



Loudonville, New York

***A Liberal Arts College  
with a Franciscan and  
Catholic Tradition***

2002-2003 Catalog, Volume 61



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**Right to Modify:** All information in this publication pertains to the 2002-2003 academic year to the extent that the information was available on the catalog preparation date. The information in this catalog is not to be intended as creating a binding contract between the student and Siena College. The College reserves the right to change requirements and regulations as necessary at any time without prior notice. This includes the right to modify admission and academic requirements, to change courses, graduation requirements, tuition, fees, and any other regulations affecting the student body.

## Communications Directory

Correspondence should be addressed to the College officers indicated below and mailed to:

SIENA COLLEGE, 515 Loudon Road  
Loudonville, New York 12211-1462.

**College Switchboard Telephone: (518) 783-2300 FAX: (518) 783-4293**

Academic Affairs - 783-2307, *Vice President for Academic Affairs*

Academic Records and Transcripts - 783-2310, *The Registrar*

Admissions and Catalogs - 1-888-AT SIENA, *Director of Admissions*

Alumni Relations - 783-2430, *Director of Alumni Relations*

Athletics - 783-2551, *Director of Athletics*

Career Center - 783-2339, *Director of Career Center*

Change of Address - 783-2310, *The Registrar*

College Chaplain - 783-2332, *College Chaplain*

Counseling Services - 783-2342, *Director, Counseling Center*

Departmental Programs, *Head of the Department*

Development - 783-2432, *Vice President for Institutional Advancement*

School Programs (School of Liberal Arts - 783-2325,  
School of Business - 783-2321, School of Science - 783-2440),  
*Office of the Dean*

Evening and Summer Sessions - 783-2341,  
*Director of Continuing and Professional Education*

Financial Transactions - 783-2317, *Vice President for Finance  
and Administration*

General College Policy, *President of the College*

Health Services - 783-2554, *The College Health Service*

Information and Technology Services - 783-2573, *Director of I & TS*

International Programs - 786-5047, *Director of International Programs*

Office of Institutional Planning and Research - 783-2380

Public Relations - 783-2431, *Director of Public Relations*

Registration - 783-2310, *The Registrar*

Residence Life - 783-2919, *Director of Residence Life*

R.O.T.C. Affairs - 783-2536, *Head of the Department of Military Science*

Scholarships and Financial Aid - 783-2427, *Director of Financial Aid*

Student Affairs - 783-2328, *Vice President for Student Affairs*

Student Employment - 783-2339, *Career Center*

Veterans' Affairs - 783-2310, *The Registrar*

## Academic Calendar September 2002 – August 2003

### September 2002

- 2 Labor Day
- Registration/Drop-Add
- 3 Registration Day/  
Drop-Add
- 4 First Day of Classes
- 11 Last Day to Add a  
Course
- 18 Last Day to Change  
from Credit to Audit

### October 2002

- 21 President's Holiday
- 24 Mid-semester Grades  
Due

### November 2002

- 7 Last Day to Drop with a  
'W' Grade
- 7 Last Day to Exercise  
Pass/Fail Option
- 26 Last Day to Drop with  
'WP' or 'WF' Grade
- 27-29 Thanksgiving Holiday

### December 2002

- 11 Last Day of Classes
- 12 Reading Day: Exams  
begin 6:30 p.m.
- 13, 14, Final Exams
- 16-19

### January 2003

- 20 MLK Day
- 21 Registration Day/  
Drop-Add
- 21 Last Day for Students to  
Complete 'I' Grades  
from Fall Semester
- 22 First Day of Classes
- 29 Last Day to Add a Course

### February 2003

- 5 Last Day to Change  
from Credit to Audit

### March 2003

- 3-7 Spring Break
- 21 Mid-semester Grades  
Due

### April 2003

- 4 Last Day to Drop with a  
'W' Grade
- 4 Last Day to Exercise  
Pass/Fail Option
- 17-21 Easter Holiday
- 22 Last Day to Drop with  
'WP' or 'WF' Grade

### May 2003

- 6 Last Day of Classes
- 7 Reading Day; Exams  
begin 6:30 p.m.
- 8-10 Final Exams
- 12, 13
- 17 Baccalaureate
- 18 Commencement
- 19 Summer Session I  
begins
- 26 Memorial Day Holiday –  
No Classes

### June 2003

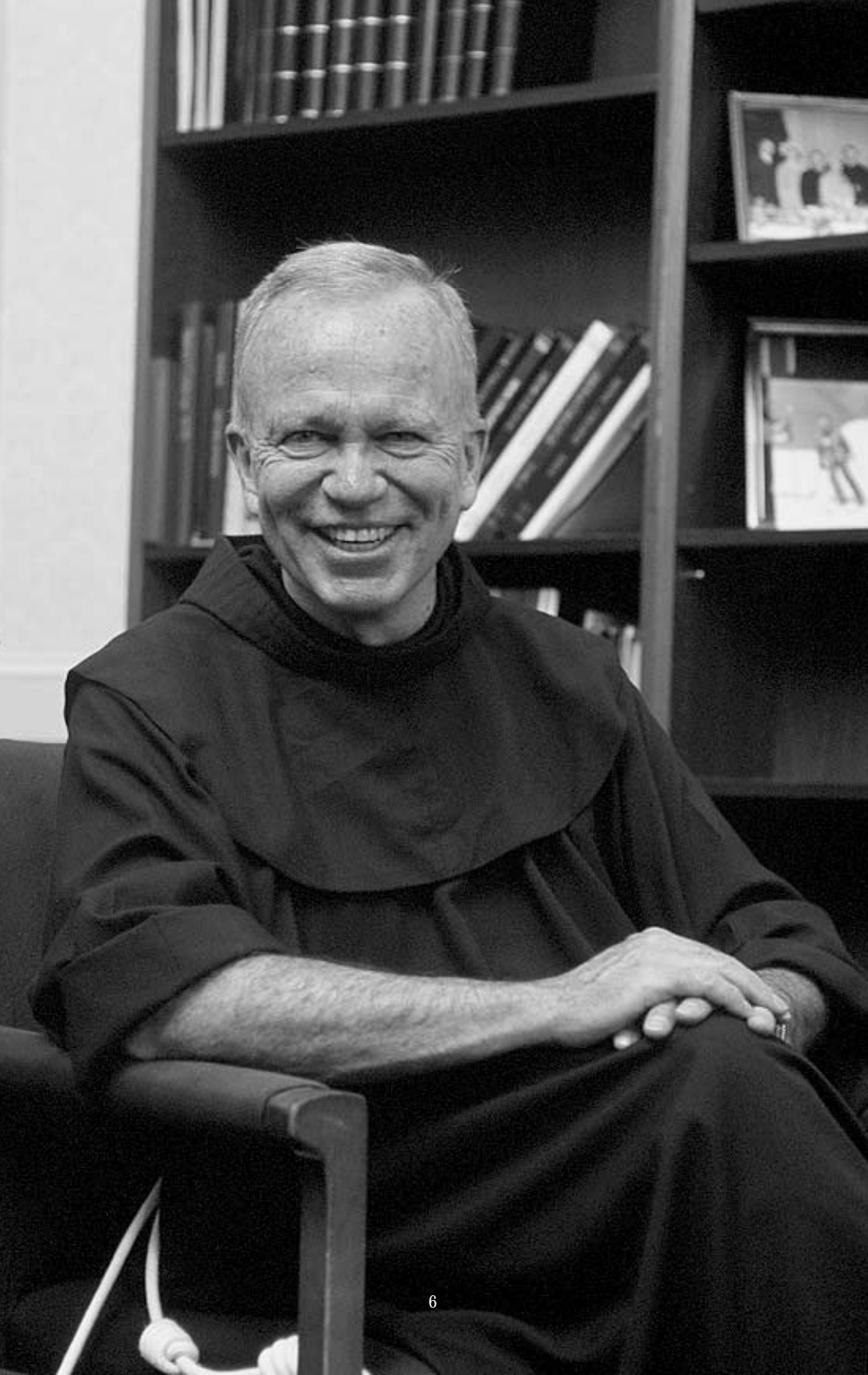
- 6 Last Day for Students to  
Complete 'I' grades from  
Spring Semester
- 13 Summer Session I –  
Final Exams
- 16 Summer Session II  
begins

### July 2003

- 4 Independence Day –  
No Classes
- 25 Summer Session II –  
Final Exams

### August 2003

- 25 Last Day for Students to  
Complete 'I' Grades  
from Summer Sessions



# Siena College

Siena College, founded in 1937, is a coeducational, independent, liberal arts college with a Franciscan and Catholic tradition. Situated in the attractive residential community of Loudonville, New York, Siena has an ideal location. It is easily reached from New York City, Boston, Buffalo and, of course, is in the center of New York State's Capital District.

The internal growth and development of Siena has been continuous. In response to the changing needs of our times, the Siena curriculum allows flexibility and individual choice for all undergraduates. Students serve with faculty on many campus committees. The College is governed by an independent self-perpetuating Board of Trustees. An active Board of Associate Trustees serves to strengthen the relationship between the campus and the surrounding community.

Recognizing that its students come from varied racial, ethnic and cultural backgrounds, Siena College supports the creation of a multi-cultural environment for all of its students. In line with this commitment, racism, whether in word or deed, is unacceptable. Racist acts will be subject to College disciplinary action.

## Founding of the College

Siena is a part of the tradition of higher education founded and nurtured by the Franciscan Order, the followers of St. Francis of Assisi.

At the invitation of Bishop Gibbons of Albany, the Franciscan Friars opened Siena in 1937 and placed it under the patronage of St. Bernardine of Siena, the illustrious 15th century Franciscan preacher. St. Bernardine is a fitting patron for a college for he embodies the rich and deep educational tradition that the followers of St. Francis bring to higher education. He stands also as a challenging example for the young, as a man who made the lessons of the classroom take on new life and as a lifelong student who carried his knowledge and wisdom into the busy market place and stately halls of government.

St. Bernardine serves then, not only as a patron, but as a model of the Arts and Sciences: above all, of the greatest art, which is the art of right-living, and the greatest science, which is the science of bringing to society the blessings of a truly liberal education.

Siena received its provisional charter from the Board of Regents of the University of the State of New York in 1938. Within four years, when the student population increased to almost 1,000, a permanent charter was granted.

## The Franciscan Liberal Arts Tradition

Siena College is a Catholic college with a strong liberal arts tradition, founded by followers of Francis and Clare of Assisi.

The Franciscan tradition of the pursuit of knowledge is likened to a dance: between the desire of the mind for understanding and intelligibility, and the longing of the heart for love and salvation.

This tradition developed nearly 800 years ago, when four professors at the University of Paris were received into the Franciscan Order. In the early years, St. Bonaventure of Bagnoreggio and Blessed John Duns Scotus in the arts, Roger Bacon in sciences and Luca Pacioli in the world of business, made scholarship a vibrant part of Franciscan life. Contemporary scholars such as Zachary Hayes, Ilia Delio, and many more, have kept the dance alive.

In light of this Franciscan tradition, which emphasizes intellectual, social and religious dimensions, Siena College seeks to foster scholarship, service and community.

Siena is committed to intellectual development, through critical thinking skills, leading to deeper awareness of questions that challenge human beings. To this end, the College encourages students to gain proficiency in scholarly inquiry, to develop their ability to analyze and synthesize and evaluate evidence in pursuit of truth, to make sound judgments, and to refine their skills in spoken and written communication.

The Franciscan tradition endeavors to make people more sensitive to important social, political and ethical issues of today, and more aware of their responsibilities to others. This encourages them to be witnesses to a positive relation between reason and faith, and to the fact that faith must always be engaged in a critical conversation with culture.

Siena College prepares its students for demanding lives and careers in the 21st century. In a world where many perceive education solely as a means for economic advancement, Siena offers a broader and more profound vision of life, with a unique perspective. This perspective is based on the life of Jesus Christ, given unique expression by Francis of Assisi.

So, at Siena, students, faculty, administrators and staff will learn that the greatest power is found in humble service, particularly with the poor and marginalized. The Siena College graduate brings this experience into the world.

The Franciscan intellectual tradition indicates that each person, every creature, and all of nature give reason to praise God. Ultimately, Siena College's unique liberal arts tradition is revealed in a diverse community, where people join in this pursuit of higher learning. People of all faiths and philosophies are called to foster the Franciscan tradition at Siena, with an appreciation and understanding of academic excellence and the essential role of religious faith in human life and destiny.

## **Mission Statement**

Siena College offers programs of study in the Arts, Sciences, and Business leading to the baccalaureate. It provides continuing education programs for the surrounding community. An independent college in the liberal arts tradition, Siena emphasizes in its programs the principles and values of Francis of Assisi. He was a man of God who recognized the goodness of all creation, who welcomed every human being as brother or sister, and who esteemed all labor no matter how humble. Siena thus affirms the unique worth of each

person and the responsibility of individuals to cooperate in the creation of a just and peaceful society.

Through its liberal arts curriculum, Siena strives to empower its students to address the challenges of an ever-changing world and a diverse society. Concentrated areas of study prepare students for specific careers and for post-graduate education.

