **3 credits**
Examines the development of the African American community in the United States since emancipation. We will chronologically and thematically explore the process of reconstruction, segregation, disenfranchisement, migration, and urbanization and the rise of African American protest organizations, black nationalism, the Harlem Renaissance, and the modern day civil rights movement. Special attention will be given to the social, economic, political, religious, and cultural forces inside and outside of the African American community that have helped shape the course of African American history.

HIST 251-252 Topics "A" and "B" **3 credits each**
A detailed topic for a semester's study offered by a faculty member and announced in advance.

HIST 270 History of Chestnut Hill (H) **3 credits**
A history of the Chestnut Hill section of Philadelphia with an emphasis on its social development over the past century. Students will be introduced to basic techniques in researching and writing local history. The course will include field trips, slide lectures, and student presentations.

HIST 275 Film and History (H,A) **3 credits**
Examines the relationship between film and history. Emphasizes the historical and aesthetic concerns at work upon particular directors. The format consists of weekly film showings, lectures and discussion. Students read critical historical works. Among the directors to be studied are: Eisenstein, Chaplin, Capra, Welles, Renoir, Bergman, Truffaut, Hitchcock, Fellini, Kurosawa, Satajit Ray, and Bunuel. (This course fulfills the Artistic *Ways of Knowing* requirement).

HIST 341 History and Historiography (H) **3 credits**
Introduction to historiography and the history of history. Supervision of exercises in research and the composition of papers.

HIST 342 The Senior Seminar **3 credits**
A weekly seminar in one of four major areas (ancient, medieval, modern European or American history) elected by history majors. Supervision of exercises in research and composition of senior papers.

HIST 401-402 Field Work **3 credits**
Work with historical societies, archives, governmental agencies, newspapers, law firms, corporations, parks, etc., where students' activities are related to historical topics and concerns. Involves directed readings and independent study. Students will receive a letter grade. Majors may take both History 401 and 402.

POLITICAL SCIENCE

The primary aim of the curriculum in Political Science is to provide the student with a strong background in all the major areas of the discipline. Thus the Major's program includes the normative area of political philosophy as well as the quantitative study of political behavior. Possible career opportunities include law, paralegal services, teaching, civil service, public administration, journalism, business, and international affairs. Such opportunities are made more tangible through the Major's internship program.

■ **Requirements for a major** – *36 credits including:*

POLSC	100	Introduction to Political Science
POLSC	211	Political Theories: Ancient and Medieval
POLSC	212	Political Theories: 17th to 20th Century
POLSC	301	Senior Seminar

- **At least one course in each area:**
  American Politics
  International Relations
  Law
  Comparative Politics
- Other courses at the election of the student to total at least 36 credits.
- Credit for an Internship (POLSC 401) does not count toward the required 36 credits

■ **Requirements for a minor** – *18 credits including:*

- **One course at or above the 200 level**
- **One course from each of the following areas**
  American Politics
  Comparative Politics
  International Relations
- Other courses at the election of the student to total at least 18 credits

Course descriptions that are designated with a (B) fulfill the Behavioral *Ways of Knowing* requirement of the Core Curriculum.

POLSC 100 Introduction to Political Science (B) **3 credits**
General survey examines the nature of the discipline with respect to its historical development and its major sub-divisions, including the American political system, political theories and ideologies, comparative governments, and international relations. Offered yearly.

POLSC 101 American Political Process (B) **3 credits**
Topics for analysis include: the origins of the American Constitution, US political culture, political parties and interest groups, the structure and functioning of the Congress and the Executive, and impact of the Supreme Court on public policy. Offered alternate years.

POLSC 102 American State and Local Government (B) **3 credits**
Organization and functions of state and local government, with special emphasis on the rights, privileges and duties of its citizens. Offered as needed.

POLSC 103 Citizenship and Democracy: A Global Perspective (B) **3 credits**
This course is an introductory survey of American citizenship, democracy and government, examined and critiqued from a global perspective. Both normative and behavioral tools are used to analyze the evolution, functions, processes and institutions on both a national and international scale. The goal of the course is to make the student a more informed, tolerant and active citizen of the 21st century in America.

POLSC 107 Principles of Business Law (B) **3 credits**
An introduction to the nature and functions of law and fundamental principles of business law: law of contracts, torts, insurance, consumer rights, wills and trusts, and sales. Offered yearly.

POLSC 114 American Political Parties (B) **3 credits**
A study of political parties and pressure groups in their role as a legitimizing factor in American government with emphasis on recent statistical materials in the fields of party organization, voting behavior and public opinion. Offered alternate years.

POLSC 116 Introduction to Comparative Politics (B) **3 credits**
A comparison of the political and economical systems of six nation states from Europe, Asia, Africa, and Latin America. Class lectures and discussions are geared around problems of political participation, economic development and social welfare of the six states.

POLSC 118 Introduction to International Relations (B) **3 credits**
A basic survey course dealing with the actors and structure of the international system of states. Emphasis will be given to the classic issues of power and national security as well as to current debates on the significance of processes of interdependence, international political economy and globalization.

POLSC 120 Law and Business Enterprise (B) **3 credits**
Geared primarily for business majors. Focuses on the law of contracts, product liability, landlord/tenant law, negligence, torts, trademarks and other topics relevant to the business world. See BUADM 120

POLSC 122 Selected Topics (B) **3 credits**
Special topics in the comparative area of politics which provide comprehensive analysis of specific government structures, party systems, etc. Given as needed.

POLSC 130 International Law and World Order (B) **3 credits**
An examination of the role of international law in promoting world order and a survey of its applications in such areas of international politics as the use of force, nuclear weaponry, distributive justice, and the Law of the Sea. Offered as needed.

POLSC 185 Mass Media and Politics (B) **3 credits**
Explores the various types of media, government regulation of the media, the gathering and distribution of political news and media use in election campaigns. Offered as needed.

POLSC 190 American Foreign Policy (B) **3 credits**
This course explores the ideological bases of United States foreign policy debates and actions throughout the twentieth century and at the start of the new millennium. Topics include the decision-making process, problems of national security and strategies for trade and monetary policy in the international economy.

POLSC 211 Political Theories: Ancient and Medieval (B) **3 credits**
A study of the works of the major political philosophers of early world history, focusing on such concepts as justice, freedom and equality, the nature and function of the state; consideration of the relevance of such issues to contemporary political institutions. Offered yearly.

POLSC 212 Political Theories: Seventeenth to Twentieth Century (B) **3 credits**
Analysis of the writings of selected modern world political philosophers and the influence of their ideas on present political structures. Issues discussed include: the problem of political obligation, freedom vs. totalitarianism, the social contract, forms of government, and revolution. Offered yearly.

POLSC 214 Constitutional Law: Civil Liberties (B) **3 credits**
An examination of the Supreme Court's role in determining the limits of the civil rights and liberties such as freedom of speech, freedom of press, freedom of religion and other protections of the Bill of Rights. Offered alternate years.

POLSC 215 Politics and Personality (B) **3 credits**
Selected topics within the field of political behavior, the development of political attitudes of the average citizen as well as those of extremists and activists; the typical profile of public office-holders; personalities of famous and infamous politicians; presidential behavior.

POLSC 216 Politics and the Legal Process (B) **3 credits**
An examination of the crucial role of politics in shaping patterns of behavior within the legal process; politics of recruitment, appointment and elections of judges and attorneys; police behavior and values; Federal and State court systems; the juvenile justice system; the politics of incarceration. Offered alternate years.

POLSC 301 Senior Seminar (B) **3 credits**
A seminar designed to show, through readings, research and discussion, the integrated relationship among the divisions of political science. Seminar culminates in submission of an abstract and an oral presentation on a specific topic. Prerequisite: seniors who have completed all major requirements and course work. Offered Spring of each year.

POLSC 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

POLSC 401 Political Science Internship (B) **3 credits**
A program of study designed to provide direct and relevant experience in the field of government, law and politics for qualified senior majors. Students prepare a comprehensive paper related to fieldwork. Does not count toward 36 credit hours for the major in Political Science.

INTERDISCIPLINARY MINORS

GERONTOLOGY MINOR

Elaine R. Green, Ed.D., Minor Director

The Gerontology Minor, open to any student, is designed to prepare participants for positions in agencies and institutions that administer health and community based services for the aged, such as, nursing homes, hospitals, senior citizen centers, hospice care, recreation and counseling services. The program serves to enhance the knowledge base and skills of persons currently engaged in the provision of such services, or those who are preparing to work in this area.

Participants take three basic courses, one elective, and a seminar. An internship experience is developed for each student according to specific interests and career goals. After all requirements are completed, the Minor in Gerontology is noted on the student's permanent transcript.

■ **GERONTOLOGY MINOR** – 6 courses

PSYCH	107	Psychology of Adulthood and Aging
SOC	114	Social Gerontology
GERO	398	Gerontology Seminar
GERO	401	Gerontology Internship

- Two electives chosen with the approval of the Minor Director

GERO 398 Gerontology Seminar **3 credits**

Presentation of gerontology topics by experts, as well as field trips to provide exposure to programs, organizations and services for the aged. Topics include nutrition, housing, entitlement programs, finances, legal problems and health issues.

GERO 401 Gerontology Internship **3 credits**

Field placement in an agency or facility that provides services to older adults. Placement is related to the student's interests. Supervision by a field supervisor employed by the agency or facility and a liaison from the College faculty.

INTERDISCIPLINARY SCHOLARS PROGRAM

Barbara Glennon, SSJ, D.M.A., Director

The Interdisciplinary Scholars Program challenges students to pursue a creatively different approach to the liberal arts. The program offers team-taught interdisciplinary seminars which promote liberal education by stressing interconnections among different fields of study and by challenging students and faculty alike to teach and to learn. These seminars emphasize discussion, writing, intellectual independence, and integration of knowledge. All Scholars seminars, except **Introduction to the Scholars Program,** are conducted primarily by group discussion.

Qualified and interested students may apply for the complete Interdisciplinary Scholars Program or for a single Scholars seminar; preference is given to students pursuing the complete program.

The complete program consists of three two-semester scholars seminars, usually one each year. These 21 credits are focused on the six perspectives (historical, literary, artistic, science and technology, problem-solving and analysis and interpreting human behavior) included in the *Ways of Knowing* in a proportion which approximates the distribution of Core requirements in these areas and, taken as a whole, satisfy the Core requirements. When the program includes a Religious Studies component, it can apply as one of the two required Religious Studies courses; in such instances, an additional course is required in another Way of Knowing. **Introduction to the Scholars Program** satisfies the writing course requirement for scholars. Completion of the Scholars Program also fulfills the fundamental requirements of the Core Curriculum: *Introduction to the Liberal Arts* and *Global Awareness Seminar.*

When not part of the complete program, a two-semester Scholars seminar can earn six credits in *Ways of Knowing* while one semester earns three credits, as appropriate. Further information is available from the Director of the program - 215.248.7174.

ISP 300 Introduction to the Scholars Program **3 credits**
An introduction to the structure, methodology, and skills of the Interdisciplinary Scholars Program, including writing in various disciplines, basic communication skills, instruction and practice in group dynamics and discussion, and elementary word processing. *Satisfies the writing course requirement.* Offered every Fall.

ISP 311 Philosophy and Business: An Approach to Ethical Decision Making **3 credits**
This seminar provides a foundation for understanding economic organization, identifying and analyzing ethical issues arising in business, and developing structures and skills for promoting responsible corporate action. Discussions will focus on both readings and case studies.

ISP 359-360 Defectives, Degenerates, and Deviants: The Misuse of Science in Society and Politics **3 credits each**
The course investigates the use and misuse of science in explaining human behavior, particularly in validating prejudices and political and social topics as eugenics, social Darwinism, and criminal anthropology. The second semester focuses on continuing controversies over race, intelligence, crime, gender, sexual orientation, and the social and political issues emerging from the human genome project. Offered 2003-4, 2004-5, 2005-6.

ISP 361 Literary Characters, Castles and Cathedrals of the Middle Ages **3 credits**
Exciting discoveries of characters who lived, loved, and fought in a time that resembles our own in so many ways, and has provided imperishable works of art which have inspired modern interpretations of art, literature, and architecture.

ISP 391-392 Art As a Lens for Science and Religion **3 credits each**
This course focuses on the ways religious art reflects the prevailing scientific and religious concepts of order through the ages. Using examples from prehistoric, classical Greek and Roman, Middle Ages, renaissance and Twentieth Century religious art and science, students study changes in the way God is described and imaged. Working in the art studio and the science laboratory, students experience the numinous power of natural forms and the unitive experience that symmetry fosters. Students engage in first order theological reflection on these experiences, do further research into the history of the art-science-religion relationship and draw implications for future opportunities for dialogue. Offered 2003-4 and 2004-5.

INTERNATIONAL BUSINESS, LANGUAGE, AND CULTURE

John Gerace, Ph.D., P.E., Chair, Business Administration Department
Ann Cerminaro-Costanzi, Ph.D., Chair, Foreign Language and Literature Department

The International Business, Language, and Culture Major is an interdisciplinary, globally oriented program that includes a strong language component. It will provide solid preparation for a career in international business, in both profit and not-for-profit organizations, competence in French or Spanish language and culture, and a foundation for graduate study. Supporting courses in other departments complement the major requirements.