To these ends, Siena fosters the intellectual and aesthetic growth of its students through personal interaction with the faculty and staff both inside and outside the classroom. The College provides opportunities to develop critical and creative thinking; to gather, synthesize, and analyze evidence in making reasoned and informed judgments; to appreciate cultural diversity; to deepen aesthetic sensibility; and to enhance written and oral communication skills.

Siena encourages students to develop their full potential as self-aware individuals of sound mind, body, and character who use their talents and skills in service to society. In a similar manner, the College recognizes its duty to share its resources with the larger community.

In essence, Siena is an academic, social and religiously appreciative community wherein students, faculty, staff, trustees and alumni work together with respect, with friendship and with joy.

## **Accreditation**

Siena is registered by the Board of Regents of the University of the State of New York. All programs are accredited by the Middle States Association of Colleges and Schools. In addition, the Chemistry program is certified by the American Chemical Society, and the Social Work program is accredited by the Council on Social Work Education.

## **Growth of Campus Facilities**

Siena College broke ground on its signature building, Siena Hall, in 1938. The building, completed in two stages, marked the start of a constant campaign to provide students with facilities designed to complement their learning and living experience. Between 1938 and 1950, Gibbons Hall (now known as Foy Hall), the St. Bernadine of Siena Friary (now known as Hines Hall), and St. Mary of the Angels Chapel were added to the campus.

In response to an increased interest in on-campus housing, Siena opened Plassmann and Ryan halls, each housing 275 students, as well as Serra Dining Hall in 1959 and 1962 respectively. In 1968 Hennepin Hall, with accommodations for 300 students, was opened.

Roger Bacon Hall, Siena's first science center, was opened in 1967.

The campus continued to expand in 1974 as the Alumni Recreation Center (ARC) was opened. The ARC houses Siena's indoor athletics program and major social, cultural, and academic programs. In 1992, the ARC expanded to include the Marcelle Athletic Complex (MAC). The addition

doubled the space available for student recreation use. The MAC includes a pool, aerobics/dance studio, weight room, indoor track, squash and racquet-ball courts, and a field house.

In 1981 a new, smaller Friary was constructed for the Franciscan community living at Siena. At the same time, Hines Hall was converted to a residence hall for 200 students, plus faculty offices and classrooms.

As the college grew in size, so did the demand for on-campus housing. To provide additional living space the college built a townhouse apartment complex to house 300 students that opened in the fall of 1986. Additional floors were also added to Plassmann and Hennepin halls, increasing their capacities by 200 students each. Additions to Serra Dining Hall were made to accommodate the increased number of residents.

In 1989 Siena's academic facilities were enhanced with the opening of Kiernan Hall. In 1992 Colbeth Hall and the Clare Center opened, housing faculty offices and classrooms, and the St. Francis House, home to the Institutional Advancement Office, was purchased and renovated. Additional townhouses, known as Cushing Village, were also constructed in 1994 and 1995.

More recently, the College opened the J. Spencer and Patricia Standish Library in September of 1999. The 72,000 square foot building, with more than 20 miles of wire built into the walls, provides access to 100 computer stations, 500 Internet connections, a computer laboratory, and a 40-seat screening room.

In April 2001, the Sarazen Student Union was opened. The union is home to the Pepsi Cafe, Student Communications Center, Student Senate Offices, Student Affairs Offices, the Siena College Bookstore, and O'Leary's Pub and Cafe. Foy Hall, the previous student center, was renovated and now houses the Career Center and Creative Arts department.

The Morrell Science Center opened in September 2001. The building is the home of our biology, biochemistry, and chemistry departments. The 55,000 square foot science center has 24 research labs, 10 teaching labs, and three support areas on three floors.

The latest building addition to Siena College is a new residence hall, Padua Hall. Padua has 96 double resident rooms, each equipped with complete bathroom facilities, computer network connections, air conditioning, and laundry facilities.

The Siena College campus continues to change through building additions and renovations. The enhancements provide Siena students with access to the latest technology in a welcoming learning and living environment. While the campus continues to change, visitors enjoy the consistent Georgian architectural elements reflected throughout the Siena campus.

## Library/Audiovisual Resources

The J. Spencer and Patricia Standish Library is a teaching library providing educational services, materials, and information to support the curricular and research needs of the students and faculty. The library collection of over 310,000 volumes consists of books, journals, microforms, compact discs, videocassettes, and a growing number of electronic information sources. More than 6,000 volumes are added annually and 1,200 serial subscriptions are currently maintained, with electronic access to over 2,500 additional journals. Patrons can access the online catalog, the library's Web site, and many other electronic resources through the campus network and the Internet. Professional librarians are on duty every day during the academic terms to assist students and faculty in their course assignments and research. Other services include individual and group instruction in the effective use of print and electronic resources, interlibrary loan, course reserves, rush cataloging, and audio-visual services. Through local and national resource sharing networks and agreements, Siena students and faculty have access to the holdings of libraries in the Capital District, throughout New York State and the United States.

During the academic year the Library is open Monday – Wednesday 8:00am to 1:00am; Thursday 8:00am to 11:30pm; Friday 8:00am to 9:00pm; Saturday 9:00am to 9:00pm; and Sunday 11:00am to 1:00am. Variations in the scheduling during other periods are posted in the lobby and on the Library's Web site.

The new J. Spencer and Patricia Standish Library offers attractive and inviting spaces for individual study and collaborative learning. Print, audiovisual and electronic resources are located in close proximity. Public workstations give students immediate access to the Internet and cd-rom resources. Audiovisual Services provide videocassettes, compact discs and other audiovisual resources; advanced listening and viewing facilities; and audiovisual support for classes and other educational programs.

## Information and Technology Services

Information and Technology Services provides access to computing services for all students and academic departments of the College. The staff and facilities are dedicated to student and faculty needs and are available to support them in their coursework and research.

Services available to students and faculty include: HelpDesk support, "How To..." documentation, and frequent training seminars. Equipment provided includes PCs, Macs, laser printers, thin clients and scanners. One PC lab is open 24 hours per day, 7 days per week; a second PC lab is available 24 hours per day, 7 days per week in the library. All students have accounts that provide access to electronic mail, the Internet and network file, print and application services. Communication on campus is supported by an extensive network of electronic mail, the Siena web page ([www.siena.edu/community](http://www.siena.edu/community)), and a message board system.

All academic and residential buildings are interconnected with a high speed Ethernet network. Every student residence space includes a connection point for access to the College's network and the Internet.

More than a dozen laboratories provide PCs and Macs to meet the general and specialized needs of students. In addition, there are in excess of thirty Electronically Enhanced Classrooms (EECs) on campus. Many of the Computer Science courses also provide experience with Unix. A dedicated server supports the library catalog and bibliographic search system.

Standard applications software supported include Microsoft Word (word processing), Excel (spreadsheet), Access (database), and PowerPoint (presentations). The Oracle database system is also available. Statistical tools include SPSS and Amos. Mathematica is used extensively in Mathematics courses. Additionally, Java, Perl, Visual BASIC, and C++ are used in a variety of courses. Many specialized software packages are also used in the lab and classroom facilities for languages, humanities, social sciences, natural sciences and business.

## Computer Ethics

This is a summary of the College's Computing Use Policy. The complete document is published in *Siena Life*, the student handbook, and is available on the Siena Web site ([www.Siena.edu/technology](http://www.Siena.edu/technology)).

The computing facilities are a resource of the College with access given for academic and research use. Accounts are to be used solely by the person to whom the account was given.

In order to continue to provide computer services to students and faculty at Siena, it is expected that all persons who are given access to the computing facilities will conduct themselves responsibly and professionally.

Student abuses of the privilege of access to the computing facilities will be adjudicated via the College's judicial system, following stated College policy on dishonesty and theft. Abuses of privilege include (but are not limited to):

- Use of another person's account (*with or without the owner's permission*).
- Reading, printing, altering, or deleting information from another account without permission of the owner.
- Damaging, modifying, replacing, or copying any licensed software.
- Damaging, modifying, or replacing any computer equipment.
- Use of any hardware or software in the pursuit of personal monetary profit.
- Harassment of any individual via use of any part of the Siena computer network.

The Director or Systems & Operations Manager of Information and Technology Services or their delegates may access users' private files during the investigation of possible abuses.

## Academic Integrity

The concept of academic integrity lies at the very heart of any college. This is particularly true of Siena with its strong Franciscan tradition and its dedication to fostering sound moral growth. In such an environment, academic dishonesty cannot be tolerated. Students who commit such acts expose themselves to punishments as severe as dishonorable dismissal from the College.

Academic dishonesty can take different forms, including, but not limited to: cheating [dishonesty in a test situation], plagiarism [dishonesty in the presentation of materials in a paper or report], and computer abuse. In any situation in which a student is unsure of what constitutes academic dishonesty, it is the student's responsibility to raise the question with his or her instructor. It is also the student's responsibility to be familiar with the student guidelines on academic honesty, "Academic Integrity and the Siena Student," which can be found in *Siena Life*.

The Siena Committee on Academic Integrity hears cases of alleged academic dishonesty. This student/faculty committee reviews evidence for and against the accused. If the student is found guilty, the committee will determine the appropriate sanction(s), which may include failure of the course, suspension from the College, or permanent dismissal. A statement of the reasons for such sanctions will be placed in the student's file.

Alleging ignorance of what constitutes academic dishonesty or of the College's policy on the subject will not be considered a valid explanation or excuse.



## Student Records

### Family Education Rights and Privacy Act of 1974

In compliance with the Family Education Rights and Privacy Act of 1974, Public Law 93-380 (as amended) the following policy became effective on January 1, 1975.

Siena College students or parents as provided by statute may review any official student educational records, files and data directly related to themselves that are on file with the College. Parents of a dependent student (income tax dependent) have the right of access to the student's record unless the student files a non-release form with the Office of the Registrar. Parents of an independent student do not have the right of access to the student's record without the written consent of the student. All students will be considered dependent unless the student submits a written notice of independent status to the Office of the Registrar.

### Student Access to Records

The files available include identifying data, academic work completed, grades, family background, information, references, rating, and/or observations and student judicial records. (References, ratings and/or observations completed before 1-1-75 are not available to students.) Requests to see the aforementioned materials should be made in writing to the Registrar, the Director of Career Resources or the Office of Student Affairs, respectively. The records, files, and/or data will be made available no later than 45 days from the time the written request is received.

Siena College will disclose information from a student's education records only with the written consent of the student (with certain exception). Student records, files and data will be made available to other individuals or agencies outside of the College only after the student himself or herself has authorized the release of the information. However, the following are exceptions:

- A. Other "school officials" whom the College has determined to have legitimate educational interests. School officials may include among other persons, a student serving on an official committee such as a disciplinary or grievance committee. School officials who have legitimate educational interests in the records would include a) a person employed by the College in an administrative, supervisory, academic or research or support staff position, including health or medical staff; b) a person elected to the Board of Trustees; c) a person employed by or under contract to the college to perform a special task, such as an attorney or auditor; d) a person who is employed by the College law enforcement unit; e) a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official is: performing a task that is in his or her position description or contract agreement, performing a task relating to a student's education, performing a task related to the discipline of a student; providing a

service or benefit relating to a student or student's family. Such as health care, counseling, job placement or financial aid; maintaining the safety and security of the campus. Authorized officials (e.g. officials of other schools in which the student seeks to enroll);

- B. Accrediting Organizations:
- C. In connection with a student's applications for, or receipt of, financial aid;
- D. In the case of an emergency if the knowledge of such information is necessary to protect the health and safety of the student or other persons.
- E. Information the College has designated to be directory information unless a hold has been placed upon the release of the information by the student. Director information may be released unless a student indicates otherwise at the time of registration. Students who wish no release of their Directory Information must inform the Registrar's Office in writing within 10 (ten) days of the date of the official college registration each academic year. A student may rescind a "no release clause" at any time in writing at the office of the college registrar.
- F. In compliance with Federal law, the disposition of cases of violent crime (to include sexual assault) will be released to the victim.

Siena College may release to parents of dependent students information regarding their son or daughter.

The following is considered directory information: the student's name, address, (both local and permanent, to include email address), telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, photographs, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student.\* Directory information will not be made available to the party requesting it unless the appropriate administrative officer of the College has considered and approved the request.

A student or parent as provided by statute may request in writing a review of information that he or she feels may be inaccurate and/or misleading. The review will be conducted by an appropriate administrative officer of the College who does not have a direct interest in the outcome.

Materials will be reproduced at a cost of \$.50 per page for records and \$5.00 for a transcript.

\* *This information may be released by the College without the consent of the student unless the concerned party has specifically requested in writing that his or her consent be obtained.*

## Siena College Health Requirements

### A. Policy Statement

The Siena College Health Service will comply with, uphold and enforce relevant provisions of the New York State Public Health Law, Article 21, Title VI, and Section 2165 as it pertains to this college. Siena College is committed to providing a safe and healthy environment for its students with regards to communicable diseases, including Measles, Mumps, Rubella, Tuberculosis, Tetanus and Diphtheria. The College recognizes and accepts its responsibility under applicable state law and considers recommendations from the America College Health Association and U.S. Centers for Disease Control & Prevention.

### B. Definition of Student

Part-time student — Any person enrolled in a minimum of 6 but less than 12 credit hours per semester.

Full-time student — Any person enrolled in 12 or more credit hours per semester.