Ways of Knowing Recommended Courses

- ***Historical*** (2 courses)
  Recommended:

HIST	210	Europe in the 20th Century	
HIST	212	Culture and Society in Modern Europe	
HIST	219	France and the Modern World	
HIST	228	Women in Modern European Society	
HIST	231	History of American Foreign Relations	**6 credits**

- ***Artistic***
  Recommended:

ARTST	220	Art by Heart	
MUS	107	North American Music, Art, Culture	
ART	101-102	The History of Western Art	**3 credits**

- ***Scientific:*** *Recommended:*

BIO	106	Ecology and Environmental Issues	
BIO	125	Aquatic Plants and Animals	
BIO	145	Environmental Issues of Forests and Fields	**7 credits**

- ***Problem Solving/Analytical:*** **MATH 225:** Introduction to Statistics **3 credits**

- ***Behavioral*** (2 courses)
  Recommended:

POLSC	130	International Law and World Order	
POLSC	122	Selected Topics	
SOC	104	Major Global Problems	
COM	110	Introduction to Communications	
COM	210	Interpersonal and Organizational Communication	
COM/SOC	251	Mass Media and Society	**6 credits**

Major Courses

Foreign Language

FREN	221		
or			
SPAN	201	Advanced Grammar	**3 credits**
FREN	222	French for Oral Proficiency	
or			
SPAN	202	Advanced Conversation and Composition	**3 credits**

FREN	217-218	Introduction à la Culture Française	
or			
SPAN	217-218	Introduction to Hispanic Culture	**6 credits**
FREN	228	Le Français Commercial	
or			
SPAN	150	Commercial Spanish	**3 credits**
French/ Spanish Literature (any)			**3 credits**
French/ Spanish Elective			**3 credits**

In addition, language practice will be a part of ***Culture in International Business Decision-Making, Senior Seminar, and the Internships.***

Business Courses

BUACC	103-104	Financial and Managerial Accounting	**6 credits**
ECON	105-106	Microeconomic and Macroeconomic Principles	**6 credits**
BUMKT	203	Marketing Principles	**3 credits**
BUMGT	204	Organization and Management of Human Resources	**3 credits**
BUFIN	304	Corporate Finance	**3 credits**
BUADM	102	Business Ethics	**3 credits**

- ***One course chosen from:***

BUADM	101	International Business	
BUMKT	206	International Marketing	
ECON	111	Introduction to Global Economics	
BUFIN	201	Principles of Finance: Money and Banking	**3 credits**

Interdisciplinary Courses (Business and Foreign Language)

BUMGT	304	Culture in International Business Decision-Making	**3 credits**
BUADM	401-402	Internship in International Business	**6 credits**
BUADM	396	Senior Seminar	**3 credits**

Other Required Courses

POLSC	118	International Relations	**3 credits**
MATH	195-196	Mathematics for Management and the Social Sciences	**6 credits**
COMAP	280	Information Management	**3 credits**
Elective			**3 credits**

DIVISION OF NATURAL SCIENCES

Joseph Kulkosky, Ph.D., Chair, Biology Department, and Assistant Professor of Biology

BIOLOGY DEPARTMENT

Joseph Kulkosky, Ph.D., Assistant Professor of Biology, Chair
Lakshmi Atchison, Ph.D., Professor of Biology
Robert Meyer, Ph.D., Professor of Biology
William R. Miller, Ph.D., Assistant Professor of Biology
Florence Edward Sullivan SSJ, M.T.S., Assistant Professor of Biology
Barbara Giuliano, Ed.D., Adjunct Faculty, Biology
Lisa McKernan, Ph.D., Adjunct Faculty, Biology

Biology, Molecular Biology and Environmental Sciences

The Biology Department supports the liberal arts tradition of Chestnut Hill College by providing fundamental knowledge in all areas of biology. The Biology major provides students with a sound and comprehensive understanding of information and issues in several sub-disciplines of the biological and biomedical sciences as well as a strong foundation in Chemistry, Mathematics, and Physics. The curriculum develops communication skills, problem solving abilities, analytical reasoning, and critical thinking. The goal is to meet the specific needs of individual students and to prepare them to be competitive when moving on to post-graduate education, other professional specialization, or careers in the life sciences.

To provide students with a well-rounded, solid education, all students receive a core of courses that provides a common broad base of sound scientific knowledge. Elective courses then complete the curriculum to further develop the student's expertise in a sub-discipline of Biology. Students exposed to such a multidisciplinary program should be better prepared to think in more global terms in their approach to the diversity of problems in the life sciences.

The curriculum leading to a major in Biology is designed to help the student understand the unifying concepts of the nature of life and to develop the laboratory skills needed for the study of organisms and the pursuit of sound scientific methodology. The major in Molecular Biology places a strong emphasis on the study of life processes at the molecular and biochemical level. The major in Environmental Sciences provides an in-depth foundation in environmental concepts as well as an appreciation of the interdisciplinary nature of the field. In addition to the three majors, the Biology Department offers minors in: Biology, Molecular Biology, and Environmental Sciences.

Our Internship Program provides biology majors with the opportunity to integrate academic learning with practical experience. Our major students who meet academic qualifications are encouraged to participate in the Biology Honors program that provides greater levels of challenge. Students can perform independent study during their Junior and Senior years under the direction of a department member, established scientist, or a physician at a graduate school or major research center. Chestnut Hill College students participate in various intercollegiate scientific seminars and often earn distinction.

Special Events:

The Biology Department sponsors two annual seminar series:

- The Biomedical Seminar Series, started in 1994, sponsors prominent speakers in the bio-medical field and in basic research.
- The Environmental Sciences Seminar Series, started in 2000, provides opportunity to learn about the unique activities in environmental research, issues and policies.

These seminars provide a forum for learning about recent advances in basic research, biomedicine and environmental science and expose students and faculty to prominent scientific and medical professionals. The meetings foster collaboration, interaction and career contacts for students pursuing careers in basic research, health, medicine, and environmental issues and policy.

MAJOR IN BIOLOGY

■ **Requirements** – *(77-82 credits) distributed as follows:*

- **Biology** (46-51 credits)
- The following required **Biology** courses:

BIO	101M-102M	General Biology for Majors
BIO	201	Cell and Molecular Biology
BIO	203	Anatomy and Physiology
BIO	206	General Zoology
BIO	217	Genetics
BIO	300	Experimental Methods and Design
BIO	407	Undergraduate Research Seminar

- At least three 300-level courses and at least two 400-level course chosen as electives, including one of the following courses in **Environmental Sciences:**

BIO	312	Watersheds & Stream Ecology
BIO	322	Forest, Field, & Canopy Ecology
BIO	325	Marine Biology
BIO	413	Conservation & Restoration Biology
BIO	415	Special Topics (if applicable)

- **Chemistry** (16 credits)

CHEM	131-132	Principles of Chemistry
CHEM	215-216	Organic Chemistry

- **Mathematics** (7 credits)

MATH	203	Analytic Geometry and Calculus I
MATH	204	Analytic Geometry and Calculus II
MATH	220	Probability and Statistics

- **Physics** (8 credits)

PHYS	121-122	General Physics

MINOR IN BIOLOGY

The minor in Biology is designed for students interested in biology in general or in preparing for health/medical areas. Because some courses have prerequisites and some are not given every year, a student interested in minoring in Biology needs to be advised by the Biology Department.

■ **Requirements:** *Six biology courses, including at least two above the 100 level.*

MAJOR IN MOLECULAR BIOLOGY

■ **Requirements** – *(85-87 credits) distributed as follows:*

- **Biology** (51-53 credits)
- The following required courses:

BIO	101M-102M	General Biology for Majors
BIO	201	Cell and Molecular Biology
BIO	203	Anatomy and Physiology
BIO	206	General Zoology
BIO	217	Genetics
BIO	300	Experimental Methods and Design
BIO	351	Molecular Biology
BIO	407	Undergraduate Research Seminar
BIO	411	Developmental Biology

- At least one 300-level course and at least one 400-level course chosen as electives.

- **Chemistry** (19 credits)

CHEM	131-132	Principles of Chemistry
CHEM	215-216	Organic Chemistry
CHEM	307	Biochemistry

- **Mathematics** (7 credits)

MATH	203	Analytic Geometry and Calculus I
MATH	204	Analytic Geometry and Calculus II
MATH	220	Probability and Statistics

- **Physics** (8 credits)

PHYS	121-122	General Physics

MINOR IN MOLECULAR BIOLOGY

The minor in Molecular Biology is designed for science, math, or computer science majors who have an interest in molecular biology and bioinformatics.

■ **Requirements** – *21 credits including:*

BIO	201	Cell Biology
BIO	217	Genetics
BIO	333	Evolution
BIO	351	Molecular Biology

- BIO 201 and BIO 217 should be taken prior to the 300-level courses

MAJOR IN ENVIRONMENTAL SCIENCES

■ **Requirements** – *(87-88 credits) distributed as follows:*

- **Biology** (50-51 credits)

- The following required courses:

BIO	101M-102M	General Biology for Majors
BIO	201	Cell and Molecular Biology
BIO	203	Anatomy and Physiology
BIO	206	General Zoology
BIO	217	Genetics
BIO	300	Experimental Methods and Design
BIO	312	Watersheds & Stream Ecology
BIO	322	Forest, Field, & Canopy Ecology
BIO	325	Marine Biology
BIO	333	Evolution
BIO	407	Undergraduate Research Seminar

- At least one 300-level or 400-level course chosen as an elective.
  Recommended Elective:

BIO	405	Environmental Study Tour

- **Chemistry** (19 credits)

CHEM	131-132	Principles of Chemistry
CHEM	215-216	Organic Chemistry
CHEM	242	Environmental Chemistry

- **Mathematics** (7 credits)

MATH	203	Analytic Geometry and Calculus I
MATH	204	Analytic Geometry and Calculus II
MATH	220	Probability and Statistics

- **Physics** (8 credits)
  PHYS 121-122 Principles of Physics

- **Other:** At least one of the following (3 credits):

PHIL	114	Environmental Ethics
ECON	109	Environmental Economics
SOC	211	Environmental Law

MINOR IN ENVIRONMENTAL SCIENCE

The minor in Environmental Science is designed for the non-major who has an interest in the more scientific aspects of environmental sciences.

■ **Requirements for a minor in Environmental Sciences** – *(6 courses)*

BIO	101-102	General Biology

Two of the following:

BIO	106	Ecology and Environmental Issues
BIO	125	Aquatic Plants and Animals
BIO	145	Environmental Issues of Forests and Fields
BIO	206	General Zoology
BIO	325	Marine Biology

NOTES TO STUDENTS:
All students in the Biology Department (Biology, Molecular Biology, or Environmental Sciences majors) are required to pass the first semester of a sequence course with a "C-" or better before moving on to the second semester of that course.

Note: For those students interested in post-graduate study: Most graduate programs of the types listed below require:

- Two semesters of biology
- Two semesters of general chemistry
- Two semesters of organic chemistry
- Two semesters of physics
- Two semesters of English composition

- Most **medical schools** require the MCAT exam. Non-science majors are advised to consider taking another year of biology to be well prepared for the MCAT.
- Most **veterinary schools** require the GRE general exam, as well as one semester each of Biochemistry and Microbiology.
- Most **graduate schools** in biological/biomedical areas require the GRE general exam. Some require the writing test and/or one of two subject tests (Biochemistry, Cell and Molecular Biology, or Biology).

Graduate programs of all three types *can vary* in their requirements. Students should consult the catalogs of the schools of their choice *early* in their undergraduate years in order to plan an appropriate course of study.

Course descriptions that are designated with a (S) fulfill the Scientific *Ways of Knowing* requirement of the Core Curriculum.

BIO 101-102 General Biology (S) **4 credits each**
A general course running the gamut from molecules to ecosystems, with emphasis on human life and the biological world. Topics include the unity among living things, human systems, development and heredity. Three hours lecture. Two hours laboratory. *BIO 101 is a prerequisite for 102.* Students are expected to take both 101 and 102. *Lab Fee; see fee schedule.*

BIO 101M-102M General Biology for Majors (S) **4 credits each**
A survey course of the biological sciences. Introduces students to the process of science and addresses the major disciplines of biology: cell and molecular biology, genetics, evolution, ecology, anatomy and physiology, zoology, and botany. Three hours lecture and three hours laboratory. *Lab Fee; see fee schedule.*

BIO 106 Ecology and Environmental Issues (S) **4 credits**
Specifically designed for the non-science major. Emphasizes the interdisciplinary nature of environmental issues. Basic scientific concepts of ecological theory are related to economic, political, and philosophical factors that influence environmental problems and their solutions. Lab concentrates on the interconnectedness of biotic and abiotic influences on ecosystem health using basic sampling and analytical techniques in local environments. Field trips are required. Three hours lecture. Three hours lab. *Lab Fee; see fee schedule.*

BIO 125 Aquatic Plants and Animals (S) **4 credits**
Specifically designed for the non-science major. Introduces students to fresh and saltwater habitats of the mid-Atlantic region. Focuses on familiarity with the ecology and inhabitants of the different habitats. Considers environmental problems and solutions for both freshwater and marine habitats. Field trips required. Three hours lecture, three hours lab. *Lab Fee; see fee schedule.*

BIO 126 The Biology of Cancer **3 credits**
An overview and perspective of both the scientific and clinical aspects of cancer. Emphasizes cellular and genetic models of cancer development in humans. Topics include: cancer epidemiology, basic concepts of malignant process, modern advances in tumor biology and molecular biology including the effects of a variety of agents (chemical, radiation, viruses, oncogenes) that cause human cancer. Examines major types of cancer as well as present methods of cancer prevention and treatment. Three hours lecture. Open to majors and non-majors.

BIO 131 Environmental Seminar Series (S) **1 credit**
A series of environmental topics designed to provide science and non-science students with an introduction to different environmental concerns or techniques. Topic varies from year to year. One hour lecture or two hours laboratory.

BIO 145 Forests and Fields (S) **4 credits**
Specifically designed for the non-science major. Serves as a field introduction to the ecology of the natural terrestrial habits of the Northeast. Features an interdisciplinary focus on environmental pressures on different forest types and "old fields". Stresses familiarity with plants and animals from these habitats. Three hours lecture and three hours lab. Field trips required. *Lab Fee; see fee schedule.*

BIO 201 Cell & Molecular Biology (S) **4 credits**
Examines cellular structure, function, and metabolism. Topics include biogenetics, protein structure and function, enzymes, cellular organelles and metabolism, nucleic acids, chromosomes, cellular communication and transport. Laboratory techniques microscopic methods, electrophoresis of proteins and DNA, spectrophotometric assays and cell culture techniques. Three hours lecture. Three hours lab. *Prerequisites: CHEM 132. Lab Fee; see fee schedule.*

BIO 203 Anatomy and Physiology (S) **4 credits**
Presents the organization of the human body to illustrate the interrelationships between form and function at the gross and microscopic levels of organization. The clinical significance of histology will be emphasizedin both lecture and laboratory. Since anatomical structures are adapted to perform specific physiological functions, a precise understanding of structure and function is best achieved through an integrated study. Bio 203 deals with integumentary, skeletel, muscular and nervous systems, including sensory organs and sensory receptors. Clinical considerations and unifying themes such as homeostasis will be emphasized throughout. *Prerequisite: Bio 206 or equivalent. Lab Fee, see fee schedule.*

BIO 206 General Zoology (S) **4 credits**
An introduction to the processes of life, the concepts of biological study, the relationships of the physical/chemical/biological world, and an overview of the anatomy and physiology of representatives of the zoological groups. Three hours lecture, three hours laboratory. Field trip may be required. *Lab Fee; see fee schedule.*

BIO 217 Genetics (S) **4 credits**
Introduces genetics at classical, molecular, and population levels. Topics include Mendelian genetics, linkage analysis, mutation, dominance relationships, quantitative genetics, the structure and properties of DNA, transcription, translation, recombination, DNA synthesis, and population genetics models. Laboratory exercises illustrate principles discussed in the lecture. Three hours lecture, two hours lab. *Lab Fee; see fee schedule.*

BIO 300 Experimental Methods and Design (S) **4 credits**
The course considers the philosophy and sociology of science, their interaction and impact on the methodology of experimental design, implementation, data analysis and ethical issues in biological research. Student teams design and implement small experiments, statistically analyze their data, perform peer reviews, write a short research paper, give in-class presentations, keep

lab notebooks, and prepare an end-of-semester research proposal. *Prerequisites: MATH 220.* Three hours lecture, three hours laboratory. *Lab Fee; see fee schedule.*

BIO 312 Watersheds and Stream Ecology (S) 4 credits
Considers the interactive nature of watersheds as they affect chemical, physical, and biological processes of the stream. A research approach is used with active participation on a stream research or monitoring project. Three hours lecture. Three hours lab. Field trips required. *Prerequisites: CHEM 216, PHYS 122. CHEM 242 is helpful but not required. Lab Fee; see fee schedule.*

BIO 317 Special Methods 3 credits
Designed to integrate general principles of education and the teaching process into the teaching of biology on a secondary level. Special focus on preparing and conducting laboratory experiments. Offered as needed. Required of all who seek secondary certification in biology.

BIO 318 Human Anatomy and Physiology (S) 4 credits
The course covers the cardiovascular, lymphatic, respiratory, digestive, urinary, reproductive and endocrine systems. In considering each system, structure and function are studied concurrently. It is essential that as study of the human body progresses, parts will be integrated into the whole. Clinical considerations and unifying themes, such as homeostasis will be emphasized throughout in both semesters. Three hours lecture. Two hours lab. *Prerequisite: BIO 203. Lab Fee; see fee schedule.*

BIO 322 Forest, Field, and Canopy Ecology (S) 4 credits
Considers the interactive nature of the terrestrial habitats, as they affect the chemical, physical and biological properties of the land. Scope includes urban and natural systems, and explores the open fields as well as the three dimensional aspects of forested land. A research approach is used with active participation on a forest or canopy research or monitoring project. *Prerequisite or concurrent: BIO 300.* Field trips required. Three hours lecture, three hours laboratory each week. Majors only. *Lab Fee; see fee schedule.*

BIO 324 Microbiology (S) 4 credits
Stresses the fundamentals of the discipline in this laboratory-oriented course. Studies the structure and function of prokaryotic and eukaryotic microorganisms with respect to metabolism, growth and development, and genetics. Three hours lecture, two hours laboratory. *Prerequisite: BIO 206. Lab Fee; see fee schedule.*

BIO 325 Marine Biology (S) 4 credits
Surveys different marine ecosystems with their biotic and abiotic factors. Concentrates on nearshore habitats. Emphasizes community interactions and current or projected environmental pressures. Field trip required. Three hours lecture and three hours lab. *Prerequisite: BIO 206. Lab Fee; see fee schedule.*

BIO 333 Evolution 3 credits
An introductory course on the theories and mechanisms of evolution – evolution of the universe, solar system, planets, geology of Earth, biochemical and molecular evolution, and the evolutionary history of life on Earth. Examines the evolution of cells, differentiation, developmental processes, the evolutionary relationships among organisms, speciation and the diversity of life. Three hours lecture. *Prerequisite: BIO 201, BIO 206, and BIO 217.*

BIO 351 Molecular Biology (S) 3 credits
An introduction to Molecular Biology. Topics include DNA replication, transcription, translation, regulation of gene expression, molecular evolution and recombinant DNA technology. Laboratory techniques include isolation and characterization of DNA and RNA, cDNA cloning, gene expression and bioinformatics. Three hours lecture and four hours lab. *Prerequisites: BIO 201, BIO 217, and CHEM 216. Lab Fee; see fee schedule.*

BIO 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

BIO 401-402 Internship Program 3 credits each
Provides the biology major the opportunity to integrate academic learning with practical experience. Students should begin to explore their internship prospects by the end of their sophomore year. Requires 8 to 10 hours off-campus per week per semester, usually accomplished in the Spring semester of Junior year and/or the following summer.

BIO 403-404 Cooperative Education **(See page 26)**

BIO 405 Environmental Study Tour **4 credits**

An extended field trip to experience and or study environmental issues. Course varies year to year. It may go to a special international location such as Costa Rica, the Amazon, Australia, or it may be a journey across a continent or through a specific environment. For example: North American Experience I is a 30-day van/camping trip from CHC to the California coast and back, stopping at places like the Smokey Mountains, the Grand Canyon, Death Valley, Yosemite, Monterey, the Rocky Mountains, and Tall Grass Prairie National Parks to understand the structure, changes and beauty of the land, its people, and animals. A journal, evening campfires, and a presentation are required. Generally offered in summer or between semesters. Course may be taken more than once to different locations. *(Cost to be determined)*

BIO 407 Undergraduate Research Seminar **3 credits**

Study and discussion of topics relating to an independent laboratory or field research project in the area of biomedical and/or biological sciences. Course includes oral and written presentation of student research projects as the major criteria. Students are expected to participate in a research project appropriate for their major. Emphasis is placed on participation in classroom discussions on various research projects Students with double majors are required to conduct two independent, research projects, each appropriate for the major.

BIO 410 Immunology (S) **4 credits**

An introduction to immunology. Topics include humoral and cellular immunology, immunogenetics, immune regulation, hypersensitivity, autoimmunity and immune diseases Laboratory techniques include, cellular assays, immunodiffusion assays, ELISA, and antibody isolation . Three hours lecture. Three hours laboratory. *Lab Fee; see fee schedule*. *Prerequisites: BIO 201, BIO 203, and BIO 217.*

BIO 411 Developmental Biology (S) **4 credits**

Classical embryology and biochemical, molecular biology and evolution of animal development. Topics include fertilization, cleavage, gastrulation, cell differentiation, induction, positional information, organ and pattern formation. Laboratory includes microscopic examination of animal development and biochemical analysis of molecular mechanisms of development. *Prerequisite: BIO 201, BIO 203, and 217. Lab Fee; see fee schedule.*

BIO 412 Endocrinology **3 credits**

Covers endocrine systems, a short chronology of endocrine research and endocrine glands, with emphasis on mammalian systems, particularly that of humans. The concept of homeostasis with special reference to the roles of chemical messengers in the control of homeostatic systems. Topics include endocrine function, hormone-receptor mechanisms, sites of hormone action, structure of endocrine glands, mechanisms of hormone secretion and transport, factors which control hormone action, and hormonal interaction as well as endocrine malfunctions leading to clinical disorders. Three hours lecture. *Prerequisites: BIO 203, BIO 318 and CHEM 131-132.*

BIO 413 Conservation and Restoration Biology (S) **3 credits**

Teaches the concept of conservation as applied to ecosystems such as forests, watersheds, and estuaries relative to all the wildlife as well as the threatened plants and animals. Introduces the ideas of sustained use, limited use, and protected use. Incorporates the emerging field of restoration. Teaches the ideals behind cleaning up spills, rebuilding eroded banks, and recreating an environment where the natural and native plants and animals can flourish again. *Prerequisites: BIO 206.* Field trips required. Two hours lecture, two hours lab per week. Majors only. *Lab Fee; see fee schedule.*

BIO 415 Special Topics **3 or 4 credits**

An in-depth study of selected topic areas in biology. Topic varies from year to year. Past topics have included human disease, human nutrition, animal nutrition, and biochemistry of inherited diseases. May include a laboratory depending on the area covered. Requires permission of instructor as prerequisites may vary. *Lab Fee when required; see fee schedule.*

CHEMISTRY and PHYSICS

Grace A. Banks, Ph.D., Professor of Chemistry and Physics, Co-Coordinator
Kelly Butler, Ph.D., Assistant Professor of Chemistry
Kathleen Duffy, SSJ, Ph.D., Professor of Physics
Sheldon Miller, Ph.D., Associate Professor of Chemistry, Co-Coordinator

The mission of the **Chemistry** Department is to engage students in a critical examination of the concepts and practice of the discipline of chemistry; to involve them in problem solving based on the scientific method; to develop ability in experimental design and technique; and to prepare them for professional work in the scientific community.

The Department offers majors or minors in **Chemistry** or **Biochemistry.** This flexibility allows a student to choose courses that emphasize personal goals. Students in either major can prepare for research, industry, or business; for graduate study; for professional programs in medical schools and other health professions; and for certification to teach science in secondary schools.

* Students are admitted to the second semester of a continuation course only if they have attained a minimum grade of "C-" in the first semester of the course.

Chemistry

■ Requirements for a major – *59 credits, distributed as follows:*

- **Chemistry** (43 credits)

CHEM	131-132	Principles of Chemistry
CHEM	201	Introduction to Chemical Information and Technical Communications
CHEM	215-216	Organic Chemistry
CHEM	270	Analytical Chemistry
CHEM	313-314-315	Physical Chemistry
CHEM	319	Research Seminar
CHEM	340	Inorganic Chemistry

Two additional upper level courses in Chemistry.

- **Mathematics** (8 credits)

MATH	203-204	Analytic Geometry and Calculus
or		
MATH	211-212	Calculus and Modern Analysis

- **Physics** (8 credits)

PHYS	121-122	Principles of Physics

- ***Secondary Teacher Certification*** *will be awarded to students who complete* ***CHEM 317: Special Methods*** *and fulfill the Education requirements for Certification (see* *page 60**)*

■ Requirements for a minor:

- Six courses including:

CHEM	131-132	Principles of Chemistry
CHEM	215-216	Organic Chemistry

- The remaining courses must be chosen in consultation with Departmental advisor

Biochemistry

■ Requirements for a major – *62 credits, distributed as follows:*

- **Chemistry** (38 credits)

CHEM	131-132	Principles of Chemistry
CHEM	201	Introduction to Chemical Information and Technical Communications

CHEM	215-216	Organic Chemistry
CHEM	307-308-310	Biological Chemistry
CHEM	313-314-315	Physical Chemistry
CHEM	319	Research Seminar

- One additional upper-level courses chosen in consultation with adviser
- **Biology** (8 credits)

BIO	201	Cell and Molecular Biology
BIO	217	Genetics

- **Mathematics** (8 credits)

MATH	203-204	Analytic Geometry and Calculus
or		
MATH	211-212	Calculus and Modern Analysis

- **Physics** (8 credits)

PHYS	121-122	Principles of Physics

■ **Requirements for a minor:**

- Six courses:

CHEM	131-132	Principles of Chemistry
CHEM	215-216	Organic Chemistry
CHEM	307-308-310	Biochemistry

Course descriptions that are designated with a (S) fulfill the Scientific *Ways of Knowing* requirement of the Core Curriculum.

CHEM 103 Chemistry and Public Policy (S) **4 credits**

An introductory course for non-science majors who have little or no background in chemistry and minimal mathematical background. The chemical basis of environmental issues, nutrition, and genetic engineering will be discussed in their socioeconomic and political context. Laboratory exercises are designed to give students knowledge of scientific measurements and the reasoning required for interpreting experimental data. Emphasis will be on applying knowledge of chemistry to current public policy issues. Three hours lecture/discussion, two hours laboratory. *Lab Fee; see fee schedule.* Offered every Fall.