### C. Specific Requirements

1. All full-time students are required to submit a completed Siena College Health Record. The physical exam must be performed within 6 months of admission for new students and students that have been readmitted to the college after an absence of two years or more.
2. Full-time and part-time students born after January 1, 1957, are required to provide proof of immunity to Measles, Mumps, Rubella, Tetanus/Diphtheria at the time of registration. Documentation of tuberculosis status is also required, regardless of age.
  - a. **Measles** (rubeola): Proof of immunity shall consist of one of the following:
    - two immunizations given after 1967, at least 30 days apart, on or after the first birthday; evidence of the disease documented by a physician (MD or DO); or documentation of an adequate immune titer.
  - b. **Mumps** (infectious parotitis): Proof of immunity shall consist of one of the following:
    - one immunization given after 1967, on or after the first birthday; evidence of the disease documented by a physician (MD or DO); or documentation of an adequate immune titer.
  - c. **Rubella** (German Measles): Proof of immunity shall consist of one of the following:
    - one immunization given after 1967, on or after the first birthday; evidence of the disease documented by a physician (MD or DO); or documentation of an adequate immune titer.
  - d. **Tetanus/Diphtheria**: evidence of an initial series of tetanus/diphtheria vaccinations as a child and/or recent vaccination with either tetanus toxoid or combined tetanus/diphtheria toxoid within 10 years.
  - e. **Tuberculosis**: evidence of a negative tuberculin (PPD) skin test within the past six months or a chest x-ray ruling out active tuberculosis. Positive skin tests will require a referral to the Chest Clinic

- of the local county Public Health Department (see section on enforcement below).
3. Students seeking religious exemption from these requirements must comply with applicable state regulations. Students under 18 years of age must submit a written statement signed by his/her parents or guardian stating that they hold genuine and sincere religious beliefs contrary to the practice of immunization. Students 18 years or older must submit a statement themselves to qualify for religious exemption. This statement must describe the beliefs in sufficient detail to permit the college to determine that the beliefs are religious in nature (not philosophical), and sincerely and genuinely held. Students that qualify for religious exemption will be required to leave the campus in the event of an outbreak of one or more disease(s) and will remain away from campus until two weeks after the outbreak is over.
  4. Medical exemptions from this requirement may be granted at the discretion of the Health Service Director for reasons such as pregnancy, history of anaphylaxis, AIDS, and other relevant disease states. Non-immunized students will, at the discretion of the Health Service Director, be required to leave the college in the event of an outbreak of one or more disease(s) and will remain away until two weeks after the outbreak is over.
  5. All students (as defined above) must provide health information on the appropriate form and submit it to the Siena Health Service. The Health Service will maintain the records while the student is in continuous attendance at the College.
  6. Any individual enrolled in 5 credit hours per semester or less, or any part-time student at Siena who enrolls full-time in the future must, at that time, submit a completed Siena College Health Record and meet all other requirements of a full-time student as set forth in this policy. Any individual enrolled in 5 credit hours per semester or less at Siena who enrolls part-time in the future must, at that time, meet all the requirements of a part-time student as set forth in this policy.

**D. Enforcement of the policy:**

1. Students who fail to comply with this policy, including but not limited to any failure to supply complete health and immunization records to the College prior to June 21st for the fall semester and January 2nd for the spring semester, may be subject to fines, prohibited from attending class/remaining on campus, cancellation of registration, and/or "health hold" for future registrations (registration placed on hold for future registrations). They may be reinstated upon full compliance and taken off registration "hold."
2. Students with positive tuberculin tests, including those who have had BCG vaccination, are required to report to the Albany County Health Department Chest Clinic or the Health Department in their county of residence. Failure to comply with health department directives will result in the penalties listed in the preceding paragraph.

**E. Reporting:**

1. Siena College complies with the requirement to submit yearly reports of immunization statistics including reports of diagnosis of communicable disease, as they occur, as required by NYS Department of Health regulations.
2. Student immunization records contain medical information and will be maintained in a confidential manner. Access to these records will be limited to personnel whose job duties require information from these records. No records can be released without the student's written consent or for a student under the age of eighteen, the consent of a parent or guardian. All medical records will be stored for seven years.

**Compliance Statements**

Siena College is an equal employment opportunity employer and does not discriminate against employees or job applicants on the basis of race, religion, color, sex, age, national and ethnic origin, disability, marital status, veteran status, sexual orientation or any other status or condition protected by applicable federal or state statutes, except where a bona fide occupational qualification applies.

Siena College admits students of any race, religion, color, sex, age, national and ethnic origin, disability status, marital status, veteran status, and sexual orientation to all the rights, privileges, programs, and activities generally accorded or made available to students at the school. It does not discriminate on the basis of race, religion, color, sex, age, national and ethnic origin, disability, marital status, veteran status, sexual orientation, or any other status or condition protected by applicable federal or state statutes in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other school administered programs.

In compliance with Title IX Regulations implementing the Education Amendments of 1972 prohibiting sex discrimination in education, and with Section 504 of the Rehabilitation Act of 1973, prohibiting discrimination on the basis of handicap, the Assistant Vice President for Human Resources has been appointed as Title IX and Section 504 Coordinator for Siena College.

**Changes in College Regulations**

The Board of Trustees of the College reserves the right to advance requirements for admission, to change the courses, the requirements for graduation, degrees, tuition, fees, and regulations affecting the student body. Such regulations will apply to all enrolled and new students, and will be effective on the day promulgated. It is the responsibility of the students to keep themselves informed of the content of all notices concerning such changes.

# Admission to the College

## General Requirements

Every freshman applicant to Siena College should submit a completed application to the Office of Admissions by March 1 of his or her senior year in high school. An official secondary school transcript, including work completed at all secondary schools attended by the applicant and a recommendation from the guidance counselor or college counselor, must be directed to the Office of Admissions. Every applicant *must* assume the responsibility for having the results of all SAT I, SAT II, or ACT examinations sent to the College.

SAT II tests are not required, but the Admissions Committee reserves the right to recommend them for certain students.

## Interviews

While individual interviews are not required, it is *strongly recommended* that all candidates for admission to Siena visit the campus. Meeting with faculty and students and attending classes are frequently helpful in evaluating the quality of the Siena experience. Arrangements can be made by calling the Office of Admissions.

## High School Course Requirements

Siena College recommends that all candidates pursue a college preparatory program and that they elect challenging courses in their senior year. All offers of admission are made on the condition that the student earns a high school diploma or the equivalent.

Candidates seeking admission to Siena College should be well versed in mathematics and the natural sciences. For students entering the School of Science, four years of high school mathematics and four years of natural/physical sciences (including Biology, Chemistry and Physics) are necessary. Candidates seeking admission to our School of Liberal Arts or School of Business should have completed at least three years of college preparatory mathematics, reaching at least Trig/Algebra II. To be competitive for admission, we recommend candidates take a year of mathematics beyond Trig/Algebra II.

A working knowledge of a foreign language is useful for all students planning to enter the College.

## When and How to Apply

1. A candidate for admission may apply online at [www.siena.edu](http://www.siena.edu) or obtain an application form by writing or calling the Office of Admissions, 515 Loudon Road, Siena College, Loudonville, New York 12211-1462, (518) 783-2423 or 1-888-AT SIENA. The College encourages students to submit their applications during the first half of their senior year. The deadline date is March 1 of the student's senior year. For special programs and

transfer deadlines refer to the appropriate catalog section or the admissions page at [www.siena.edu](http://www.siena.edu).

2. Each completed application should be accompanied by a \$40 application fee and sent to the Office of Admissions. The secondary school record, recommendation form and mid-term grade report form should be given to the high school guidance counselor or college advisor to complete the necessary information. It is the student's responsibility to be sure that all credentials necessary have been submitted.
3. The candidate must take the SAT I or ACT and have the results of all tests forwarded to the Office of Admissions, Siena College, 515 Loudon Road, Loudonville, New York 12211-1462. A prospective student can arrange to take one of these tests by consulting with his or her high school guidance counselor or college advisor.
4. Applicants whose native language is not English are expected to submit a Test of English as a Foreign Language (TOEFL) score of no less than 550 or a computerized TOEFL score no less than 213.
5. Notification of the Admission Committee's decision will be sent to each candidate on or about March 15. Upon notification of acceptance, a non-refundable deposit of \$200 will be required to reserve a place in the incoming class by May 1.

Early in the summer, after receipt of the final secondary transcript and certification of graduation, all students may expect to receive information about the reporting date and instructions for the College orientation program.

### **Early Admission**

In general, Siena does not encourage students to enter college at the end of their junior year in high school; however, the College will consider applications from outstanding juniors. *An interview with a member of the Admissions staff is required of all Early Admission candidates.*

High school seniors interested in taking college-level courses may enroll as non-degree students in courses on a space-available basis provided they possess the necessary academic qualifications. Interested seniors should call the Center for Continuing and Professional Education to gain more information regarding this option.

### **Early Decision**

Siena College offers applicants who have decided that Siena is their first choice, an opportunity to receive an early decision. A candidate seeking this decision, must submit an application by December 1, checking the Early Decision line on the application. The candidate will be notified of the Committee's decision by January 1 and must send a non-refundable deposit of \$200 by the date specified in the admission acceptance letter. Upon acceptance, the candidate will be expected to withdraw all other applications.

Early Decision applicants who expect to file for financial aid are encouraged to use the Siena College Early Estimator form.

## **Early Action**

Siena's Early Action program does not restrict students from applying to other colleges. A student interested in Early Action must submit an application prior to December 1, checking the Early Action line on the application. Candidate will be notified by January 1.

## **Higher Education Opportunity Program (HEOP)**

Siena co-sponsors the Higher Education Opportunity Program of New York State. As a member institution, Siena is committed to the education of students who are academically and economically disadvantaged as defined by the guidelines of the State Education Department. Students who qualify for admission into the HEOP Program receive counseling and tutoring assistance, as well as financial support for their college expenses. Supportive services include a summer session prior to freshman year and continuous academic advising during the completion of the degree program. The application deadline for freshman HEOP admission is March 1.

## **International Applicants**

Siena encourages applications from international students. International students add an important dimension to our community. In addition to the materials required for general admission, international students must also submit the following documents: Translated copies of secondary and college transcripts, Certificate of Financial Responsibility, TOEFL with a score no lower than 550 or a computerized TOEFL score no less than 213.

## **Transfer Students**

Students applying for admission to Siena from two-year or other four-year institutions must submit an application for transfer admission by December 1 for the spring semester, April 1 for the summer semester, or by June 1 for the fall semester. Applications for transfer admission are reviewed as soon as they are complete. Applications received after June 1 will be reviewed on a space-available basis. In addition to the application form and the application fee, the following information must be received before an admission decision can be made:

1. An official, final secondary school transcript or an official copy of a G.E.D., if applicant graduated from high school within the last 10 years.
2. Official, final, and complete transcripts from all colleges or universities attended.
3. A Transfer Recommendation Form to be completed by the appropriate college official from the last institution attended on a full-time basis. This form is only required if a student has been enrolled on a full-time basis within the past three years.

Although SAT or ACT examinations are not required for transfers to Siena College, students are encouraged to submit the results of SAT or ACT tests they have taken while in high school.

Transfer credit will be given only for those courses in which at least a C-grade has been earned and that are similar in content, level, and scope to courses offered at Siena. Siena will accept a total of 90 credits from four-year institutions. A maximum of 66 credits may be transferred from accredited *two-year* institutions. These credits would include Advanced Placement, College Proficiency Examination, International Baccalaureate Diploma, and Experiential Learning credits. A fee will be charged for experiential credits accepted. A tentative evaluation of credit can be made by an Admissions staff member during the candidate's interview or upon acceptance. Final approval of transfer credits is made by the dean of the School the student is entering. Transfer students entering in September will be contacted by their academic School dean during the summer for an appointment to meet and schedule fall semester courses. The evaluation of transfer credit is based on the student's academic major. Any future change of major will result in a re-evaluation of this transfer credit.

Generally, students transferring to Siena are expected to have a minimum 2.5 cumulative average at the institution where they are currently enrolled. Admissions standards will vary depending upon the space availability in specific programs.

A transfer student must earn a minimum of 30 semester hours and complete at least half of the major field to earn a degree at Siena. All general core curriculum requirements must also be completed.

Students who transfer to Siena with 24 or more credits will be eligible to substitute two core courses for the Foundations Sequence. One of the substitutions must come from the humanities area courses. The humanities subjects include: human past (CAH), literature (CAL), philosophical questions (CAP), and religious dimensions (CAR).

### **Re-Entry Students**

Students who interrupt their studies for financial or personal reasons and do not attend college elsewhere, need only contact their school office to reactivate their records, register, and be assigned an advisor.

Students dismissed for poor scholarship must seek permission from the VPAA to apply for readmission through the Office of Admissions.

### **Non-matriculated Students**

An individual may take a limited number of courses on a credit-no-degree basis as a part-time student. If the student later matriculates, the appropriate credit earned will be applied toward graduation requirements.

No more than 15 credits may be taken on the credit-no-degree basis unless approval is secured from the Director, Center for Continuing and Professional Education.