CHEM 106 Introduction to Forensic Science (S) **4 credits**

A course that focuses on the application of science in the criminal justice system. Emphasis will be placed on the common items of physical evidence encountered at crime scenes. We will study techniques of forensic analysis as well as procedures and practices relating to the proper collection and preservation of evidence. Laboratory activities will focus on techniques of analysis of evidence and on critical thinking. Three hours lecture, two hours laboratory. *Lab Fee, see fee schedule.* Offered alternate Springs.

CHEM The Chemistry of Art (S) **3 credits / 4 hours**

In this course, color and form will provide the focus for students to investigate, through a variety of lecture, and laboratory activities, the scientific basis of such topics as paints, clays and glazes, dyes and fabrics, polymeric materials, art preservation and restoration and chemical hazards in art. Two hours lecture, two hours laboratory. *Lab Fee; see fee schedule.* Offered alternate Springs

*** CHEM 131 -132 Principles of Chemistry (S)** **4 credits each**

Examines the principles and concepts underlying chemical behavior. Topics covered include the periodic table of the elements, the gas laws, chemical reactions, molecular structure, acids and bases, kinetics, and thermodynamics. Lab work includes qualitative and quantitative analysis and validation of lecture principles through inquiry-based activities. Problem solving skills are emphasized throughout. Three hours lecture, three hours lab. *Lab Fee; see fee schedule.* Offered every year.

CHEM 201 Introduction to Chemical Information and Technical Communication **1.5 credits**

Uses of electronic and hardbound chemical literature. Elements of research and writing in the chemical field. Ethical considerations in research. Students will be evaluated on written, oral, and poster presentation of library-based research. *Prerequisites: CHEM 132 or equivalent.*

*** CHEM 215-216 Organic Chemistry (S)** **4 credits each**

A two-semester introduction to the principles of organic chemistry. Focuses on the structure of organic compounds and how that structure determines reactivity. Laboratory work involves both preparative and mechanistic experiments as well as computer-based molecular modeling. Analytical methods include gas chromatography/mass spectrometry, and infrared, ultraviolet/visible and nuclear magnetic resonance spectroscopy. Four hours lecture, three hours lab. *Prerequisites: A "C-" or better in CHEM 132. Lab Fee; see fee schedule.* Offered every year.

CHEM 218 Medicinal Chemistry **3 credits**

A study of medicinal compounds such as pharmacodynamic and chemotheraputic agents, vitamins and hormones. Considers the relationship of physio-chemical properties of drugs to their biological activity. *Prerequisite: CHEM 215 or equivalent, or permission of instructor.* Offered alternate years.

CHEM 241 Toxicology **3 credits**

A survey of the scope and modern aspects of toxicology. Emphasizes clinical manifestations (symptoms and treatment) of acute, sub acute, and chronic intoxication, and current analytical methodology. Each type of poisoning studied is supported by actual case histories and analytical data. *Prerequisite: CHEM 215 or equivalent, or permission of instructor.*

CHEM 242 Environmental Chemistry **3 credits**

Examines sources and reactions of undesirable chemicals that have gotten into the atmosphere, water, and land through the activities of modern civilization. Investigates why these compounds are harmful to animal and plant life. Discusses technological responses (waste management, source reduction, and remediation) as well as societal and political responses. *Prerequisite: CHEM 215*

CHEM 270 Analytical Chemistry (S) **5 credits**

Qualitative and quantitative instrumental and wet methods of chemical analysis will be presented. Statistics, sampling, and calibration will be discussed. Methods covered include several titrimetric applications, chromatography, and the following spectroscopic methods: ultraviolet/visible, nuclear magnetic resonance, fluorescence, atomic absorption, and mass spectroscopy. Three hours lecture, four hours laboratory *Prerequisites: CHEM 215-216. Lab Fee; see fee schedule.* Offered alternate years.

CHEM 302 Advanced Organic Chemistry **3 credits**

An introduction to the field of physical organic chemistry with emphasis on qualitative molecular orbital theory, stereochemistry, and conformational analysis. Part of the course will focus on a topic in the current literature. Three hours lecture. *Prerequisites: CHEM 215-216.* Offered alternate years.

*** CHEM 307-308 Biochemistry** **3 credits each**

An introduction to biochemistry. Topics include protein structure, enzyme kinetics and mechanisms, allosteric regulation of proteins, intermediary metabolism, DNA replication, transcription, translation, gene structure, expression, and evolution. Three hours lecture. *Prerequisites: CHEM 215-216.* Offered alternate years.

CHEM 309 Special Topics **3 or 4 hours**

An in-depth study of selected topic areas in chemistry. Topics vary from year to year. May include a laboratory depending on the topic chosen. Requires permission of instructor since prerequisites vary. *Lab Fee when applicable; see fee schedule.*

CHEM 310 Biochemistry Laboratory **2 credits / 4 hours**

Laboratory techniques include protein and nucleic acid isolation and characterization, electrophoresis, blotting methods, spectrophotometry, immunochemical methods, lipid analysis. Four hours laboratory. *Corequisite: CHEM 308 Lab Fee; see fee schedule.*

*** CHEM 313-314 Physical Chemistry** **3 credits each**

Introduction to theoretical chemistry. Topics include: kinetics, laws of thermodynamics, chemical and phase equilibrium, electrochemistry, principles of quantum chemistry. Three hours lecture. *Prerequisites: CHEM 215-216, PHYS 121-122.*

CHEM 315 Physical Chemistry Laboratory **2 credits**

Laboratory exercises that will illustrate physical chemical principles. Four hours lab. *Corequisites: CHEM 313 or 314. Lab Fee, see fee schedule.*

CHEM 316 Advanced Physical Chemistry **3 credits**
Topics include: atomic and molecular structure, theoretical spectroscopy, statistical thermodynamics. *Prerequisites: CHEM 313-314.*

CHEM 317 Special Methods **3 credits**
Integrates general principles of education and the teaching process into the teaching of chemistry on a secondary level. Special focus on preparing and conducting laboratory experiments. Required of all who seek secondary certification in chemistry. Offered as needed.

CHEM 318 Advanced Instrumental Analysis **2 credits**
Project-based lab experiences that will build on and expand analytical techniques developed in organic and analytical chemistry courses. Four hours lab. *Prerequisites: CHEM 215-216, CHEM 270. Lab Fee, see fee schedule.*

CHEM 319 Research Seminar **1.5 credits**
The major focus of this course is the preparation and presentation of a research paper. Research is undertaken on or off campus, during summer internships or during the school year, in any area of chemistry or biochemistry. Lecture topics include how to write the various sections of a scientific paper, how to access and document sources properly, and how to assemble a research poster. Other topics include how to approach a research question, reading the literature critically, ethics in research, interviewing for graduate school and industry, and public speaking.

CHEM 320 Advanced Biochemistry **3 credits**
The course will present current investigative techniques using computational models to study the following topics; protein structure and function; polypeptide and protein folding; sequence analysis and homologies; search, retrieval, and use of protein databases; enzyme kinetics and reactivity; mutant and wil-type protein structure and reactivity. *Prerequisites: CHEM 307-8*

CHEM 340 Inorganic Chemistry (S) **5 credits**
Coverage includes periodicity and descriptive chemistry of the elements; symmetry, structure and bonding, solid-state chemistry and catalysis; reaction mechanisms of transition metal complexes; and spectroscopy. Prepares the student to understand current research in organic, organometallic and bioinorganic chemistry. Laboratory activities include synthesis and analysis of classical and organometallic complexes and solid-state compounds. Microscale, high temperature, light-activated and oxygen-free synthesis techniques will be employed. Analysis methods will include infrared, atomic absorption, visible, nuclear magnetic resonance, mass spectrometry, Three hours lecture, four hours laboratory. *Prerequisite: CHEM 215, or permission of the instructor. Lab Fee; see fee schedule.*

*** CHEM 351-352 Molecular Biology** **5 credits each**
(See Bio 351-352)

CHEM 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

CHEM 401-402 Chemistry Internship **3 credits each**
An off-campus experience to help the student to relate theories and skills to the practical aspects of a clinical or industrial laboratory. Requires on-site supervision by a faculty member, discussion with the laboratory director, and a written laboratory report.

CHEM 403-404 Cooperative Education (See page 26)

PHYSICS

The Physics curriculum aims to provide students with a theoretical and practical understanding of the matter and energy that constitute the Universe. Courses emphasize problem solving techniques as well as careful observation, experimental ability and laboratory technique. Subject matter deals with phenomena as large-scale as galaxy formation and as small-scale as nuclear fusion. Through the study of physics, students come to a better understanding of the Universe and their relationship to it, as well as the profound effect that science and technology have on human society.

The Physics curriculum provides a variety of experiences for the student. Several courses support the science and mathematics curricula, while others are designed for the non-science major.

Course descriptions that are designated with a (S) fulfill the Scientific *Ways of Knowing* requirement of the Core Curriculum.

PHYS 103 Earth Sciences (S) **4 credits**
An introductory course investigating topics in geology (rocks, minerals, earth structures), oceanography (topography of the ocean floor, water circulation, coastal zones) and meteorology (air movement, climate changes, weather patterns.) Offered as needed.

PHYS 104 Astronomy (S) **3 credits**
An introduction to the sky, the solar system, stellar evolution, deep space objects and cosmology as well as the tools used by astronomers to study the universe. Laboratory activities as well as the use of a 14” Celestron telescope and a planetarium instrument enhance the course material. Offered every Spring.

PHYS 107 The Science of Music (S) **3 credits/3 hours**
An introduction to the science of musical sound. Topics include the production, reproduction, and transmission of sound, the structure of the human voice and ear, the acoustical foundations of musical scales and instrument tuning, the design of listening rooms and musical instruments. Laboratory activities enhance the course material. Offered Fall 2004.

PHYS 121-122 Principles of Physics (S) **4 credits each**
A calculus-based introduction to the ideas of classical physics in which activities inform the lectures. Topics include mechanics, thermodynamics, wave motion and sound, electricity and magnetism, and light. Six hours of activity-based learning. *Prerequisites: MATH 203-204 or MATH 211-212. PHYS 121 offered every Fall; PHYS 122 offered every Spring.*

MATHEMATICAL SCIENCES

Judith Sullivan, M.Ed., Assistant Professor of Mathematics, Coordinator
Dolores Malecka, SSJ, M.S., Associate Professor of Mathematics
Merilyn Ryan, SSJ, Ph.D., Professor of Mathematics

The Mathematical Sciences curriculum is designed to develop the analytic skills required for an understanding and efficient use of mathematics. Courses emphasize both theory and application. Computers and graphing calculators are integrated into the courses, and emphasis is placed on the development of problem-solving skills.

The Department offers:

- A major in Mathematical and Computer Sciences.
- A minor in Mathematics.
- Courses designed to equip students in other majors with the mathematical knowledge necessary for their chosen fields of study.
- Courses for liberal arts students who wish to develop their appreciation of the power and beauty of mathematics.

Students who major in Mathematical and Computer Sciences gain a thorough grounding in both mathematics and computer science. The study of mathematics develops the ability to reason logically, to analyze and solve problems, to think abstractly and to express thoughts clearly and precisely. Computer science courses include the study of algorithms and their implementations, and a study of current languages and computer architecture. Students who major in Mathematical and Computer Sciences are prepared for graduate study, for positions in business and industry, for an actuarial career and for certification in the teaching of mathematics.

MATHEMATICAL AND COMPUTER SCIENCES

■ **Requirements for a major** – *40 credits distributed as follows:*

- **Mathematics:** 22 credits beyond MATH 211-212 or MATH 203-204, including:

MATH	213	Calculus and Linear Algebra
MATH	214	Calculus and Modern Analysis III
MATH	216	Abstract Algebra
MATH	220	Probability and Statistics
MATH	391-2	Modern Mathematical Theory- Seminar I and II

- Two of the following:

MATH	218	Discrete Methods in Mathematics
MATH	219	Differential Equations
MATH	223	Mathematical Modeling
MATH	301	Introduction to Operations Research
MATH	302	Fundamentals of Geometry
MATH	310	Special Topics

- **Computer Science** (18 credits)

COMSC	101	Introduction to Computer Science I
COMSC	201	Introduction to Computer Science II
COMSC	250	Data Structures
COMSC	350	Computer Architecture and Logic Design

Two upper level COMSC courses (200 level or above)
OR
COMAP 280 and one upper level COMSC course (200 level or above)

MINOR IN MATHEMATICS WITH A MAJOR IN NATURAL SCIENCES, HUMANITIES OR SOCIAL SCIENCES:

- **Requirements: 6 courses** including:

MATH	203 or 211	Calculus I
MATH	204 or 212	Calculus II

- Four of the following:

MATH	213	Calculus and Linear Algebra
MATH	214	Calculus III
MATH	216	Abstract Algebra
MATH	218	Discrete Methods in Mathematics
MATH	219	Differential Equations
MATH	220	Probability and Statistics
MATH	223	Mathematical Modeling
MATH	301	Introduction to Operations Research
MATH	302	Fundamentals of Geometry
MATH	310	Special Topics

- *Substitutions of recommended upper level courses taken to fulfill the minor may be made only with permission of the Department coordinator.*

MINOR IN MATHEMATICS WITH A MAJOR IN BUSINESS

- **Requirements– 6 courses** including:

MATH	195	Mathematics for Management and the Social Sciences I
MATH	196	Mathematics for Management and the Social sciences II
MATH	225	Introduction to Statistics I
MATH	226	Introduction to Statistics II

- ***Two** of the following:*

MATH	213	Calculus and Linear Algebra
MATH	218	Discrete Methods in Mathematics
MATH	223	Mathematical Modeling
MATH	301	Introduction to Operations Research
MATH	310	Special Topics

- *Substitutions of recommended upper level courses taken to fulfill the minor may be made only with permission of the Department coordinator.*

Mathematical Proficiency Requirement:

Every student must demonstrate the attainment of reasonable proficiency in mathematics. Incoming students will take a proficiency exam, and the results will determine whether the student has attained the required level or will enter a developmental program. Proficiency is required for all credited mathematics courses beyond MATH 101 – 102.

Students may not enroll in any mathematics course for which they are not qualified

Course descriptions that are designated with a (P) fulfill the Problem Solving *Ways of Knowing* requirement of the Core Curriculum.

MATH 099 Developmental Mathematics: Basic Skills and Principles **3 credits***

A fundamental course in basic mathematical skills, designed for students who are, for any reason, inadequately prepared for college level mathematics. Includes a study of the real number system and basic concepts of algebra. The course may be required for some students as a result of the Mathematics Proficiency Examination. *Students required to take MATH 099 must successfully complete it before registering for MATH 101.* *Credits from this course are not applicable toward a degree. Offered every semester.

MATH 101-102 Precalculus (P) **3 credits each**

A review and development of topics needed for the further study of mathematics including calculus. Includes: algebraic operations, equations and inequalities, algebraic and transcendental functions, analytic geometry and graphing. *Prerequisite for MATH 101: Math Proficiency level 2 or 3. Prerequisite for MATH 102: Successful completion of MATH 101 or Math Proficiency level 2.* MATH 101 offered every Fall, MATH 102 offered every Spring.

MATH 153-154 Basic Mathematical Theory and Applications (P) **3 credits each**
A development of basic mathematical concepts and skills needed by students in education and related fields. Emphasis on mathematical reasoning, problem solving, and connecting mathematics, its ideas, and its applications. Topics include: real number system; sets and logic; patterns, relations and functions; elementary number theory; geometry; measurement; probability and statistics. *Prerequisite for MATH 153: Math Proficiency level 1 or 2. Prerequisite for MATH 154: Successful completion of MATH 153 or permission of the Department of Mathematical Sciences.* MATH 153 offered every Fall, MATH 154 offered every Spring.

MATH 195 Mathematics for Management and the Social Sciences I (P) **3 credits**
A study of functions and linear models, polynomial and rational functions, exponential and logarithmic functions, modeling, mathematics of finance, linear systems and matrices, linear programming. Emphasis on applications to business, management, and the life sciences. *Prerequisite: MATH 102 or Math Proficiency level 1 or 2.* Offered every Fall.

MATH 196 Mathematics for Management and the Social Sciences II (P) **3 credits**
Differential and integral calculus with applications to business, management, and the life sciences. *Prerequisite: MATH 195 or Math Proficiency level 1 or 2 and permission of the Department of Mathematical Sciences.* Offered every Spring.

MATH 203 Analytic Geometry and Calculus I (P) **4 credits**
Elements of analytic geometry, functions, limits, differentiation, applications of the derivative. *Prerequisite: MATH 102 or Math Proficiency level 1 or 2.* Offered every Fall.

MATH 204 Analytic Geometry and Calculus II (P) **4 credits**
Studies and problems of integration, applications of the integral, integration of exponential, logarithmic, trigonometric and inverse trigonometric functions, methods of integration. *Prerequisite: MATH 211 or 203.* Offered every Spring.

MATH 211 Calculus and Modern Analysis I (P) **4 credits**
Functions, differentiation, applications of the derivative, Fundamental Theorem of the Calculus, integration. Includes computer laboratory experiences to reinforce many of the basic concepts of calculus and related mathematical procedures. *Prerequisite: Math Proficiency level 1.* Offered every Fall.

MATH 212 Calculus and Modern Analysis II (P) **4 credits**
Applications of the integral, integration of transcendental functions, methods of integration, improper integrals, indeterminate forms, Taylor's Formula. Includes computer lab experiences for exploratory and directed activities in calculus. Prerequisite: *MATH 211 or permission of the Department of Mathematical Sciences.* Offered every Spring.

MATH 213 Calculus and Linear Algebra (P) **3 credits**
Systems of linear equations, matrices and determinants, vectors in 2-space and 3-space, vector spaces, linear transformations, eigenvalues and eigenvectors. *Prerequisite: MATH 212 or 204 or permission of the Department of Mathematical Sciences.*

MATH 214 Calculus and Modern Analysis III (P) **3 credits**
Infinite series, plane curves, parametric equations, vectors and the geometry of space, differential calculus of functions of several variables and applications thereof, multiple integration with applications. *Prerequisite: MATH 212 or 204.*

MATH 215 Mathematics for Liberal Arts (P) **3 credits**
An enrichment course designed to emphasize the interrelationships between mathematics and other fields of human endeavor. Topics selected from a broad spectrum are covered in sufficient depth to convey to the non-specialist an appreciation of the power of mathematics and its contribution to the history of civilization. *Prerequisite: Math Proficiency level 1 or 2.*

MATH 216 Abstract Algebra (P) **3 credits**
A formal approach to abstract mathematics with emphasis on logical analysis and clarity of proofs. Includes a thorough exploration of group theory, commutative ring theory, and finite fields. *Prerequisite: MATH 212 or 204, and 213.*

MATH 218 Discrete Methods in Mathematics (P) **3 credits**
Introduction to basic techniques and modes of reasoning of combinatorial problem solving. Topics chosen from graph theory and combinatorics: graphs as models, trees, graph coloring, Eulerian and Hamiltonian circuits, elementary counting principles, permutations and combinations, inclusion/exclusion principle, recurrence relations. Required for Secondary Certification. *Prerequisite: MATH 212, 204, or 196.*

MATH 219 Differential Equations (P) **3 credits**
Theory and methods of solving first order, first degree differential equations, linear differential equations, equations of higher degree; selection from Laplace transformations, systems of equations, series solutions. Applications of differential equations. *Prerequisite: MATH 212 or 204.*

MATH 220 Probability and Statistics (P) **3 credits**
Organizing and describing data, general probability theory, standard distributions, significance tests, confidence intervals, regression and correlation. *Prerequisite: MATH 211 or 203.*

MATH 223 Mathematical Modeling (P) **3 credits**
Major techniques in developing basic models. Creative and empirical model construction, model analysis, and model research. These are studied by examples as well as by experiential projects incorporating the modeling process. *Prerequisite: MATH 212, 204, or 196.*

MATH 225 Introduction to Statistics I (P) **3 credits**
Summarizing data graphically and descriptively, elements of probability discrete and continuous distributions, sampling, construction of confidence intervals. *Prerequisite: Math Proficiency level 1 or 2.*

MATH 226 Introduction to Statistics II (P) **3 credits**
Sampling procedures; inferences about means, standard deviations, and proportions; regression and correlation; analysis of variance; nonparametric methods. *Prerequisite: MATH 225.*

MATH 301 Introduction to Operations Research (P) **3 credits**
Basics of operations research: applied linear programming, the simplex method, the dual problem and postoptimality analysis, the transportation and assignment problems. *Prerequisite: MATH 213.*

MATH 302 Fundamentals of Geometry (P) **3 credits**
The study of axiomatic systems, Euclidean, non-Euclidean and transformation geometries. Required for Secondary Certification. Offered when needed. *Prerequisite: MATH 213 or permission of the Department of Mathematical Sciences.*

MATH 310 Special Topics (P) **3 credits**
An in-depth investigation of a particular area of mathematics. Requires permission of the instructor, since the topic and its prerequisites may vary from year to year.

MATH 317 Special Methods in Mathematics **3 credits**
Covers topics considered essential for successful teaching of mathematics at the secondary level, including careful analysis of the standards and goals established by the National Council of Teachers of Mathematics. Students observe classes and meet for discussion on content, methods, lesson planning, test construction, and other items related to secondary teaching.

MATH 391-392 Modern Mathematical Theory: Seminar I and II **4 credits**
Seminars in selected topics such as cardinal numbers and ordering of infinite sets, characteristics of axiomatic systems, symbolic logic, Boolean algebras, number theory, history of mathematics, others according to interests of students. Students complete a research project incorporating both mathematics and computer science.

MATH 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

MATH 402 Internship **3 credits**
A program to provide the mathematics major with the opportunity to integrate academic discipline with practical experience in related fields. Open to qualified juniors. Requirement includes seminar and comprehensive paper related to the field experience.

MATH 403-404 Cooperative Education (See page 26)

PSYCHOLOGY

Scott Browning, Ph.D., Professor of Psychology, Interim-Chair
David Borsos, Ph.D., Assistant Professor of Psychology
Lynn Brandsma, Ph.D., Assistant Professor of Psychology
Meredith E. Kneavel, Ph.D., Assistant Professor of Psychology
Patrick McGuffin, Ph.D., Associate Professor of Psychology
Nancy Porter, Ph.D., Associate Professor of Psychology, Undergraduate Coordinator
Joseph Stewart, M.S., Adjunct Faculty

The Psychology Department offers courses that encompass the broad range of factors that shape human behavior. The influences related to biology, particularly the workings of the brain, from individual psychological processes such as cognitions and emotions, and the effects of sociocultural surroundings are all considered as students are exposed to the great breadth of the field. In addition, rigorous training in research methods prepares the students well for individual investigation and graduate study. Students also receive course credit for supervised field experiences through internships in their junior and senior years. The Psychology Department offers both a Major and a Minor in Psychology, and a five-year combined B.A./M.S. Degree in Counseling Psychology.

The Psychology Department sponsors Psi Chi, the Psychology Honors Society and the Psychology Club. Members of both organizations jointly sponsor and partake in activities such as guest speakers, demonstrations, and entertaining events.

MAJOR IN PSYCHOLOGY

■ **Requirements for a Major** – *36 credits including:*

Each of the following Psychology Courses:

PSYCH	101	General Psychology
PSYCH	216	Quantitative Methods in Psychology
PSYCH	313	Research Design in Psychology
PSYCH	320	Psychological Measurement
PSYCH	380	Senior Seminar in Psychology

- One or more courses from each of the following Content Areas:

Content Area 1: Applied Psychology

PSYCH	109	Psychology of Women
PSYCH	111	Industrial/Organizational Psychology
PSYCH	201	Special Topics in Psychology
PSYCH	202	Educational Psychology
PSYCH	212	Social Psychology
PSYCH	225	Psychology and the Law
PSYCH	314	Undergraduate Research

Content Area 2: Clinical Psychology

PSYCH	206	Theories of Personality
PSYCH	217	Abnormal Psychology
PSYCH	223	Theory and Practice of Psychological Counseling

Content Area 3: Developmental Psychology

PSYCH	103	Psychology of Child Development
PSYCH	104	Psychology of Adolescent Development
PSYCH	107	Psychology of Adulthood and Aging

Content Area 4: Experimental Psychology

PSYCH	207	Introduction to Cognitive Psychology
PSYCH	210	Physiology of Behavior
PSYCH	211	Sensation and Perception
PSYCH	240	Psychology of Health, Stress and Coping
PSYCH	250	Motivation and Emotion

Minor in Psychology

The minor in Psychology is designed for students interested in becoming aware of issues in psychology or in preparing for careers in human services or other mental health-related fields while pursuing another major. There is considerable flexibility in designing a minor that fits the student's needs and desires. Because some courses have prerequisites, are open to majors only, or are not offered every year, a student interested in a Psychology minor needs to be advised by the Psychology Department.

■ **Requirements for a minor** – *18 credits including:*

PSYCH	101	General Psychology

One or more courses from each of the following content areas:
(content areas are described in "Major in Psychology" section above)

- One or more courses from Content Area 1: Applied Psychology
- One or more courses from Content Area 2: Clinical Psychology
- One or more courses from Content Area 3: Developmental Psychology
- One or more courses from Content Area 4: Experimental Psychology

Combined B.A./M.S. Degree Program in Counseling Psychology

The B.A./M.S. Program in Counseling Psychology provides the opportunity for exceptionally qualified students to earn both a bachelor's degree and a master's degree in five years. Unlike other "three-two" programs which require students to complete undergraduate work before starting graduate work, this program allows study at undergraduate and graduate levels in a parallel format, creating a rewarding and challenging program to focused, qualified students. There is a financial benefit to participating students in that tuition is paid at the undergraduate rate for the first four years, even while the student is enrolled in graduate courses which results in a substantial savings in tuition costs.

Admission to the B.A./M.S. Program

The B.A./M.S. program is a professionally oriented program that is appropriate for applicants who are committed to a career in counseling psychology. Due to the rigorous curriculum of this program, a high school GPA of 3.00 and combined SAT scores of 1100 is the recommended standard for admission. There is a formal application process to the B.A./M.S. program which follows admission to the College and involves a written application to the admissions committee and an interview with members of the undergraduate and the graduate psychology faculty. This process is an effort to assess the applicant's readinness to pursue study in undergraduate psychology and a parallel graduate program focused specifically on the field of counseling psychology.

To obtain more information about admission to the combined B.A./M.S. Program in Counseling Psychology, please contact: Lynn Brandsma, Ph.D., B.A./M.S. Coordinator, 215.248.7049.

Course descriptions that are designated with a (B) fulfill the Behavioral *Ways of Knowing* requirement of the Core Curriculum. Course descriptions that are designated with an (A) fulfill the Analytical Ways of Knowing requirement of the Core Curriculum.