## Auditing Students

A student may audit a course with the approval of the academic advisor. The deadline date for declaring audit status is indicated in the Academic Calendar. The auditing fee is the usual tuition for the course and laboratory charges. Certain courses, as determined by the Director, Center for Continuing and Professional Education, are offered on the audit basis at a reduced rate. A grade of AU is recorded if attendance standards are met. If attendance standards are not met, the grade of W is assigned. No academic credit is granted. An audited course may be taken for academic credit in the future, but all course requirements must be met at that time.

An audited course does not count toward the 12 credit hours which must be maintained per semester in order to remain eligible for most forms of financial aid.

## Foreign Students

Siena College is permitted by the United States Immigration and Naturalization Service (INS) to admit non-immigrant students (F-1 status). Upon confirmation of acceptance, the College issues an I-20 form permitting the prospective student to enter the country. Upon entry the student is issued an I-20ID, which must be carried at all times. The F-1 student must pursue a full course of studies (12 or more semester hours) to remain in status except during the summer term. The F-1 student's passport must be valid at least six months into the future at all times. Any change of address must be reported to the INS within 10 days. Changes of address should also be reported to the Registrar and to the Office of International Programs.

F-1 students may be employed on campus. Off campus employment is *never* permitted during the first year of a student's study in the United States. Thereafter, the student must seek permission from the INS. Questions concerning employment should be addressed to the Office of International Programs.

Foreign students should contact the Office of International Programs as soon as possible after arrival on campus for further information on programming, orientation, and immigration regulations.

## Advanced Placement

Students who have successfully passed one or more Advanced Placement Tests administered by the College Entrance Examination Board may request advanced placement and/or credit. Advanced placement means that the student may be scheduled for a course at a more advanced level. Credit means that the student receives credit toward the 120 hours required for graduation. A score of 4 or 5 will usually be accepted for placement or credit. No grades are assigned to the courses for which the student receives advanced placement credit. A student with a distinguished high school record and superior scores on standardized entrance examinations also may be considered for advanced placement without credit.

# Undergraduate Tuition and Fees

College policies and charges for tuition and fees are listed below:

Students enrolled for 12 or more hours are considered to be full-time students. Part-time students may enroll in Day Session courses on a space-available basis only.

<i>Tuition:</i>	Tuition for 12 to 16 credit hours (Undergraduate per semester).....	\$8,202.50
	Undergraduate tuition per credit hour for 1 to 11 credit hours or for each hour in excess of 16 credit hours.....	275.00
<i>Residence:</i>	Room (per semester)	
	Hennepin Hall (per semester) .....	2,200.00
	Hines Hall (per semester).....	2,200.00
	Plassmann (per semester).....	2,200.00
	Ryan (per semester).....	2,200.00
	Padua.....	2,475.00
	MacClosky Square or Cushing Village (per semester).....	2,575.00
	Board (per semester) .....	1,305.00
<i>Tuition Deposit:</i>		
	New Students—Full-time .....	200
	New Students—Part-time .....	50
	Room Reservation Deposit (returning students).....	300
	Dormitory Damage Housing Deposit (per year).....	50
<i>Course and Laboratory Fees:</i>		
	Accounting Lab (All AC courses).....	30
	Biology, Chemistry, Computer Science, Environmental Science, Mathematics, and Physics Labs (per lab hour) .....	40
	(ENVA—100) .....	50
	(SCDV—010) .....	80
	Calculus (MATH—110, 120) .....	60
	Calculus (MATH—210).....	80
	Computer Use Fee (determined by course).....	50
	Creative Arts (CREA—110, 115, 310, 315, 320, 420).....	30
	(CREA—325).....	45
	(CREA—104, 135, 140, 170, 171, 240, 297, 330, 350, 351, 352, 353, 354, 397, 400) .....	65
	(CREA—145, 245, 250).....	85
	Education (EDUC—495, 496) .....	25
	Foundations (FOUN—100, 105) (per semester) .....	25
	Modern Language Lab	
	Elementary & Intermediate courses.....	25
	Psychology (PSYC—300, 400) .....	50
	Social Work (SWRK—491).....	25
	Sociology (SOCI—202) .....	30
<i>Miscellaneous Fees:</i>		
	Accounting Certificate .....	10
	Application Fee .....	35
	College Registration Fee (Part-time students, per semester).....	25
	Late Payment Penalty (per semester) .....	25
	Late Registration Fee (per semester).....	50
	Orientation Fee	
	Full-time Freshman .....	110
	Full-time Transfer .....	30

Academic Support Services Fee	
Full-time Freshman .....	70
Full-time Transfer .....	35
Parking License (per year).....	10
Recreation Facility Fee (Full-time students, per semester) .....	97.50
Returned Check Fee.....	15
Student Activity Fee (Full-time students, per semester).....	87.50
Student Union Fee (Full-time students, per semester) .....	35
Technology Fee (Full-time students, per semester) .....	50
Transcript.....	5

## Procedure for Payment

All charges and fees for each semester must be paid in full at the time of registration. Checks should be made payable to the order of *Siena College*.

No provision is made for installment payment directly with the College. Individuals who wish to make such arrangements should do so through the Academic Management Services, One AMS Place, PO Box 100, Swansea, MA 02777, (800) 635-0120, or Key Education Resources (Key Bank), 745 Atlantic Ave., Boston, MA 02111-2735, 1-800-Key-Lend, or with any other commercial firm that handles such financing. MasterCard or VISA may be used if an adequate line of credit is available.

A student may not receive a diploma or transcript until all accounts have been paid in full.

## Deposits

A TUITION DEPOSIT of \$200 is required of all new full-time students and \$50 of all new part-time students upon acceptance. This deposit must be made to effect completion of acceptance at the College and is non-refundable.

Returning resident students must pay a \$300.00 deposit at the time of room reservation in the spring. This deposit is non-refundable.

## Rooms and Meals

With the exception of townhouse complex residents, students living on campus are required to take their meals in Serra Dining Hall. Others may purchase meals on a cash basis. The cost for room and full meal plan is \$7,010-\$7,760 for the 2002-2003 academic year. There are a variety of meal plans available. Changes to a meal plan may be made only within the first two weeks of each semester and may be made with the Director of the Food Service in Serra Hall or the Director of Residence Life in the Sarazen Student Union.

## Books and Supplies

All required books and supplies and many other items commonly used by students are available at the Campus Bookstore located in the Sarazen Student Union. It is estimated that books and supplies will cost approximately \$745 per year.

## General Estimate of Cost

The cost for a commuting student can be estimated at \$20,875 for 2002-2003. Resident student costs can be estimated at \$25,973.

## Withdrawals and Refunds

A student who finds it necessary to withdraw from all courses before the conclusion of the fall or spring semester or summer sessions must first obtain a withdrawal form available in the Office of the Registrar. After Day Session students have obtained the withdrawal form, they must consult with the appropriate school Dean. The withdrawal form must be signed by the Dean, and returned to the Office of the Registrar. After part-time students have obtained the withdrawal form, they must consult with the Director of Continuing and Professional Education. A resident student must also advise his or her residence hall director. The date of withdrawal will be the later of the student's documented last date of attendance at an academically-related activity or the date indicated by the student as their intended withdrawal date when the student submits a written statement of withdrawal. If a student leaves the College at any time during the semester without following this procedure, he or she will be marked as having failed in all courses for the semester. No refund will be given after the fifth week of the semester for fall and spring. No refund will be given for Summer Sessions after the fourth class has met.

Refunds will be given in the following areas:

*Tuition:* Tuition will be refunded on a proportionate basis according to the following schedule:

Fall and Spring Semesters			
Two weeks or less	80%	Five weeks	20%
Three weeks	60%	Over five weeks	No refund
Four weeks	40%		

Federal regulations require that any refunds be returned proportionately based on the percentage each contributed toward the cost of meeting educational expenses. The formula to be used is described in this catalog under State and Federal Aid Programs.

### Room and Board Fees:

1. Returning students may submit a written appeal to be released from the housing contract within two weeks following the last day of lottery. If permitted to move off-campus, they would forfeit the housing deposit.
2. After the lottery and the established appeal deadline of two weeks but prior to the first day of classes, students withdrawing from housing but remaining enrolled at the College will be assessed one semester of housing fees (room and board, if applicable).
3. After the first day of classes, if a student withdraws from housing but remains enrolled at the College, the student will be assessed the full year of housing fees (room and board, if applicable).
4. Students who withdraw from the College will receive a pro-rated refund dependent upon the ability to fill all beds.
5. Students with billable damage (room/suite/townhouse and common area damage or vandalism) in excess of \$100.00 may have this Housing/Food Service Contract immediately cancelled.
6. Students dismissed from housing for disciplinary reasons are not eligible for any refund of housing fees (room and board, if applicable).

*Other Fees:* Other fees will not be refunded in whole or in part.

# Academic Information and Regulations

Siena College is approved by the New York State Education Department to offer the Bachelor of Arts, the Bachelor of Science, the Bachelor of Business Administration, the Master of Business Administration and programs leading to professional licensure, certification, teacher certification (grades 7-12) and business and distributive education.

Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain student aid awards (NYSEED Commissioner's Regulations (53.3(d)(1)).

CIP CODE	PROGRAM	
520301	Accounting	Bachelor of Business Administration Program for Professional Licensure Provisional Teacher Certification
520302		Certificate
500101	Creative Arts	Bachelor of Arts
050102	American Studies Social Studies-History	Bachelor of Arts Provisional Teacher Certification (grades 7-12)
260101	Biology	Bachelor of Science Provisional Teacher Certification (grades 7-12)
260202	Biochemistry	Bachelor of Science
269999	Biology/Medical Albany Medical Joint Program	Bachelor of Arts
400501	Chemistry	Bachelor of Science (Also certified by American Chemical Society) Provisional Teacher Certification (grades 7-12)
161201	Classics	Bachelor of Arts
110101	Computer Science	Bachelor of Science
110301	Computer Science	Certificate
450601	Economics	Bachelor of Science
459999		Provisional Teacher Certification
450601		Bachelor of Arts
230101	English	Bachelor of Arts Provisional Teacher Certification (grades 7-12)

*Academic Information and Regulations*

**Academic Information and Regulations**

260603	Environmental Studies	Bachelor of Arts
419999		Certificate
520801	Finance	Bachelor of Science
529999		Provisional Teacher Certification
160901	French	Bachelor of Arts
131325		Provisional Teacher Certification (grades 7-12)
450801	History	Bachelor of Arts
110301	Information Systems	Certificate
240199	International Studies, Foreign Language, Business	Certificate Program
080708	Marketing and Management	Bachelor of Science Provisional Teacher Certification
270101	Mathematics	Bachelor of Arts Bachelor of Science Provisional Teacher Certification (grades 7-12)
270301	Mathematics, Applied	Bachelor of Science
300501	Peace Studies	Certificate Program
380101	Philosophy	Bachelor of Arts
400801	Physics	Bachelor of Science Provisional Teacher Certification (grades 7-12)
451001	Political Science	Bachelor of Arts
420101	Psychology	Bachelor of Arts
380201	Religious Studies	Bachelor of Arts
130101	Secondary Education	Provisional Teacher Certification (grades 7-12)
	Business/Distributive Education, Biology, Chemistry, Physics, French, Spanish, English, Mathematics, Social Studies	
	Social Studies	Provisional Teacher Certification (grades 7-12)
	American Studies, History, Political Science, Sociology	
440701	Social Work	Bachelor of Arts
451101	Sociology	Bachelor of Arts
160905	Spanish	Bachelor of Arts Provisional Teacher Certification (grades 7-12)
500101	Theatre	Certificate Program

# Degree Requirements

To qualify for the bachelor's degree, a student must satisfactorily complete 120 hours of coursework as specified by the department and school, attain a minimum cumulative index of 2.00, and earn at least a C- grade in every major field course used to satisfy the credit hour requirement of the major. At least half of the major field and a minimum of 30 credit hours must be earned at Siena.

All students should choose courses so that they fulfill the minimum number of credits in the liberal arts required for their degree: 90 credits of liberal arts and science (courses with the attribute ARTS) for the B.A. degree, and 60 credits for the B.B.A. and B.S. degrees. Business majors must complete a total of 60 credits of business courses (courses with an attribute of BUS).

Full-time students are required to spend the senior year as full-time matriculated students. Only in exceptional cases will a waiver of this policy be granted. Application for a waiver should be made in the school office; final approval must be granted by the Vice President for Academic Affairs.

*It is the responsibility of the individual student to fulfill requirements for the degree. Through his or her own initiative, progress towards graduation should be reviewed with the Academic Advisor. The Registrar's Office will determine if all requirements are met for graduation purposes.*

## Core, Concentration, and Electives

The 120 credits required for graduation are to be earned through core, concentration, and elective groupings. The student must follow the specific requirements of the major field, which are described in this catalog under each department.

## Core Curriculum

The Core Curriculum, consisting of 42 credits, 14 courses, provides every Siena student with a common, coherent educational experience. Through the core, students pursue courses in the traditional liberal arts and sciences. They enter into dialogue with traditional and contemporary figures who have confronted fundamental questions about the universe and the place of humans in it. Core courses engage students in critical thinking, stress effective communication, and introduce students to the perspectives and modes of knowing specific to the arts and sciences.

Every course that meets Core Curriculum requirements has a coded notation, (Attribute), at the end of each course description listed in the departmental sections of the catalog.

## Degree Requirements

The Core requirements are:

*Foundations Sequence* (ATTR: CFS) (2 courses, 6 credits to be taken by all first year students) FOUN—100 and FOUN—105. The successful completion of FOUN—100 is required prior to enrollment in FOUN—105.

*Disciplinary Requirements* (4 courses, 12 credits): English (ATTR: CDE) (ENGL—011 or ENGL—090), History (ATTR: CDH) (HIST—101 or HIST—190), Philosophy (ATTR: CDP) (PHIL—101), and Religious Studies (ATTR: CDR) (one of RELG—101, RELG—121, RELG—141, RELG—181).

*Area Requirements:* Area requirements must be taken in departments outside of the student's major field of study. No more than two Area courses may be taken from any one department. Area courses introduce students to the ways in which disciplines construct knowledge.

*Aesthetic Dimensions:* (ATTR: CAA) (1 course, 3 credits) CLSS—240, CLSS—245, CREA—101, CREA—102, CREA—103, CREA—104, CREA—110, CREA—115, CREA—135, CREA—140, CREA—145, CREA—150, CREA—151, CREA—245, CREA—247, CREA—250.

*Social Science Perspectives:* (ATTR: CAS) (2 courses, 6 credits): ECON—101, ECON—102, POSC—100, POSC—140, POSC—150, PSYC—100, SOCI—101, SOCI—140, SWRK—100.

*Natural World* (ATTR: CAN) and *Quantitative Reasoning:* (ATTR: CAQ) (3 courses, 9 credits) At least one of these courses (3 credits) must be taken from the natural sciences, and at least one course (3 credits) must be taken in quantitative reasoning. The natural science requirement may be fulfilled by BIOL—010 (topics: Principles of Evolution, Animal Behavior), BIOL—020 (topics: Drugs and Human Body, Nutrition, Biology of Breast Cancer), BIOL—110, BIOL—111, BIOL—120, BIOL—121, BIOL—130, BIOL—140, CHEM—010 (topic: Chemistry in the News), CHEM—110, CHEM—120, ENVA—015, ENVA—020, ENVA—025, ENVA—050, ENVA—055, ENVA—100, PHYS—010 (topics: Astronomy, Historical Approach, Light, Color and Lasers, Atmosphere and Oceans), PHYS—010, PHYS—070, PHYS—110, PHYS—120, PHYS—130, PHYS—140. The quantitative reasoning requirements may be fulfilled by CSIS—110, CSIS—120, MATH—010, MATH—030, MATH—110, MATH—120, QBUS—100, QBUS—110. The third course is selected by students in consultation with their academic advisors.

In addition, students must successfully complete 6 hours of course work (3 hours in each of two Areas) from the following Areas:

*Literature:* (ATTR: CAL) CLSS—220, CLSS—225, ENGL—210, ENGL—215, ENGL—235, ENGL—250, ENGL—253, ENGL—259, ENGL—305, ENGL—310, ENGL—370, FREN—025, FREN—026, GERM—025.

*Human Past:* (ATTR: CAH) CLSS—200, CLSS—205, CLSS—210, CONV—100, CREA—160, CREA—161, CREA—170, CREA—171, CREA—225, CREA—240, HIST—201, HIST—330, HIST—340, HIST—343, HIST—345, HIST—350, HIST—411, HIST—415, HIST—425, HIST—465, RELG—320.

*Philosophical Questions:* (ATTR: CAP) PHIL—202, PHIL—210, PHIL—220, PHIL—230, PHIL—240, PHIL—270, PHIL—320, PHIL—330, PHIL—348, POSC—130.

*Religious Dimensions:* (ATTR: CAR) CLSS—260, RELG—210, RELG—215, RELG—240, RELG—250, RELG—260, RELG—270, RELG—280, RELG—301, RELG—305, RELG—310, RELG—315, RELG—324, RELG—330, RELG—335, RELG—340, RELG—355, RELG—360, RELG—365, RELG—370, RELG—375, RELG—380, RELG—385, RELG—400, RELG—401, RELG—420.

## Major

No later than the end of the sophomore year, each student must select a major field.

The following rules govern major:

1. The student, in consultation with his or her department advisor, selects courses in the major field. Except for certain programs in Teacher-Education, the requirements, depending upon the department, range from 30 to 39 hours in the major area. Students must complete at least half of the major field at Siena.
2. Auxiliary subjects related to the major may be required.
3. Credits earned under the disciplinary requirement may be used in fulfillment of the requirements in the major field.
4. No more than 39 credit hours in any one subject field may be applied toward the degree requirement of 120 hours.
5. A student must earn a minimum grade of C- in each required course in the major field as well as in all other elective major courses that are used to satisfy the 30 to 39 hours requirement of the major; and must have a minimum average of 2.0 in the major.

## Changing Schools

Depending on the academic interest expressed in their application, students are admitted to Siena College as members of the School of Liberal Arts, School of Business or School of Science. Students wishing to declare a major in a new school may not do so during their first year, although they may take any course in the College for which they have the required prerequisites. Students with sophomore or higher academic standing may transfer to a new school if:

1. They have a cumulative GPA of 2.0 or higher.

OR

2. If students have a cumulative GPA of less than 2.0 they must earn a C- or higher in any of the following courses in the new school:

School of Liberal Arts: 1 Core disciplinary course AND 1 Intro to Social Science course OR 2 Core disciplinary courses.

School of Business: Any TWO from: QBUS—100, QBUS—110, ECON—101, ECON—102.

School of Science: Introductory course for majors in ANY TWO School of Science departments.

Students with an interest in changing schools will see the Assistant to the Dean in their current school who will then forward their academic record to the Assistant to the Dean in the other school. When these students are officially accepted in their new school, they will be assigned a new faculty advisor.

### **Change of Major**

A student may change a major within the same school with the permission of the school dean and by completing a student permanent record change form available in the School office. To change to a major in a different school, see the “Changing Schools” section above. Students who change major fields, whether within the same school or into another school, must conform to the major field requirements current at the time the student is entering the program.

### **Minor**

Minors are optional for all students; no student is required to declare a minor. Students who want a minor designated on the transcript must declare the minor before the end of their junior year. It is the responsibility of the student to declare a minor within a timeframe which will allow enough time to complete the minor requirements before the student’s graduation. The form used to declare a minor is available in the school offices. Students with a declared minor who decide not to complete the minor must notify their school’s office to undeclare the minor.

The following rules govern minors:

1. 18 credits (or 6 courses) are required, as outlined by the departments offering the minor.
2. Students are required to maintain a 2.0 average in the courses counted toward the minor; no grade below a C- will be included.
3. No course used to fulfill a minor requirement may be taken pass/fail.
4. Students may not use the same course in their major department to fulfill both major and minor requirements.
5. One-half of the courses in the minor must be taken at Siena College.

Following is a list of the minors presently available to students:

American Studies	French	Philosophy
Biology	German	Physics
Business	Greek	Political Science
Chemistry	Health Studies	Psychology
Classics	Health Services	Religious Studies
Computer Science	Admin.	Sociology
Creative Arts	History	Spanish
Criminal Justice	Information Systems	Women's Studies
Economics	International Business	Writing and
English	Latin	Communications
Franciscan Service and Advocacy	Mathematics	
	Multicultural Studies	

Requirements for minors are provided in each department's or program's section of the catalog or in the "Multidisciplinary Courses and Minors" section of the catalog.

## Double Majors

A student may graduate with a major in two disciplines upon completion of the requirements for both. This choice helps focus the plan of study but reduces the options for course selection each semester. Students must officially register as a major with the primary department and file a form for recognizing the second major with the Registrar. Double majors must be completed by the time the four year degree requirements have been met. If all requirements for the second major are successfully completed, both majors will be recorded on the student's official transcript upon graduation. The primary major will be recognized as the field of concentration for Commencement purposes.

Occasionally two separate majors may have some overlap of course requirements. A course may be used to satisfy requirements in both majors. A student will not be considered to have completed a second major unless at least seven of the courses successfully completed in fulfillment of the second major are different courses from those taken to fulfill the primary major. If the primary major requires auxiliary courses (which must be taken but which are not actually considered part of the major), they may be counted toward the second major. The minimum grade point average required for completion of the primary major also applies to a second major. Any questions regarding a student's eligibility for a second major will be resolved by the School Dean, if both majors are in the same school, or the Vice President for Academic Affairs, if the majors are in different schools.

## Double Degrees

A second Bachelor's degree may be earned simultaneously or after the first degree by completing at least thirty additional credit hours as a matriculated student and fulfilling all of the requirements for the second degree. Non-Siena graduates must meet the requirements for admission to the College. Second degree candidates must also complete Siena's core curriculum.

All students wishing to pursue either simultaneous or second degrees must consult with the Assistant Vice President for Academic Affairs.

## Transfer Credit for Matriculated Siena Students

Prior to registering for a course at another institution, students must provide their school dean with a description of the desired course, and complete a transfer credit permission form. Courses consistent with the mission of the college will be approved.

Any course deemed to be an upper level (junior or senior level) course *must* be taken at a four-year institution.

## Graduation

**Prospective graduates *must* file a degree candidate application with the Registrar according to the dates for filing as published in the class schedule and student newspaper in order to be considered for graduation.**

Any student who *potentially* meets all graduation requirements in his/her last semester as of the day after the last day to withdraw from a course with a “WP/WF” will be allowed to participate in commencement activities. All candidates who have completed degree requirements at the end of the spring semester should be present at Commencement. Others who may have completed degree requirements in the previous fall or summer semester are invited to participate. Any student who is within *one course* of meeting graduation requirements as of the day after the last day to withdraw with “WP/WF” may submit a *written request* to the school office who will submit a recommendation to the Registrar. The Registrar makes the final decision regarding participation in Commencement activities. Participants in Commencement exercises wear cap and gown. Diplomas will be mailed to graduates upon the completion of all degree requirements.

**For seniors who expect to graduate in May, official transcripts recording transfer credits earned at any other college must be received by the Registrar no later than March 1 of their senior year. Students are responsible for having transcripts from other colleges sent to Siena and should check with the Office of the Registrar before March 1 to be sure that the transcript has been received.**

*Each degree candidate must settle all accounts with the Office of Business Affairs before a diploma is granted.*

## Academic Advising

Every student at Siena is assigned an academic advisor. The advisor is a faculty member who teaches in the school (in the case of students who have not declared majors) or in the discipline or program in which the student is majoring. The role of the academic advisor is to answer questions about the curriculum or the College in general, to assist students in the process of choosing

a major or of choosing appropriate courses when a major is declared, to guide students through the course registration process, and to help students when they are having academic problems. **While students are ultimately responsible for making sure that they meet all graduation requirements, they are encouraged to keep in regular contact with their academic advisors, and are required to consult with them before registration.** Additional information about advising is available on the College's web site (<http://www.siena.edu/advising>).

## Registration

All students are expected to register during the registration period. The details and dates of the registration procedures may be found in the schedule of classes published before each semester by the Office of the Registrar. Each student's registration is not complete until the student has satisfied all financial obligations with the Office of Business Affairs and has met all Health Service requirements. *Only in exceptional cases and with the approval of the school dean will the Vice President for Academic Affairs allow a student to register for more than 19 credit hours in a semester.*

## Regular and Summer Sessions

The Fall Semester begins in September and ends in December, and the Spring Semester begins in January and ends in May. A Summer Session is also conducted each year. A program of course offerings is published before each academic session. In any of these sessions, a course for which there is an insufficient enrollment may be cancelled.

## Day and Evening Sessions

A student may matriculate for a degree in either the Day or Evening Session. Part-time, non-matriculated students may enroll in Day Session courses on a space-available basis with the approval of the Director of Continuing and Professional Education after full-time registration has been completed.

The Evening Session is under the direction of the Center for Continuing and Professional Education. While the majority of the Evening Session classes are scheduled in the late afternoons and evenings on Monday through Thursday, weekend courses are available. The courses that are offered in the Evening Session are identical in content, level, scope, and entrance requirements to those offered in the Day Session. The Evening Session offers courses that lead to the Baccalaureate degree with majors in Accounting, English, Finance, History, Marketing and Management, and Sociology.

## Unit of Instruction

A credit represents 55 minutes of lecture or a minimum of two hours of laboratory work (120 minutes) per week for one semester, or the equivalent, unless otherwise noted. Laboratory work, where required, is considered an essential part of the course and must be pursued in conjunction with the lectures to obtain credit.

## Absences from Class

A student is expected to attend every class and laboratory for which he or she has registered. *Each instructor will make known to the student his or her policy with respect to absences in the course. It is the student's responsibility to be aware of this policy.* A student may present to the instructor a written statement from an authorized school official if an excused absence is requested for a college-related activity, e.g., an athletic meet, class trip, etc. *The instructor makes the final decision to excuse or not to excuse an absence. An instructor is entitled to give a failing grade (U) for excessive absences.*

If there has been an *extraordinary* reason for excessive absences, such as prolonged illness, a student may petition the Vice President for Academic Affairs *in writing* to consider reinstatement in the class or permission to withdraw with the grade W.

It is the personal responsibility of the student to make up all work assigned during an absence from any class or laboratory.

## Change of Address

Students should report at once to the Office of the Registrar all changes of campus or home residence address.

## Pass/Fail Option

The pass/fail option is designed to encourage students to take courses outside of their major fields without affecting the grade point average.