PSYCH 101 General Psychology (B) **3 credits**

An introduction to the nature, scope, and methods of psychology. Includes a survey of the processes of learning, memory, human development, social psychology, and symptoms, diagnoses and treatment of psychological disorders. Discusses the role of methodologies used to investigate the social and biological bases underlying human behavior. Required of Psychology majors. Open to non-majors. Offered every semester.

PSYCH 103 Psychology of Child Development (B) **3 credits**

Explores the psychological theories of emotional, social, cognitive, and physical development from the prenatal period through childhood. Contains an experiential component through personal research on cognitive transitions that occur during middle childhood. Offered every semester. Open to majors and non-majors. *Prerequisite: PSYCH 101.*

PSYCH 104 Psychology of Adolescent Development (B) **3 credits**
Examines the cognitive, emotional, physiological, and social developments that occur during adolescence. Emphasizes the psychosocial and environmental factors that increase adolescents' risk of abuse, addiction, alienation, delinquency, mental illness, and violence. Open to majors and non-majors. Offered every year. *Prerequisite: PSYCH 101.*

PSYCH 107 Psychology of Adulthood and Aging (B) **3 credits**
Includes the psychological transition from adolescence into adulthood. Explores social, emotional, cognitive and maturational changes during adulthood. Special emphasis on the effects of gender, race, socioeconomic status, health and disability as they relate to the experience of adulthood and aging. Open to majors and non-majors. Offered as needed. *Prerequisite: PSYCH 101*

PSYCH 109 Psychology of Women (B) **3 credits**
Considers interpersonal and familial relationships, family, education, career choice, and historical change as they relate to the lives of women in the US and globally. Emphasizes issues that affect growth and development such as social identity, self-esteem, and gender-typing. Feminist research and theory, current political trends, and personal experience are united in an effort to better understand the universal effects of gender on personal and psychological outcomes for women. Open to majors and non-majors.

PSYCH 111 Industrial/Organizational Psychology (B) **3 credits**
Considers employee motivation, job satisfaction, leadership styles, power and influence; work related stressors; job involvement and organizational commitment; and recruitment, selection, training. Emphasizes issues of fairness at work including compliance with equal employment guidelines; gender discrimination; enforcement of sexual harassment policies; comparable worth and pay equity. Open to majors and non-majors. Offered yearly.

PSYCH 201 Special Topics (B) **3 credits**
Topics vary, and include specialized topics touching on all of the areas of study in psychology. Recent topics include Ethics in Psychology, Counseling the Diverse Family, Psychopharmacology, Movies and Mental Illness, and the Psychology of Personal Growth. Offered as needed. Open to majors and non-majors. *Prerequisites may vary.*

PSYCH 202 Educational Psychology (See Education 202) (B) **3 credits**
Involves the application of psychological principles concerned with the processes of growth and development, thinking, learning and motivation to the problems of education. Principles of social psychology and mental hygiene are applied to educational problems in the home, school and community. Open to majors and non-majors. Offered every semester. *Prerequisite: PSYCH 101.*

PSYCH 206 Theories of Personality (B) **3 credits**
Involves a study of the major psychodynamic, behavioral, social learning, trait and humanistic theories of personality. Application is incorporated through various classroom techniques and assignments. Open to majors and non-majors. Offered yearly. *Prerequisite: PSYCH 101*

PSYCH 207 Introduction to Cognitive Psychology (B) **3 credits**
Provides an overview of contemporary research and theories concerning the structure and processes of the mind. Topics include information processing, artificial intelligence, sensory memory, masking effects, object recognition, attention, memory processes, language and decision-making. Offered as needed. Open to majors and non-majors. *Prerequisite: PSYCH 101*

PSYCH 210 Physiology of Behavior (B) **3 credits**
Provides a basic understanding of the biology of behavior. Exposure to a variety of aspects of neuroscience including the structure, function and communication of the nervous system as well as their role in emotions, eating, learning and other behaviors. Includes principles of pharmacology and discussion of the psychobiology of psychological disorders. Open to majors and non-majors. Offered yearly. *Prerequisite: PSYCH 101.*

PSYCH 211 Sensation and Perception (B) **3 credits**
Examines the field of perception: how we organize and interpret sensory information so that we can understand the external world. Topics to be covered include principles of psychophysics; the eye and brain; pattern perception; color vision; perception of depth, size and motion; hearing and auditory system; touch; taste and smell. Offered as needed. Open to majors and non-majors. *Prerequisite: PSYCH 101*

PSYCH 212 Social Psychology (B) **3 credits**
The study of how an individual's thoughts, feelings, and behaviors are affected by social influences. Topics include: persuasion; conformity; obedience; liking, loving, & interpersonal attraction; self-concept; social cognition; prosocial behavior; and prejudice. Offered yearly. Open to majors and non-majors. *Prerequisite: PSYCH 101.*

PSYCH 216 Quantitative Methods in Psychology (A) **3 credits**
Surveys statistical methods and concepts used in psychological research. Provides a foundation in descriptive and inferential statistics. Includes measures of central tendency and dispersion, hypothesis testing, factorial analysis of variance, correlation and regression, and cross-tabulation methods. SPSS statistical computing software is utilized. Open to non-majors with Departmental approval. Offered as needed. Required of Psychology majors. *Prerequisites: PSYCH 101 and fulfillment of the Math Proficiency Requirement.*

PSYCH 217 Abnormal Psychology (B) **3 credits**
Focuses on the study of abnormal behavior, classification of psychological disorders as well as possible causes, treatment options, prevention and prognosis. Examines the major theoretical perspectives in abnormal behavior. Open to majors and non-majors. Offered yearly. *Prerequisite: PSYCH 101.*

PSYCH 223 Theory and Practice of Psychological Counseling (B) **3 credits**
Reviews different theories of personality and their accompanying schools of counseling, including demonstrations by experienced counselors. Experiential exercises will help students to further develop basic listening and communications skills. Open to majors and non-majors. Offered yearly. *Prerequisite: PSYCH 101*

PSYCH 225 Psychology and the Law **3 credits**
Examines psychological principles in the practice of law, including forensic assessment of competence and insanity; mental disorders and criminal responsibility; eyewitness and expert testimony; tests of eyewitnesses' accuracy; ethical considerations of psychologists as expert witnesses; psychology of evidence; psychology of jury selection, dynamics, and deliberations; psychology of victims. Open to majors and non-majors. Offered as needed. *Prerequisite: PSYCH 101*

PSYCH 240 Psychology of Health, Stress, and Coping (B) **3 credits**
Examines various determinants of health outcomes. Includes the nature and causes of psychological stress; relationships between stress and susceptibility to disease; impact of beliefs on perceptions of health and recovery; management of stress through coping styles and strategies; lifestyle-related disease due to health compromising behaviors. Open to majors and non-majors. Offered as needed. *Prerequisite: PSYCH 101*

PSYCH 250 Motivation and Emotion **3 credits**
Examines the mechanisms involved in activating and directing behavior and in forming emotions. Analysis includes evaluation of the role of physiological, environmental, and cognitive variables in mediating the behavioral processes of thirst, hunger, sex, arousal, reward, stress, choice, consistency and achievement. Open to majors and non-majors. Offered as needed. *Prerequisite: PSYCH 101*

PSYCH 313 Research Methods **3 credits**
Provides comprehensive coverage of the major methods used in psychological research. Students receive extensive practice in designing, conducting, analyzing, and interpreting the results of research studies and writing reports in APA style. Offered yearly. Open to non-majors with approval of instructor. Required of Psychology majors. *Prerequisite: PSYCH 216*

PSYCH 314 Undergraduate Research Experience **3 credits**
Open to all Psychology majors interested in continuing research in psychology, and highly recommended if continuing with graduate study in psychology at the Master's and/or Doctoral level. Provides the opportunity for students to design, conduct, analyze, and report research findings in their own area(s) of interest. Research topics may be derived from any approved area in the field of Psychology, such as clinical, cognitive, developmental, experimental, organizational, and social psychology. Offered as needed. Open to non-majors with approval of instructor. *Prerequisite: Junior or Senior status PSYCH 313.*

PSYCH 320 Psychological Measurement **3 credits**
Includes fundamentals of test development and construction, evaluation, scoring, and interpretation, and survey methodology. Presents concepts of reliability and validity, and ethical considerations of psychological measurement. Examines tests used for the assessment of intelligence, personality, and abilities. Open to non-majors who have completed a course in statistics and obtain permission of the instructor. Offered yearly. Required of Psychology majors. *Prerequisite: PSYCH 216.*

PSYCH 380 Senior Seminar in Psychology **3 credits**

Focuses on current theories and research in the field of psychology. Attempts to integrate students' knowledge about psychology and provides an opportunity for a careful examination of critical, contemporary issues in psychology. Each senior presents a research report and an oral report on a contemporary topic. Offered yearly. Required and open to Psychology majors only. *Prerequisite: PSYCH 313 and senior status.*

PSYCH 400 Honors

Independent study during Junior and Senior years culminating in an honors thesis determined by the interests of the student. *By Departmental invitation only.*

PSYCH 401-402 Psychology Internship **3 credits each**

For psychology majors with Junior or Senior status. Provides practical and relevant experience in the field of psychology by working at an approved site. Selection of the site depends on student interest and approval of the department.

PSYCH 405 Teaching of Psychology **1 credit**

Presents information essential for teaching Psychology in high school or at the undergraduate level. Students have an opportunity to assist in a course. Offered as needed. *Prerequisites: Junior or Senior status, a minimum GPA of 3.00 in Psychology, and Departmental approval.*

PHYSICAL EDUCATION

Janice Rensimer Kuklick, M.Ed., Associate Professor of Physical Education, Chair

The Physical Education Department offers a program of activities that gives the student an opportunity to develop skills in various aspects of physical education as well as improving their health and quality of life, with physical activity. In order to graduate, all students must take two semesters of physical education, (usually in the first year) and pass a swimming test in the College pool. Participation in a varsity sport can be used to meet the physical education requirement, provided the student completes the season. Kirby students are required to take two semesters of physical education and pass a swimming test in the College pool.

Activities:

Karate	Indoor Soccer
Archery	Life Guard Training*
Badminton	Pickle Ball
Beginning Swim	Fitness for Life
Golf	Tennis
Water Aerobics	Body Sculpt
Water Safety Instructor*	Pilates/On the Ball

**Additional fee.*

Lifeguard Training requires a pre-test. This test consists of treading water for two minutes, swimming 500 yards continuously using the following strokes: crawl, breaststroke and sidestroke. Students must be 15 years or older. *Fee; see fee schedule.*

Water Safety Instructor Course (WSI) Must pass a pre-test of swimming and diving skills. Students must be 17 years old by the last scheduled day of the course. *Fee charged.*

Participation in a varsity sport may be substituted for regular class activity during any season, provided the student completes the season. Students should register for the varsity sport. Intercollegiate competition is scheduled as follows:

Fall: Men's Soccer, Women's Soccer, Women's Tennis, Women's Volleyball, Men's Cross Country, Women's Cross Country
Winter: Men's Basketball, Women's Basketball
Spring: Women's Lacrosse, Women's Softball, Men's Tennis, Men's Golf, Women's Golf

Students who choose to play intercollegiate volleyball or basketball should not schedule a night class since these teams practice and play games at night.

Students who choose tennis, lacrosse, cross country, soccer or softball should have afternoons free to practice and/or play games.

The Physical Education Department also sponsors the Healthy Living Program, English Channel Swim Club, and the Dance Team.

RELIGIOUS STUDIES AND PHILOSOPHY

Catherine T. Nerney, SSJ, Ph.D., Associate Professor of Religious Studies, Chair
Marie A. Conn, Ph.D., Professor of Religious Studies
Carolynne Ervin, M.A., Instructor of Religious Studies
Mary Kay Flannery, SSJ, D.Min., Assistant Professor of Religious Studies
Barbara A. Hogan, Ph.D., Assistant Professor of Religious Studies
Patricia O'Donnell, SSJ, Ph.D., Associate Professor of Philosophy

Religious Studies courses provide an opportunity for students to examine the nature of religious experience and belief. This exploration occurs within a theological framework designed to enable students to understand and articulate the central elements of the Christian faith tradition. At the same time, department members promote serious and critical conversation with students between this faith tradition and the questions and concerns arising from their lived experience and the needs of the world today. Students are also encouraged to investigate other religious traditions that provide a spiritual depth to the reality of the human experience.

The School of Undergraduate Studies offers a Religious Studies Minor and a Certificate in Religious Studies. (The certificate is for teachers and religious educators in parishes or schools in the Archdiocese of Philadelphia.)

Students who choose to pursue either the Religious Studies Minor or the Certificate in Religious Studies must complete an application form and confer with a faculty advisor. These forms may be obtained from the Chair of the Religious Studies Department.

GENERAL REQUIREMENTS

A student fulfills the Religious Studies requirement of the College by successfully completing two courses. The first of these two courses must be the 100-level CORE course in Religion and Culture. The second course must be at the 200-level. Most courses are designed for students who embrace the Christian faith tradition and belief system, while others are intended for those students who align themselves with no particular tradition, but who are invited to explore the nature of belief and religious experience as operative forces in human history and spirituality.