Any full-time matriculated student may elect to take one pass/fail course each semester (excluding Summer Session) to a maximum of eight courses towards graduation. *The student may not, however, apply any courses in the major field or any courses in a minor, or any courses used to fulfill college core and business core requirements under this option. Certain Certificate Programs do not allow students to take required courses under this option. Students should check with the Director of the Certificate Program.*

Courses offered only on a pass/fail basis do not count as part of the eight course pass/fail limit. See School offices for lists of courses mandated as pass/fail.

Matriculated part-time students also may take advantage of this option. The student must be registered for at least six credits in the semester in which the Pass/Fail Option is chosen (excluding Summer Session) and may not use the option in two consecutive semesters.

In order to receive a passing grade P, the student must earn at least a D-grade in the course. Otherwise, the failing grade Z will be assigned, and no credit will be received. A Pass/Fail grade does not affect a student's quality point index. The original letter grade will not be revealed to the student, listed on a transcript, or transmitted to another college.

The student must complete the appropriate form in the Office of the Registrar by the published deadline and may not make a change after the deadline.

### **Adding a Course**

Students may add courses until the deadline published in the Academic Calendar.

### **Dropping a Course**

Dropping a course requires the permission of the school dean for full-time students and the Director, Center for Continuing and Professional Education for part-time students. If a student drops a course during the first week of classes, the course will not be reflected on the transcript. After this, permission for dropping may be granted up until the date set in the Academic Calendar with the W grade assigned by the Registrar. After this date, up until the date set in the Academic Calendar (approximately two weeks before the last day of classes), the Dean may permit dropping a course with either the grade WP (withdrawn passing) or WF (withdrawn failing, not computed in the GPA) based upon the student's academic status in the course at the time it is dropped. Dropping a course is not allowed after the last date for WP/WF specified in the Academic Calendar.

To drop a course, the student must complete the appropriate form which can be found in the school office, by the published deadline.

The student is responsible for understanding the implications that may occur from dropping one or more courses (examples: financial aid, housing, health and/or auto insurance eligibility, NCAA regulations, and others).

## Examinations

Final written examinations are required in each course. Every instructor schedules other tests and examinations that, in his or her judgement, are required either by the objectives of the course or by the specific needs of the students. Credit will not be granted in any course until all assignments and examinations in that course have been completed. Instructors will hold final examinations on file for a period of one year.

When a student has missed a final examination for some valid reason, a make-up examination may be taken. The make-up examination must be taken within one month from the closing of the term at the convenience of the instructor. Once taken, no final examination will be readministered.

## College Proficiency Examinations, Noncollegiate Sponsored Instruction, and Experiential Learning

Siena participates in the Regents College Examination Program, the College-Level Examination Program (CLEP), the American College Testing Proficiency Examination Program (ACT/PEP), the National Program on Noncollegiate Sponsored Instruction (NPONSI), and the American Council on Education (ACE). Siena also offers the opportunity to earn credit through experiential learning. Students who have attained satisfactory levels of competency in college subjects outside of regular courses may earn college credit through these means, but only in subject areas offered at the College. All credit earned in this manner must be approved by the student's School Dean.

The total number of credits which any one student may earn by proficiency examination, noncollegiate sponsored instruction and experiential learning is 36; a grade equivalent to Siena's C- must be attained.

Incoming freshmen are offered the opportunity to take proficiency examinations in Calculus and Computer Science which are administered by the College. In order to receive credit, students are required to score a grade of C- or better.

## Academic Classification

Matriculated students are classified according to the number of credits they have completed toward their degrees, as follows:

Freshman 0 - 23 credits, Sophomore 24 - 53 credits, Junior 54 - 83 credits, Senior 84 or more credits.

Unfinished coursework from prior semesters, (I grades), and coursework in which a student is currently enrolled do *not* count in the calculation of academic classification.

Students not enrolled in a degree or certificate program are classified as "Non-matriculated" or "Auditor."

Students enrolled in the Accounting; Computer Science; Education; Environmental Studies; International Studies, Foreign Languages and Business; Peace Studies; and Theater Certificate Programs are classified according to their program.

## System of Grading

Credit hours are earned for any grade of D- and higher. Quality point values are assigned for each credit hour awarded as follows:

A=4.0 quality points per credit hour; A-=3.7; B+=3.3; B=3.0; B-=2.7; C+=2.3; C=2.0; C-=1.7; D+=1.3; D=1.0; D-=0.7; F=0.0; U=0.0 (Failure due to excessive absence); I=0.0 (Incomplete).

No other grades carry quality point values.

Other grades are:

Au Auditing

W Withdrawal from the course prior to the published deadline.

WP Withdrawal from the course after the published deadline while passing.

WF Withdrawal from the course after the published deadline while failing.

And, for courses on the Pass/Fail Option:

P Pass (Letter grades A through D-)

Z Failure (Letter F and U)

The Incomplete grade I is assigned to students who have missed a final examination because of illness or some other serious reason. The students must make up the examination within one month after the close of the term at the convenience of the instructor; otherwise the I grade is converted to an F. For GPA purposes, I grades are calculated the same as F grades. All I grades must be reconciled prior to receipt of a degree. *Grades appearing on a student's academic record at the time of graduation will not be changed to any other grade subsequent to the graduation date.*

## Grade Reports

Mid-semester grades are required for first-year students and for other students whose academic progress is being monitored. Students have their progress monitored for a variety of reasons including academic difficulty, competition for academic prizes, awards and fellowships, etc. Grade progress reports may be filled out for other students at the faculty member's discretion. If these grades indicate that the student's progress is generally unsatisfactory, the student is informed directly by letter. Mid-semester grades are for internal purposes only and are not included on a student's official transcript.

A final grade report is sent to every student shortly after the close of each semester.

## Appeal of Assigned Grades

A student who believes that an error has been made in assigning a grade should discuss the basis upon which the grade was determined with the instructor within 60 days of receipt of the grade report. If after this review the student is not satisfied with the assigned grade, an appeal may be made to the Department Head. Such appeal should be made in writing, stating the basis upon which the grade is questioned and requesting a departmental review. If following the review the student is not satisfied with the departmental decision, appeal may be made to the School Dean. If the situation is not resolved at the school level, a final determination for disposition of the matter will rest with the Vice President for Academic Affairs.

## Scholarship Indices (G.P.A.)

The scholarship index for every student is determined at the conclusion of each semester. The index is obtained by dividing the total number of quality points earned by the total number of credits attempted. A cumulative quality point average of 2.0 is required for graduation.

The following example illustrates how the scholarship index is determined for one semester:

Course No.	Course Title	Grade	Credit Hours Attempted	Quality Points
FOUN—100	Foundations Sequence I	A	3	12
HIST—101	Shaping of the Contemporary World	A	3	12
PSYC—100	General Psychology	B-	3	8.1
MATH—010	Finite Mathematics	B+	3	9.9
FREN—101	Fundamentals of French I	F	3	0
			15	42
Quality Points Earned			42	
Scholarship Index =			=	= 2.8
Credit Hours Attempted			15	

The cumulative quality point index is determined by dividing the total number of quality points earned by the total number of credit hours attempted for all Siena courses in which grades with quality points were possible. Courses taken under the Hudson-Mohawk Association are included in the calculation of the grade point average (G.P.A.).



## Repeated Courses

A student may repeat a course in which a grade of C- or less has been awarded. Both grades will appear on the student's transcript, but the higher grade will be used in computing the cumulative grade point average (G.P.A.). Credit for the course will be given only once. This policy will apply to any course repeated after the spring 1987 semester. If repeating a course is not required in order to make progress towards a graduation requirement, the course does not count towards full-time status. A change to part-time status (less than 12 credit hours per semester) could affect a student's financial aid eligibility and other eligibility. A student with a question about status when repeating a course should discuss this matter with the Registrar or Financial Aid Office.

## Transcript of Record

All requests for transcripts must be made in person or in writing and must be accompanied by the fee of \$5 per request. An official transcript, bearing the seal and an authorized signature of Siena, will be issued upon the request of the student. A transcript or any information concerning a student may not be released if there is an outstanding indebtedness to the College. Transcripts are prepared in the order in which they are received, so it is recommended that all requests be made well in advance of the date the transcript is needed.

## Honor Lists

To be eligible for semester honor lists, a student must have completed no fewer than 12 credit hours as a full-time matriculated student or no fewer than 8 credit hours as a part-time matriculated student.

*Deans' List:* Requires a term index of 3.3 to 3.549.

*President's List:* Requires a term index of 3.55 to 4.00.

## Honor Societies

*Alpha Kappa Alpha* is the Honor Society of Siena College. Membership in this society is the highest award granted to a student at graduation. To be eligible, a student must have completed 54 credit hours at Siena College, have achieved a minimum index of 3.3 for each year in attendance (including study abroad), have Senior status and must show a record of involvement in voluntary service activities during the course of his/her Siena studies. Transfer students are required to have met at the previously attended institution(s) academic standards comparable to those required of four-year matriculated students.

*Alpha Mu Gamma*, the National Foreign Language Honor Society, recognizes achievement in the field of foreign languages. To be eligible, students must have completed four courses above the elementary level, have a 3.0 GPA overall and a 3.5 average in language courses.

*Alpha Sigma Lambda*, Theta Rho chapter, is the National Honor Society for students in continuing education. Requirements for selection are: a) Members must be matriculated in Siena's Evening Session and must have completed a minimum of twenty-four Siena College credits. b) Half of these credits must be in courses outside the student's major field. At least twelve of a student's total earned credits (including transfer credits) must be in Liberal Arts/Sciences. c) Members represent the top ten Siena students who satisfy the requirements of a and b.

*Delta Epsilon Sigma*, Beta Psi chapter, is a National Scholastic Honor Society. To be eligible, students must have attained a cumulative index of 3.7 by the completion of the junior year.

*Omicron Delta Epsilon*, Beta Mu chapter, is the International Honor Society in economics. Membership in this society is in recognition of academic excellence in economics.

*Phi Alpha Honor Society*, Delta Upsilon chapter, is a national honor society for students, faculty, and practitioners promoting humanitarian goals and recognizing the attainment of academic excellence and scholarship related to social work. Members must be admitted into the social work program, have completed the first semester of their senior year, have completed at least 15 credits in social work, and have maintained a cumulative G.P.A. of 3.0.

*Phi Alpha Theta*, Omicron Xi chapter, is the International Honor Society in History. The History Department admits students who have demonstrated excellence in the study of history.

*Phi Sigma Tau*, New York Kappa chapter, is the National Honor Society in Philosophy. Students are nominated by the Philosophy Department for membership.

*Pi Gamma Mu*, Alpha Gamma chapter, is the International Social Science Honor Society. Membership in this society is in recognition of academic excellence in the social sciences.

*Pi Mu Epsilon* is a national mathematics honorary society. Membership is based on scholarly achievement.

*Psi Chi*, the national honor society in psychology, admits students who have attained high academic achievement in this field.

*Sigma Beta Delta*, a national honorary society for School of Business majors, which recognizes scholarly achievement.

*Sigma Pi Sigma*, the Siena Chapter of the National Physics Honor Society, recognizes students with high scholarship and achievement in Physics.

*Sigma Tau Delta*, the English honor society, is open to students with at least 15 credits in English and a 3.3 minimum G.P.A. Selection is subject to departmental approval.

*Sigma Xi*, the Scientific Research Society, is an honor society for scientists. Sigma Xi's goals are to advance scientific research, to encourage companionship among all scientists, and to assist the wider understanding of science. Outstanding research students in the School of Science at Siena may be nominated to associate membership.

*21st Century Leaders Society* is the honor society for School of Business majors. Members are selected based on a combination of academic achievement and demonstrated outstanding leadership characteristics. The society is endowed through a donation from Vincent Puritano '59.

*Who's Who Among Students in American Universities and Colleges* is an annually published roster of college students who have distinguished themselves on campuses across the nation. To be eligible for membership, Siena students must place in the top quartile of their graduating class and demonstrate outstanding contributions to the Siena community.

## Graduation Honors

Three distinctions are awarded to graduates, based on their attainments in scholarship during the entire college course:

1. *Summa Cum Laude*, or the highest honors, to those having a scholarship index of 3.90 or higher.
2. *Magna Cum Laude*, or high honors, to those having a scholarship index between 3.55 and 3.89.
3. *Cum Laude*, or honors, scholarship index between 3.30 and 3.549.

In order for a student to qualify for graduation honors the person must have completed 54 credit hours at Siena College. Students pursuing second degrees have all Siena credits included in the computation and are subject to the 54 credit minimum.

## Good Academic Standing

A student is in good academic standing if he or she is matriculated at Siena College and is considered to be making satisfactory progress toward a degree.

For enrollment verification purposes a student registered for a minimum of 12 credits at the close of the last day to add a semester course as defined by the academic calendar is classified as a full-time student for the duration of that semester. Students registered for fewer than 12 credits as of that date are classified as part-time students for the duration of the semester.

## Academic Probation and Academic Dismissal

To obtain a degree, a student must have at least a “C” average (2.00 cumulative grade point average) for all Siena coursework. If a student’s cumulative GPA falls below a 2.00, the student will be subject to Academic Probation or Academic Dismissal based on the following chart after the Fall and Spring semesters.

Category	0-22 credits*	23-37 credits*	38-52 credits*	53-67 credits*	68-82 credits*	83 or more credits*
Academic Dismissal**	Below 1.00	Below 1.50	Below 1.60	Below 1.70	Below 1.80	Below 1.90
Academic Probation***	From 1.00 to below 2.00	From 1.50 to below 2.00	From 1.60 to below 2.00	From 1.70 to below 2.00	From 1.80 to below 2.00	From 1.90 to below 2.00

\* Includes transfer credits and earned credits

\*\* Any student dismissed from the College for poor scholarship may not apply for readmission unless he or she has attended a recognized college for one year and has attained a record of satisfactory scholarship. Documented continuous full-time employment or service in the military will be considered as possible substitutes for academic accomplishments. However, in all cases the final decision for readmission shall be at the discretion of the Vice President for Academic Affairs.

\*\*\* Any student who is currently on Academic Probation is urged to participate in support programming. Failure to comply may result in the cancellation of the student’s current-semester or next-semester registration. The cancellation of a student’s current registration will result in the immediate withdrawal or dismissal of the student from the College.



### **Withdrawing from the College**

See the “Undergraduate Tuition and Fees” section of the catalog for the procedure to follow if it is necessary to withdraw from the College. The re-entry procedure is described in the “Admission to the College” section.

### **Separation from the College**

Since a student’s continued presence as a recognized member of the Siena community is subject to the authority of the College, the College reserves the right, at the discretion of the administration, to enforce all regulations concerning a student’s academic performance and, if necessary, to cancel registration, refuse academic credit or deny the Bachelor’s degree. The conditions that may warrant dismissal for academic deficiencies are explained above.

### **Graduation Rates**

Students in the Class of 1999 who entered Siena as full-time freshmen: approximately 67 percent graduated from Siena in four years or less and 75 percent graduated within 5 years. This information includes students who withdraw and re-enter.

### **Snow Day Procedure**

In the event of extreme weather conditions, please listen to your radio or check the Siena website (<http://www.Siena.edu/> or <http://www.siena.edu/community/>). If classes are to be cancelled, every effort will be made to contact radio stations by 6:30 a.m. Announcements will be made on the following stations: WRGB, WVCR, WGY-AM, WGY-FM, WGNA, WPTR, WFLY, WQBK, WROWWTRY, WKLI, WWSC, WKAJ, WQQY.

Students and faculty are expected to use good judgment and discretion, since road conditions and personal circumstances may vary. Faculty should not penalize students who present a valid excuse for missing classes on a snow day.



# Courses of Instruction

Course descriptions include the course number, course title, and important text. Many courses will also include *attribute codes* (ATTR:). An attribute is a code used to indicate a special requirement that the course will meet (i.e., requirements for a major, a minor, for core, etc.) and will be important for monitoring a student's progress toward his or her degree. A list of the attribute codes and descriptions follows:

## Attributes

<b>CODE</b>	<b>DESCRIPTION</b>	<b>CODE</b>	<b>DESCRIPTION</b>
AMSA	American Studies Area A	INT	Internship
AMSB	American Studies Area B	ISP	Intl Studies Certificate Prog
AMSC	American Studies Area C	JMN	Criminal Justice Minor
AMST	American Studies	KEM	Chemistry-Integrated Science
ARTS	Arts Course	LSRG	Lower Sociology Range
BUS	Business Course	LTAM	Upper Level Amer Lit
CAA	Area Require-Aesth Dimensions	LTIB	Irish or Brit Lit Period Crse
CAH	Area Require-Human Past	LTTP	Engl Maj Spec Tpcs
CAL	Area Require-Literature	MCCP	Comparative Multicultural Mnr
CAN	Area Require-Natural Science	MCSY	Macro-sociology Elective
CAP	Area Require-Philos Questions	MHUL	Upper Level Mathematics
CAQ	Area Require-Quant Reasoning	MINR	Minor Requirement
CAR	Area Require-Relig Dimensions	MORP	Biology Req Morphology
CAS	Area Require-Soc Sci Perspect	MULT	Multicultural Stu Minor
CDE	Disciplinary Require-ENGL	NOEX	No Exam
CDH	Disciplinary Require-HIST	ORPO	Biology Req Organismic Popul
CDP	Disciplinary Require-PHIL	PCST	Peace Studies
CDR	Disciplinary Require-RELG	PERF	Perform Cred-DO NOT USE**
CEMO	Biology Req Cellular Molecular	PHHR	Philosophy Honors Program
CFS	Foundations Sequence	PHY	History of Philosophy
DRAM	Dramatist or Dramatic Movement	PHYL	Biology Req Physiology
ELIT	English Lit	PHYS	Physics-Advanced Physics
ENHR	English Honors Program	PLG	Philosophy-Logic courses
ENUL	Upper Level English	PNH	Pre-Nineteenth Century History
EXCA	Creative Expression	PXEX	Experimental Psych. Courses
FRLT	French Lit Course	RSET	Rel Stu Ethics
FSDV	INSA Interdisciplinary Elec	RSHS	Rel Stu Historical Studies
FSEN	INSA English Dept Elective	RSRT	Rel Stu Religious Thought
FSEC	INSA Envir Stu Dept Elective	RSSC	Rel Stu Scriptural Studies
FSPC	INSA Peace Studies Elective	RSWR	Rel Stu World Religions
FSPS	INSA Political Sci Dept Elec	SPLT	Spanish Lit Course
FSRS	INSA Religious Stu Dept Elec	SYUR	Upper range Sociology Elec
FSSW	INSA Social Work Dept Elec	WRIT	Writing
FSKY	INSA Sociology Dept Elec	WSTU	Women's Studies Minor Elective
HAM	History-American		
HEUR	History-European		
HGC	History/Genre/Criticism		
HMAM	History Minor American		
HMEU	History Minor European		
HNW	History-Non-Western		
HSMR	Health Studies Minor Elective		
HYHR	History Honors Program		
IBME	Intl Bus Minor Econ Elec		
IBMS	Intl Bus Mnr Hum/Soc Stu Elec		

## **Multidisciplinary Courses, Certificates, Minors and Programs**

### **Convivium**

#### **Siena Center for Medieval and Early Modern Studies**

The name Convivium refers to a feast: a “banquet of the mind.” In a pragmatic and practical world, it reminds us that learning at its best is not only functional, but is filled with joy, wonder, and discovery. Convivium is a multidisciplinary, multi-cultural academic program that focuses on the study of the medieval and early modern periods — that is, the time from about 500 to about 1700 CE.

Convivium offers students the opportunity to do individual research and to take courses with faculty who are nationally active in medieval and early modern studies across a variety of disciplines. Convivium also fosters a regional community of teacher-scholars, attracts visiting fellows and scholars to Siena, enriches Siena’s library, and sponsors an annual conference and a program of publications.

**The Convivium Collection** consists of medieval and early modern manuscript leaves, early printed editions, facsimiles, and rare books for teaching and research.

#### **CONV—100. Renaissances and Renewal: Introduction to Medieval and Early Modern Studies 3 credits**

Set between the crumbling of the Roman Empire and the time commonly called the Enlightenment, the Medieval and Early Modern periods encompassed a time of religious diversity, cultural contact, and shifting gender roles. Medieval and Early Modern Studies, a multidisciplinary field, introduces students to the founding traditions of Western Society. This course is an introduction to multidisciplinary medieval and early modern studies (MEMS), emphasizing the nature and methodology of MEMS; the primary source materials for MEMS including documents, poetry, music, art, letters, laws, and/or other sources; and the disciplines that comprise medieval and early modern studies. (ATTR: ARTS, CAH)

### **Criminal Justice Minor**

The interdisciplinary Criminal Justice minor is the result of an increasing level of interest among students and faculty. Historically, this minor emerged as a result of the Sociology Department’s desire to create another avenue of opportunity for students interested in issues associated with the criminal justice field. The cross-fertilization of knowledge associated with the interdisciplinary focus offers students a unique perspective generally not found in more traditional programs of criminal justice. Available coursework for the minor is currently located in Departments of Sociology, Political Science, Psychology, Philosophy and Social Work as well as the Peace Studies Program.

The minor in Criminal Justice is a three-step process. All students are required to take Introduction to Criminal Justice. All students are also required to take either SOCI—260 (Deviant Behavior) or SOCI—310 (Crime and Control) and POSC—374 (Introduction to Criminal Law) or POSC—376 (The Fourth, Fifth, and Sixth Amendments). Finally, all students will take an additional nine semester hours from an approved list of available coursework. NOTE: Sociology majors may take SOCI—190 AND/OR SOCI—260 and/or SOCI—310 as part of their 36 credit hour major. As a result, Sociology majors must take one additional elective for each Sociology course counted in the major. Political Science majors may take POSC—374 and/or POSC—376 as part of their major. If they do, they must take 4 elective courses.

### **Criminal Justice Minor**

#### Required Courses

SOCI—190	Introduction to Criminal Justice (Required)
<i>and</i>	
SOCI—260	Deviant Behavior
<i>or</i>	(Required)
SOCI—310	Crime and Control
<i>and</i>	
POSC—374	Introduction to Criminal Law
<i>or</i>	(Required)
POSC—376	The Fourth, Fifth, and Sixth Amendments
<i>and</i>	

Any three of the following elective courses:

PSYC—220	Abnormal Psychology
* PSYC—345	Drugs and Human Behavior
PCST—240	Topics in Peace Studies: Conflict Resolution
PCST—240	Topics in Peace Studies: Family Violence
PHIL—279	Philosophy of Law
* SWRK—452	Social Work Practice: Drugs and Alcohol

\* Only one of these courses (PSYC—345 or SWRK—452) can be taken for credit in the minor.

### **Environmental Studies Certificate Program**

This certificate program allows students of any major to add an emphasis in environmental issues. It is an appropriate option for those wishing to pursue careers in environmental monitoring, environmental engineering, environmental law, environmental policy, as well as those who simply wish to learn more about the environment. See the Environmental Studies Program information listed within the School of Science for a complete description of the program requirements. Students in this program should consult Dr. Lawrence L. Woolbright, program director, each semester to assure proper course selection.

## Foundations Sequence

The Foundations Sequence, mandated for all first year students, is an introduction to the intellectual life. Students are placed in small classes, which meet with a single professor for the entire year. Classes are structured to emphasize discussion of important issues from a variety of perspectives. To encourage out of class exchanges, there is a common set of readings for all students. These readings, both classic and contemporary, are drawn from various disciplines. As a “foundational” course, the sequence emphasizes those abilities crucial to success in academic life: careful reading, note taking, constructive discussion, and writing. In order to reinforce the notion that “education” in the widest sense occurs as much outside of the classroom as within, field trips to various cultural and artistic sites are part of the program.

**FOUN—100 and FOUN—105:** Foundations Sequence: The Foundations Sequence is a two-semester, writing-intensive course taken sequentially by first year students. It is designed to provide a foundation for the academic and intellectual life. Faculty and students meet in small, interactive classes to explore classical and contemporary works together. Themes for the first semester are Nature, Society, and The Person, and for the second semester, Secular Worldviews, Religious Worldviews, and The American Experience. Students will usually remain with the same faculty member for both semesters. This is a course strictly for first-year students. If students fail one or both semesters, they will have to make up the credits with other core courses, not by re-taking the sequence. Course fee. (ATTR: ARTS, CFS)

## Franciscan Service and Advocacy Minor

This minor provides students with academic and field experiences that focus on working with the poor and marginalized in society. Students of any major are able to select this minor. Through this minor, students will:

- a. Receive some formal orientation to the experience.
- b. Receive education, prior to and following the experience, directed at a better understanding of:
  1. The socio-economic factors and structures which negatively impact these groups,
  2. The basic principles of Catholic Social Teaching, and
  3. The realization that charity (direct service) is the most basic and minimal, not the most adequate, response to the needs of the poor.
- c. Be encouraged to become advocates of the poor and the marginalized after completing their education.

Students intending to pursue a minor in Franciscan Service and Advocacy should declare their intention to the Academic Coordinator of the Franciscan Center for Service and Advocacy, Fr. Dennis Tamburello, O.F.M.

### *Requirements of the Minor:*

6 credits of the following courses:

3 credits from: RELG—401 Franciscan Tradition or PCST—101 Introduction to Peace Studies

3 credits from: INSA—400 Seminar in Franciscan Service and Advocacy and/or INSA—480 Internship in Franciscan Service and Advocacy and

12 credits of the following courses (no more than 6 credits in one department):

ATDV—200	Interdisciplinary Studies: Human Power
ENVA—120	Introduction to Environmental Ethics
ENGL—285	Topics in English: Literature of Peace and Justice
PCST—240	Topics in Peace Studies
	Economics of Poverty (cross-listed ECON—490)
	Children in War and Work (cross-listed POSC—359)
PCST—250	Empowerment, Social Action and Personal Transformation
POSC—265	Public Policy
POSC—360	Environmental Politics
POSC—310	Interest Group Politics
RELG—445	Liberation Theology
RELG—401	Franciscan Tradition (if not used as required course)
RELG—300	Topics in Religious Studies (when topic is appropriate)
SOCI—120	Current Social Problems in America
SOCI—220	Collective Behavior and Social Movements
SOCI—350	Social Stratification and Mobility
SWRK—100	Introduction to Social Welfare and Social Work

### Description of Courses

#### **INSA—400. Seminar in Franciscan Service and Advocacy**

##### **1 credit**

A course to prepare students for INSA—480 Internship in Franciscan Service and Advocacy. The theological and social principles that provide the foundation for service and advocacy among the poor and marginalized will be discussed, particularly as they are expressed in the Franciscan Tradition, but also as they are understood by other religious traditions.