SPECIFIC REQUIREMENTS FOR A MINOR OR A CERTIFICATE IN RELIGIOUS STUDIES

The Minor in Religious Studies provides students majoring in other disciplines a cross-section of theological topics intended to deepen their theological literacy and scholarship. These subject areas are: Religious Traditions, Scripture Studies, Morality And Justice, Doctrine, Liturgy and Spirituality, and Interdisciplinary Studies. Students who minor in Religious Studies work under the guidance of a member of the department. Those who successfully fulfill the requirements for the Religious Studies Minor are also eligible to receive a **Religious Studies Certificate.** Both will be so noted on the student's official transcript.

■ Requirements for a minor – *18 credits distributed as follows:*

- the 100 -level course in Religion and Culture.
- five 200-level courses, with one from each of the subject areas.
- preparation and presentation of research paper under guidance of faculty adviser.

The **Religious Studies Certificate** is available to students who wish to teach religious education in Catholic elementary schools and/or in parish education programs in the Archdiocese of Philadelphia. Students completing a Certificate in Religious Studies work under the guidance of a Religious Studies faculty advisor. Satisfactory completion of the Certificate will be noted on the student's Official College Transcript.

■ Requirements for a Certificate

The Religious Studies Certificate is earned by successfully completing eighteen *(18) credits or six (6) courses in Religious Studies,* one of which must be at 100-level. The remaining five (5) courses may be taken in any of the subject areas offered to the Religious Studies minor. Students preparing for the Certificate, however, may take more than one course in any of these areas, rather than one course only in each of these areas

Core 100 Level Course

RELST	104	Religion and Culture

Religious Traditions

RELST	206	World Religions
RELST	207	Contemporary Christian Living
RELST	208	What Catholics Believe

Scripture Studies

RELST	209	Old Testament Studies
RELST	210	New Testament Studies
RELST	211	Women in the Bible

Morality and Justice

RELST	216	Fundamental Moral Theology
RELST	217	Contemporary Moral Issues
RELST	218	Biomedical Moral Issues
RELST	240	Introduction to Social Justice
RELST	242	Women in Society and Religion

Doctrine and History

RELST	219	Theology of God
RELST	220	Forgiveness and Reconciliation
RELST	225	Catechesis and Religious Development
RELST	241	Models and Mentors in Christian Tradition
RELST	244	Global Theology and the Cry for Justice

Liturgy and Spirituality

RELST	222	Marriage and Family
RELST	226	The Meaning of Death and Dying
RELST	234	Sacraments and Spirituality
RELST	235	Spirituality: A Life Journey

Interdisciplinary

RELST	250	Heart of the City

RELIGIOUS TRADITIONS

RELST 104 Religion and Culture **3 credits**

This introductory course is designed to invite students to reflect upon and examine the dynamic relationship between religious experience and culture. Emphasis is placed on the historical, theological, and sociological dimensions of the many cultures and religions of North America. Faith stories from people representing a multicultural cross-section of the major world religions are studies empathically and critically.

RELST 207 Contemporary Christian Living **3 hours**

Probes the possibilities of "meeting Jesus again for the first time" by examining his life as compassionate prophet and wisdom teacher from an historical–critical perspective. The course will raise new questions not only about the meaning of Christ but also about our own lives in light of contemporary issues and concerns.

RELST 208 What Catholics Believe **3 hours**

An overview of both the contemporary Catholic milieu and the factors that have contributed to the current state of the Church. Covers the major components of Catholicism: revelation, theology of God, Christology, Ecclesiology, Sacramentology, and Morality. Topics are investigated from the position of traditional belief and of modern scholarship.

SCRIPTURE STUDIES

RELST 209 Old Testament Studies **3 credits**

Explores the Old Testament in the light of modern biblical scholarship. Areas of concentration include creation material; covenant and roots of Israelite worship; the prophets; Wisdom literature; and apocalyptic literature.

RELST 210 New Testament Studies **3 credits**
Examines the New Testament in light of modern biblical scholarship. Attention is given to the literary forms of the gospels and letters; Jesus' public ministry and message; the role of Paul; and the apocalyptic mindset.

RELST 211 Women in the Bible **3 credits**
Focuses on the biblical narratives in which women play a pivotal role. Using techniques of modern biblical scholarship, retrieves stories of individual women and examines their roles in the texts. Considers the ancient cultures that form the backdrop to biblical texts.

MORALITY AND JUSTICE

RELST 216 Fundamental Moral Theology **3 credits**
Examines the moral decision-making process in light of biblical and Christian principles. Areas of study include the human act; conscience; moral development; and various ethical systems. Uses selected contemporary issues for discussion.

RELST 217 Contemporary Moral Issues **3 credits**
In depth examination of current moral issues, such as homosexuality, nuclear war, hunger, poverty, sexism, racism, etc. Attention is given to media presentation of these issues with a goal to critical evaluation of underlying principles.

RELST 218 Biomedical Moral Issues **3 credits**
Examines questions related to human life and death, including artificial insemination, genetic manipulation, surrogacy, abortion, euthanasia, and removal of life support systems. **Note: Open to Juniors and Seniors only**

RELST 240 Introduction to Social Justice **3 credits**
Seminar type course that explores issues of social justice in light of principles of biblical ethics and Christian social teaching. Extensive discussion of topics such as the feminization of poverty; the impact of defense spending on social programs; and the relationship between First and Second World consumerism and the Third and Fourth World destitution. Required readings include pertinent Church statements and current newspaper and magazine articles.

RELST 242 Women in Society and Religion **3 credits**
Examines the changing roles of women in society and in various religious traditions. Explores biblical foundations for an understanding of the basic dignity of women.

DOCTRINE AND HISTORY

RELST 206 World Religions **3 credits**
Examines humanity's evolving relationship with the supernatural. Studies primitive, archaic, and historic periods in the development of religion as background to modern religious systems and traditions. Explores several of the world's religions, including their belief statements; sacred writings; moral codes; relationship to other religions.

RELST 219 Theology of God **3 credits**
Examines the Christian understanding of God in light of contemporary women's consciousness and emerging global concerns. It posits the claim that an authentic theology of God needs to offer an adequate response to the pressing questions that confront each new generation.

RELST 220 Forgiveness and Reconciliation **3 credits**
Designed to ponder the stories, pursue the questions and perceive the gifts that lie at the heart of the human journey to forgive and reconcile. The course engages several disciplines: theology and psychology, literature and cultural anthropology. The goal is to move from sharing stories and learning theories to making choices and acquiring skills that embrace forgiveness as a graced way of life in a wounded world.

RELST 225 Catechesis and Religious Development **3 credits**
A study of Christian faith formation as expressed in the primordial gift, profession, and practice of a living faith-God's gift and our response. Attention is given to the gospel call intended for all Christians to proclaim the life, mission, and vision of Jesus to people of every age and nation. Examines contemporary models and theories of cognitive, moral, faith, and religious development.

RELST 241 Models and Mentors in Christian Tradition **3 credits**
A timely exploration of the lives and writings of great women and men throughout the centuries who have helped shape the Christian story. Considers feminist and other critical historical methods for retrieving and actualizing their message for today.

RELST 244 Global Theology and the Cry for Justice **3 credits**
Explores core aspects of the Christian theological tradition in light of emerging global concerns. By means of case studies, the voices of marginalized peoples of the world are highlighted for the ethical challenges in their urgent cries for justice, peace-making, and reconciliation. Provides opportunities to reflect on the radical nature of the call to Christian discipleship.

LITURGY AND SPIRITUALITY

RELST 222 Marriage and Family **3 credits**
Examines the nature and evolution of the marriage covenant through scripture and history. Explores issues such as human development, interpersonal relationships, communication, and lifestyle choices. Discusses contemporary challenges to marriage, such as career choices, finances, child care, and gender roles. **Note: Open to Juniors and Seniors only**

RELST 226 The Meaning of Death and Dying **3 credits**
Examines approaches to caring for the sick and dying. Explores the physical, psychological, sociological and theological aspects of the dying process. Discusses the role of religious ideals and values in enabling people to deal with dying and death. Considers rituals of death and the grieving process.

RELST 234 Sacraments and Spirituality **3 credits**
Explores the relationship between the sacramental/liturgical life of the Church and Christian spirituality. Attention is given to the reciprocal relationship between intimacy with God (prayer) and intimate life events (sacraments), as sacred moments when we encounter God with particular intimacy: birth, adolescence, conversion and reconciliation, friendship and marriage, common and ministerial priesthood, sickness and death, and Eucharistic-centered living.

RELST 235 Spirituality: A Life Journey **3 credits**
Through critical reflection, the student is drawn into an examination of faith as an anchor and guide in discovering life's meaning and value. The course examines central themes of spirituality, such as images of God; church; the self-in-relationship; it underscores the need for stories and symbols; for solitude and community; for contemplation and action in the context of the faith maturation process. **Note: Open to Juniors and Seniors only**

INTERDISCIPLINARY

RELST 250 Heart of the City **6 credits**
(A collaborative six-credit course – three credits in SOC 250 and three credits in RELST 250)
Examines the human person and the human condition from the academic disciplines of religion and sociology. Provides opportunities for first-hand experiences to enable the student to reflect more deeply on the human struggle for meaning, existence, and even survival. Through volunteer service, the student is given a unique vantage point for observing and sharing in the journey of life through the eyes, ears, and hearts of those who find themselves on the fringe of life in the heart of the city.

PHILOSOPHY

The study of philosophy invites students to an intensely personal adventure: the pursuit of "the examined life." By seeking acquaintance with great minds expressed in disciplined argument and in literature, the philosophy curriculum stimulates creativity and encourages the development of a responsible, thoughtful worldview and a personal value system that can meet the challenges of life in the twenty-first century.

Students are encouraged to consult the philosophy faculty to correlate their choice of philosophy courses with their major field of study.

Course descriptions that are designated with a (P,W) fulfill the Problem Solving *Ways of Knowing* requirement of the Core Curriculum, or are designated Writing Intensive courses.

PHIL 110 Introduction to Philosophy: World Views (P, W) **3 credits**

A study of various ways in which philosophers structure their views of the experienced world. Emphasizes historical context, critical analysis, the nature of philosophical thinking, and the relation between philosophy and other aspects of culture. Readings are selected from such philosophers as Plato, Aristotle, Descartes, James, and Dewey. Usually offered in alternative Fall semesters.

PHIL 112 Introduction to Philosophy: Ethics (P, W) **3 credits**

A study of major western ethical theories and their application to perennial and contemporary ethical issues. Emphasizes critical analysis, the relation between ethics and culture, and the significance of virtue-based ethical analysis. Credit hours may not be earned in both Philosophy 112 and 114. Usually offered in the Spring semester.

PHIL 114 Introduction to Ethics and the Environment (P, W) **3 credits**

A study of major western ethical theories and their application to perennial and contemporary ethical issues, with special focus on environmental concerns in both discussion and writing assignments. Emphasizes critical analysis, the relation between ethics and culture, the significance of virtue-based ethical analysis, and connections between environmental ethics and other ethical issues. Credit hours may not be earned in both Philosophy 112 and 114. Usually offered in the Spring semester.

PHIL 128 Introduction to Symbolic Logic (P) **3 credits**

An introduction to modern logical symbolism, the relation between modern and traditional formal logic, a brief history of logic, its relation to everyday language, methods of deduction in propositional, predicate, and relational logic. Offered as needed.

SOCIOLOGY

Elaine R. Green, Ed.D., Associate Professor of Sociology, Chair
Nancy DeCesare, IHM, Ph.D., Assistant Professor of Sociology
Paul Eisenhauer, Ph.D., Associate Professor of Sociology
Sara Ellen Kitchen, J.D., Associate Professor of Sociology
Guy Purnell, M.S., Adjunct Faculty

The Sociology Department offers a dynamic and flexible program in general Sociology with concentrations or minors in Criminal Justice and Human Services, which, through coursework and the proper use of electives and internships, is designed to prepare a major to meet the challenges of an increasingly diverse, technological, and global society. The curriculum prepares the student for graduate and professional education and employment in the fields of human services, law, criminal justice, business, and government.

All Sociology courses fulfill Behavioral *Ways of Knowing* with noted exceptions.

■ **Requirements for a Major** – *32 credits, distributed as follows:*

- **Sociology:** 32 credits including:

SOC	101	Introduction to Sociology
SOC	201	Social Inequality
SOC	300	Sociological Theory
SOC	302-303	Social Science Research Methods I and II
SOC	304	Senior Seminar in Sociology

Four additional courses
Internships and Practica may not be used to fulfill the required 32 credits in Sociology

■ **Requirements for a Minor** – *18 credits, including:*

SOC	101	Introduction to Sociology
SOC	201	Social Inequality
SOC	300	Sociological Theory

Three additional courses

CRIMINAL JUSTICE

■ **Requirements for a Concentration in Criminal Justice** – *35 credits*
■ **Requirements for a major in Criminal Justic**e – 44 Credits

SOC	101	Introduction to Sociology
		OR
SOC	103	Social Problems
SOC	201	Social Inequality
CJ	222	Administration of Criminal Justice
CJ	223	Criminal Law
CJ	225	Criminal Procedure
SOC	300	Sociological Theory
		OR
CJ		321 Criminology
SOC	302-303	Social Science Research Methods I and II
CJ 403	or 404	Practicum in Criminal Justice

Plus 4 Criminal Justice electives. (Sociology and Human Services courses can also satisfy this requirement.)

- ***Recommended***

SCI	106	Introduction to Forensic Science

■ **Requirements for a Minor in Criminal Justice** – 18 Credits

SOC	101	Introduction to Sociology
		OR
SOC	201	Social Inequality
CJ	222	Administration of Criminal Justice
CJ	223	Criminal Law
CJ	225	Criminal Procedure
CJ	321	Criminology
CJ	403 or 404	Practicum in Criminal Justice

HUMAN SERVICES

■ **Requirements for a Major in Human Services** – 50 Credits

SOC	101	Introduction to Sociology
		OR
SOC	103	Social Problems
HS	105	Introduction to Human Services
SOC	201	Social Inequality
SOC/HS	250	Heart of the City
HS	256	Social Welfare Policy
HS	257	Human Behavior and the Social Environment
		OR
PSYCH	212	Social Psychology
SOC	300	Sociological Theory
		OR
PSYCH	206	Theories of Personality
		OR
PSYCH	223	Theory and Practice of Psychological Counseling
HS	301 or 302	Fieldwork
SOC	302-303	Social Science Research Methods I and II
SOC	304	Senior Seminar
HS	358	Human Service Methods
HS	401 or 402	Fieldwork

• ***Other Requirements***

PSYCH	101	Introduction to Psychology
PSYCH	103	Psychology of Child Development
		OR
PSYCH	104	Psychology of Adolescent Development
		OR
PSYCH	107	Psychology of Adulthood and Aging
PSYCH	217	Abnormal Psychology

Sociology and Criminal Justice courses can also satisfy elective requirements in Human Services.

■ **Requirements for a Minor in Human Services** – 18 Credits

SOC	103	Social Problems
HS	105	Introduction to Human Services
HS	256	Social Welfare Policy
HS	257	Human Behavior and the Social Environment
HS	358	Human Service Methods
HS	401 or 402	Fieldwork

Course descriptions that are designated with a (B) fulfill the Behavioral *Ways of Knowing* requirement of the Core Curriculum.

Criminal Justice

CJ 220 Juvenile Justice (B) **3 credits**
A study of the American juvenile justice system from historical, legal and policy perspectives. Topics will include juvenile court, United States Supreme Court cases, juvenile probation, rehabilitation and prevention programs.

CJ 222 Administration of Criminal Justice (B) **3 credits**
An examination of law enforcement, the administration of justice and the correctional system in the United States. Includes some international comparison.

CJ 223 Criminal Law (B) **3 credits**
An exploration of the basic concepts and issues in substantive criminal law. Appellate case analysis will include definitions of crime, defenses to crime and contemporary controversial issues.

CJ 224 Criminal Investigation **3 credits**
Principles and practices for getting the maximum amount of information to solve a crime. Proper procedure in the handling of witnesses, informants, suspects and surveillants. Methods for discovering, interpreting and preserving the physical evidence left at the crime scene. Does not satisfy the *Ways of Knowing* requirement in the Behavioral Sciences.

CJ 225 Criminal Procedure (B) **3 credits**
An exploration of the constitutional areas of the criminal procedure. Appellate case analysis will explore such issues as search and seizure, arrest, confessions, right to counsel and recent Supreme Court decisions.

CJ 226 Deviance and Social Control **3 credits**
A sociological examination of deviant behavior and society's response to it. Focuses of the meanings of deviance within particular social contexts: deviant subcultures, political uses of deviance, moral crusades and social change.

CJ 227 Corrections (B) **3 credits**
Examines prisons and punishment. Topics to be covered include: philosophies of corrections, the development of prisons, institutional issues, penal reform and alternatives to incarceration.

CJ 228 Prison, Poorhouse and Hospital (Writing Intensive) (B) **3 credits**
An examination of the development of institutional means of caring for and controlling deviant and independent members of American society. The course will use primary and secondary materials to examine the evolution of prisons, mental institutions, poorhouses, hospitals and other institutions that emerged in the early nineteenth century. Field trips to appropriate sites will also be included.

CJ 230 Juvenile Delinquency (B) **3 credits**
An historical and contemporary study of youth crime. Topics will include: theoretical analysis, programs and policy, and current problems such as youth violence, drugs and gangs.

CJ 321 Criminology (B) **3 credits**
A study of the biological, psychological and sociological theories of crime. Classical theories, contemporary research and policy applications will be considered.

CJ 403 or 404 Practicum in Criminal Justice **3 credits**
Field placement in law enforcement, juvenile or adult courts, correctional agencies and community criminal justice groups related to the student's interest. Supervision by a field supervisor employed by the agency and a liaison from the College faculty.

HUMAN SERVICES

HS 105 Introduction to Human Services (B) **3 credits**
This course is designed to introduce students to the role of the human service professional. Students will examine the development of social welfare institutions, philosophies, practices and policies in diverse human service settings. A systems approach and generalist practice perspective will assist students in the development of core competencies necessary for problem solving and planned social change and advocacy efforts.

HS 219 Child Welfare **3 credits**

This course will explore the historical, current and emerging directions of child welfare policy. A wide range of services will be examined including foster care, adoption, family preservation and kinship. Aspects of protective services, including abuse and neglect, counseling, homemaker services. day care and financial assistance are explored in terms of the role of the child welfare practitioner. Distinctions between the United States and other countries will be made to identify possible changes for the future.

HS/SOC 250 Heart of the City (B) **3 credits**

(A collaborative six-credit course – 3 credits in HS/SOC 205 and 3 credits in RELST 250)

Examines the human person and the human condition from the academic disciplines of sociology, human services and religion. Provides opportunities for first hand experiences to enable the student to reflect more deeply on the human struggle for meaning, existence and even survival. Through service learning, the student is given a unique point for observing and sharing in the journey of life through the eyes, ears and hearts of those who find themselves on the fringe of life in the heart of the city. Requires 4 hours of service per week.

HS 256 Social Welfare Policy (B) **3 credits**

Analyzes social welfare in the United States and the role played by public and private agencies in the delivery of services. Special attention is given to welfare policy as it relates to the problems that confront urban America.

HS 257 Human Behavior and the Social Environment (B) **3 credits**

This course will explore human behavior in the social environment through the lens of a systems theory framework and practice. Students will assess and evaluate how individuals function within families, groups, organizations, institutions and communities during the key stages of the human lifespan. Developmental milestones and environmental issues will be explored. Particular attention will be given to human diversity and populations at risk through the use of vignettes and case examples.

HS 301 and 302 Human Services Fieldwork **3 credits**

Field placement for human services students at social welfare agencies, public interest groups, community health centers, programs for older adults and governmental organizations. Supervision by a field supervisor employed by the agency and a liaison from the College faculty. *Prerequisite: Junior Status.*

HS 358 Human Service Methods (B) **3 credits**

Analyzes methods, processes and practices used in human services. Skills needed for competent practice are studied. Interviewing, assessment, support systems, goal planning, empathy, brokering, professional ethics and advocacy are considered. *Prerequisite: HS 105.*

HS 401 and 402 Human Services Fieldwork **3 credits**

Field placement for human services students at social welfare agencies, public interest groups, community health centers, programs for older adults and governmental organizations. Supervision by a field supervisor employed by the agency and a liaison from the College faculty. *Prerequisite: Senior Status.*

SOCIOLOGY

SOC 101 Introduction to Sociology (B) **3 credits**

An invitation to the study of sociology. An analysis of the nature of human society and groups, cultural factors and social institutions. Areas covered include: stratification, socialization, family, gender, deviance, work and social change.

SOC 102 Sociology Through Film (B) **3 credits**

Examines key sociological concepts through viewing current and classic films and relating classic and contemporary readings in sociology. Prerequisite: SOC 101.

SOC 103 Social Problems (B) **3 credits**

Examines and explores the various social problems in American society and how they affect and are affected by societal attitudes. Theoretical perspectives will be applied to such problems as poverty, substance abuse, violence, sexism, racism, ageism and environmental problems.

SOC 104 Major Global Problems (B) **3 credits**

A study of several selected problems facing the world community today including the inequality of individuals, groups and nations, world hunger, population growth, environmental issues and was and peace.

SOC 114 Social Gerontology (B) **3 credits**
An introduction to the physical, cognitive and psychosocial aspects of aging. Students will be introduced to tagging issues by examining the demographic characteristics of this group. The course will focus on how these characteristics impact attitudes about older persons and aging, the provision of services to older adults as well as the development of aging policy issues.

SOC 125 The Family (B) **3 credits**
A cross-cultural and historical treatment of the institution of marriage and the family including a sociological analysis of the modern family, patterns of dating and courtship, and the problems besetting the contemporary family, family dissolution and its aftermath.

SOC 126 Gender and Society (B) **3 credits**
The dynamics of sex and gender in society. The social sources of human sexual identity, gender formation, sex-role stereotyping and correlated behaviors. A cross-cultural survey of institutional sex roles followed by an examination of sex roles in contemporary society. Topics include: "male" and "female" psychology, the structure of work and opportunity, the question of power, and the effects of changing sex-role definitions on the family, other intimate relationships and self-awareness.

SOC 127 Ethnicity (B) **3 credits**
Explores the current rise in the interest of ethnic roots within the context of the variety and experiences of America's numerous minority groups. Examines lifestyles, adaptations and problems of identity as well as assimilation, prejudice, discrimination and the differential success of varying groups in term of the history of their pre-and post-immigration experience in the United States. Includes global issues of ethnicity.

SOC 128 Rights, Responsibilities and Reform (B) **3 credits**
Classical and contemporary theories of social change critically examined in historical context. The relationship of social change to human communities, world ecology and world government is studied. Planning for change with attendant questions about global values and social policy will be considered.

SOC 200 World Justice and Care for Children (B) **3 credits**
A global study of human rights for children including an examination of historical and contemporary conditions, legal developments, child welfare programs, and current social and moral issues.

SOC 201 Social Inequality (Writing Intensive) (B) **3 credits**
An examination of structured social inequality. Among the major forms discussed will be class-based, racial and ethnic, and gender inequalities. Course emphasizes basic tools available to social scientists for exploring the social world.

SOC 205 Special Topics in Sociology (B) **3 credits**
An in-depth investigation of a topic chosen by the instructor.

SOC 210 Women and the Law (B) **3 credits**
A historical-sociological treatment of the relationship of women in the American legal system. Explores the successful and sometimes failed challenges mounted by women and their advocates in the areas of political and civil rights, domestic and reproductive issues, employment opportunities, criminal justice and education.

SOC 211 Environmental Law (B) **3 credits**
Introduces students to the evolving field of environmental law with a special focus on national and international issues. Studies specific cases regarding environmental degradation, protection and regulatory enforcement.

SOC 215 Sociology of Death (B) **3 credits**
A global study of life, death and dying from historical and contemporary perspectives. Topics include the social meaning of death, grief and mourning practices, hospice programs, suicide, euthanasia and mega death.

SOC 216 Sociology of Health and Medicine (B) **3 credits**
An analysis of health, illness and the health professions from a sociological and a socio-psychological perspective. Topics include health attitudes and behavior, the socialization of health professionals, the organizations of health care and patient-professional relationships.

SOC 250 Heart of the City (B) **3 credits**
(See HS 250)

SOC 300 Sociological Theory (Writing Intensive) (B) **3 credits**
Examines major ideas of classical and contemporary sociologists within their social context. Emphasizes the practical application of theoretical concepts, critical thinking about social topics and communicating ideas through writing.

SOC 302-303 Social Science Research Methods I and II **4 credits each**
A study of the research process including fieldwork, surveys, documentary research and experiments. An introduction to basic statistical concepts and data analysis. A lab is required each semester. Prerequisite: SOC 201 or approval of instructor. SOC 302 offered every Fall. SOC 303 offered every Spring.

SOC 304 Senior Seminar in Sociology **3 credits**
An in-depth exploration of developments in contemporary sociology. Each student presents a research report on an approved topic. Open to sociology majors only. Prerequisite SOC 300, 302 and 303. Offered every Fall.

SOC 400 Honors
Independent study during junior and senior years culminating in an honors thesis determined by the interests of the student. *By departmental invitation only.*

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Travel Directions

It is easy to reach Chestnut Hill College from the Pennsylvania Turnpike (Rt. 276), from Route 309, from the Blue Route (Route 476), from the Schuylkill Expressway (Rt. 76) and from Germantown Pike (Rt. 422).

FROM THE PENNSYLVANIA TURNPIKE:
Exit No.25 (Germantown Pike). Proceed four miles east on Germantown Pike to the College entrance, which is on the left immediately after the light at Northwestern Avenue.

FROM ROUTE 309:
Proceed South on 309 to Paper Mill Road. Go West on Paper Mill Road and continue straight on to Stenton Avenue. Follow Stenton to Northwestern. Turn left onto Northwestern and proceed to Germantown Avenue. Turn left on Germantown Avenue. Entrance is on your left.

FROM THE BLUE ROUTE (Rt. 476):
Exit at Germantown Pike-East (Exit N.8). Turn right at end of exit ramp onto Germantown Pike and proceed four miles to the College. Entrance is on the left, immediately after the light at Northwestern Avenue.

FROM PHILADELPHIA INTERNATIONAL AIRPORT:
Take I-95 South to Rt. 476 North (Blue Route) and follow instructions above from the Blue Route.

FROM WILMINGTON/WEST CHESTER:
Take Rt. 202 North to 76 East to Rt. 476 (Blue Route) and follow as above.

BY TRAIN:
Chestnut Hill College is also accessible by train. Both the Chestnut Hill East (R7) and the Chestnut Hill West (R8) Lines service Chestnut Hill from Center City and 30th Street Station. Chestnut Hill East (R7) also provides service from Trenton, NJ, and Northeast Philadelphia. If using the R7 (Chestnut Hill East), walk two blocks west on Chestnut Hill Avenue to Germantown Avenue. Take the L bus marked Plymouth Mall one mile west to the College Entrance.