#### **INSA—480. Internship in Franciscan Service and Advocacy**

##### **1, 2, or 3 credits**

Field Study in service and advocacy among the poor and marginalized in the local community (i.e. Capital Region). Students will be expected to work in the field for 40 hours for each credit earned. Students will be required to keep a journal/log of their activities, to attend scheduled classroom seminars and to prepare a final report – a paper or a presentation on a project. Students may receive a maximum of 6 credit hours in internship courses, college-wide. Students will work with the Coordinator of the Internship in Franciscan Service and Advocacy (Fr. Dennis Tamburello, O.F.M.) to select an appropriate site and to determine the suitable form of the final report. Pass/Fail credit will be given, or the course may be taken for quality point grades (A, B, C, etc).

Prerequisites:

1. INSA—400 or other courses as determined by the Coordinator of the Internship in Franciscan Service and Advocacy, and

*Multidisciplinary Courses, Certificates and Minors*

2. Junior or Senior standing, and
  3. Permission of the Coordinator of the Internship in Franciscan Service and Advocacy
- Ordinarily, INSA—400 and 480 are taken concurrently in the same semester.

**Health Care Minors**

The minors in Health Studies and Health Services Administration are offered as a result of diverse interests in the health care industry today. This program provides students, regardless of major, with a cohesive core of courses that focus on significant aspects of health care issues in American society. These courses are not meant to serve as a major, but rather as an area of knowledge within the broader framework of health. As students decide upon careers, such knowledge is beneficial. The program can assist students if they decide upon a career path within some aspect of the broad field of health. Such career paths include, but are not limited to, work in medicine, nursing, public health, hospital administration, epidemiology, insurance, health research, marketing, health finance, health policy and management, medical sociology, and medical social work. Many of these paths require advanced degrees. However, the minors also benefit students who have decided upon career paths that do not include an advanced degree by making them a more marketable candidate to the work world.

Students in either minor are required to take the following auxiliary courses:

SOCI—375                      Comparative Health Care Systems

*and*

ONE of the following

BIOL—020                      Topics in Human Biology

BIOL—110                      General Biology

BIOL—130                      General Biology for the Social Sciences

**Minor in Health Studies**

Students in the Health Studies minor are also required to take four courses from the list below:

SOCI—370                      Medical Sociology

SOCI—240                      The Sociology of Aging

SOCI—490                      Seminar in Sociology (when relevant)

PSYC—225                      Health Psychology

PSYC—345                      Drugs and Human Behavior

POSC—260                      Public Administration

POSC—265                      Public Policy

PHIL—210                      Ethics

PHIL—310                      Genetic Explosion and its Moral Implications

SWRK—452                      Social Work Practice: Drugs and Alcohol

SWRK—453                      Social Work Practice: Grief, Loss, Death and the Dying Process

RELG—360                      Morals and Medicine



- C. Study Abroad and Internships: The Honors Program is flexible enough to allow most Honors Fellows to study abroad, take an internship or participate in other experiential learning. Foreign language study may be needed or may facilitate Honors Thesis work in some disciplines.

Admission to the Honors Program will be by written invitation from the Honors Director, Dr. Karl Barbir. Students already enrolled at Siena may also apply if they have completed 12 credit hours with an overall average of 3.5.

### **International Business Minor**

This minor, open to all students regardless of major, offers students the opportunity to deepen their knowledge and understanding of international business within the context of a liberal, humanistic and ethical tradition.

The requirements for the minor are **18 credit hours** distributed as follows:

**Three courses (9 credit hours) from the following (courses selected must come from at least two different departments):**

- ECON—350 Comparative Economics
- ECON—360 Economic Development
- ECON—370 International Trade Theory
- ECON—380 International Economics
- FINC—413 International Finance
- MKMG—334 International Marketing

**Two courses (6 credits) in one of the following areas:**

Language: two courses beyond the intermediate level

**OR**

Liberal Arts:

two courses beyond the core curriculum disciplinary requirements; these courses would ideally focus on the region of interest. Please see the International Business Minor Advisor (James Nolan) for a listing of courses that meet this guideline.

**BUDV—420. Global Connection 3 credits**

This course will be waived if the student completes a semester abroad in one of the School of Business International Internship programs.

**It is strongly recommended that all students who complete the International Business Minor be competent at the intermediate level in a foreign language.**

### **International Studies**

#### **Foreign Languages and Business Certificate Program**

James R. Nolan, Ph.D., *Director*

This certificate program, open to all students, responds to the need for understanding the international and interdependent dimensions of business in the

modern world. It also provides preparation for careers in international business and for graduate programs in areas with an international focus.

The goals of this program are: to aid students in their understanding of the international and interdependent character of the contemporary world; to enable students to deepen their awareness of the international dimensions of American business; to prepare students for careers in international business by providing them with language competency and knowledge of international affairs; to provide knowledge and training in international business within the context of a liberal, humanistic, and ethical tradition.

Admission to the program requires permission of the director. Students interested in the program are advised to meet with the director by the first semester of their sophomore year.

*Requirements:* To be eligible for the certificate, students must complete the requirements of their major field, and maintain a cumulative grade point average of 2.75. Specific requirements for the certificate are as follows: students will be expected to spend a year or a semester abroad and/or participate in an international internship. They must also complete the following course requirements: competence in a modern foreign language, 18 credit hours of foundational courses, and 18 credit hours of courses with an international focus. All courses that are to count toward the certificate must be pre-approved by the director.

### **I. Language Competency (6 credits or their equivalents)**

1. Two courses beyond the intermediate level, or the equivalent background.

### **II. Foundational Courses (18 credits)**

1. A course in ethics, typically RELG—365, Religion, Values and Business, or PHIL—210, Ethics. Topics or seminar courses dealing with ethics may also satisfy the requirement.
2. Five foundational business courses.

ACCT—200      Accounting I

ECON—101      Principles of Economics, Micro

ECON—102      Principles of Economics, Macro

Plus two of the following:

FINC—212      Money and Banking

FINC—301      Managerial Finance I

FINC—302      Managerial Finance II (FINC—301 and ACCT—205  
are prerequisites for this course.)

MKMG—211      Organization and Management

MKMG—212      Marketing

### III. International Focus Courses

**(18 credits, three of which would optimally be earned via an internship)**

1. Nine to twelve credit hours of humanities and/or social science courses whose content deals specifically with international issues. These courses should be selected in consultation with the program's director, and ideally would focus on the country of interest. Typical of the courses that would satisfy this requirement are the following:

HIST—263      Nineteenth and Twentieth-Century Britain

HIST—415      The French Revolution and Napoleon

POSC—140      Comparative Politics

POSC—150      Introduction to Global Politics

POSC—378      International Law

2. Three to six credit hours of courses in international business, such as, but not restricted to,

ECON—350      Comparative Economic Systems

FINC—413      International Finance

3. International Internship (3 credits).

ATDV, BUDV, or

SCDV—781      International Internship

### Multicultural Studies Minor

Multicultural Studies is an interdisciplinary and comparative program that encompasses scholarship about intercultural relations and constructions of race/ethnicity in social, cultural, historical, political, and economic contexts. The Multicultural Studies minor at Siena introduces students to in-depth analysis of race/ethnicity and culture in the United States and in the nations of origin of peoples of non-European descent. Multicultural Studies courses promote an appreciation of human diversity, and contextualized understanding of the complex history of intercultural relations within the United States and the larger world.

Requirements for the minor: Interested students should meet with the Chair of the Women's and Multicultural Studies Committee, Dr. Rachel Stein, as early in their courses of studies as possible, in order to design an appropriate and coherent program for the minor. 18 credit hours are required for the minor. All Multicultural Studies minors must complete the Seminar in Multicultural Studies (MULT—400), at least one additional Comparative Multicultural Course, and the remaining 4 electives from the list of courses below. No course counted for a student's major may also be counted toward this minor, and students should not take more than 3 courses in any one department.

**MULT—300 Topics in Multicultural Studies**

***African American/Africa Courses***

MULT—110	SOCI—180	Peoples of Africa
MULT—210	RELG—210	Introduction to Islam
MULT—212	CREA—297	Special Topics in Creative Arts — World Music/Africa
MULT—310	HIST—370	Africa I
MULT—312	HIST—373	Africa II (ATTR: ISP, MULT, ARTS, HNW)
MULT—314	SOCI—385	Topics in Sociology — Civil Rights Era
MULT—316	ENGL—370	African American Literature (ATTR: ARTS, CAL, ELIT, ENUL, LTAM, LTIB, MULT)
MULT—410	HIST—461	African American History
MULT—412	HIST—411	Slavery in Historical Perspective (ATTR: CAH, PNH, MULT, HNW, HAM, ARTS, HEUR)
MULT—414	HIST—471	Conflict in South Africa (ATTR: ARTS, HNW, ISP, MULT)

***Latino/Latina Latin America Courses***

MULT—030	SPAN—027	WSTU—330 Women Writers from Latin America in Translation
MULT—330	HIST—340	Latin America — Colonial Period
MULT—332	HIST—343	Latin America — National Period
MULT—334	HIST—345	History of Mexico
MULT—336	SPAN—360	Spanish American Civilization (ATTR: ISP, MULT, ARTS)
MULT—338	POSC—347	Politics and Society of the Americas
MULT—430	HIST—465	Spanish Border Lands
MULT—432	SPAN—460	Latin American Literature

***Asian American / Asia Courses***

MULT—340	HIST—350	History of East Asia I
MULT—342	HIST—353	History of East Asia II (ATTR: ARTS, HNW, FSPS)
MULT—344	HIST—355	South East Asia, Mainland
MULT—464	HIST—357	South East Asia, Archipelago and Islands (ATTR: ARTS, HNW, ISP, MULT)
MULT—348	HIST—360	History of Modern China
MULT—350	HIST—363	History of Modern Japan
MULT—352	POSC—345	Chinese Government and Politics
MULT—354	RELG—385	Buddhist Traditions

**Native American Courses**

MULT—160	SOCI—150	American Indians
MULT—360	ENGL—372	Native American Literature

**Arab American/Middle Eastern Courses**

MULT—210	RELG—210	Introduction to Islam
MULT—370	HIST—330	The Middle East: Foundations of the Modern Experience
MULT—372	HIST—333	The Middle East in Modern Times

**Comparative Multicultural Courses**

MULT—180	POSC—140	Comparative Politics
MULT—182	SOCI—140	Cultural Anthropology (ATTR: ARTS, CAS, LSRG, MCCP)
MULT—280	SOCI—210	American Minorities
MULT—282	ENGL—285	Growing Up in America (ATTR: ARTS, MULT)
MULT—284	ATDV—210	WSTU—100 Perspectives in Women's and Multicultural Studies
MULT—286	POSC—250	United Nations (ATTR: ARTS, ISP, MCCP)
MULT—380	RELG—380	Religions of Native Peoples
MULT—382	ENGL—368	Literature of the War in Viet Nam (ATTR: AMSC, ARTS, CAL, ELIT, ENUL, LTAM, MCCP)
MULT—384	ECON—360	Economic Development (ATTR: MULT, ARTS, MCCP)
MULT—482	RELG—445	Liberation Theology

Description of Courses

**MULT—300. Topics in Multicultural Studies 3 credits**

This course will explore topics in Multicultural Studies that are not part of the regular course offerings. Topics will be announced during registration in the preceding semester. This course may be taken more than once with a different content.

**MULT—400. Seminar in Multicultural Studies 3 credits**

This seminar provides advanced cultural critique and exposure to contemporary innovative, multicultural theory and its applications. Students will challenge the limitations of western scholarship by applying or developing multicultural methodology in a major research project on a non-western topic. The course will also include personal and group interactions with multicultural individuals and community environments. Prerequisite: Students must have completed three courses in Multicultural Studies prior to this course or obtain permission of the instructor.

## Peace Studies Certificate Program

Dr. Edward J. McGlynn, *Director*

Peace is not merely the absence of war...  
but... is rightly and appropriately called  
'an enterprise of justice'”

Isaiah 32:17

(Pastoral Constitution #78 Vatican II)

Peace Studies at Siena is a multi-disciplinary scholarly, practical, and personal pursuit that examines many social justice topics, such as the origins, causes, and justifications of war and other systems of state, group, and interpersonal violence; a just world community; global environmental concerns; intercultural understanding; and non-violent alternatives to injustice, violence and war.

The Siena College Peace Studies program is inspired by Jewish and Christian principles of peace and justice and the values and example of Francis of Assisi, who encouraged humans to be peacemakers not only in their own lives but in the world at large. This vision of peace and justice can be found in many life-affirming religious and philosophical traditions, and has informed the words and actions of many peacemakers, such as Mahatma Gandhi, Martin Luther King, Jr. and Dorothy Day.

The program subscribes to the following general principles articulated by Joseph Fahey in *Education for Justice and Peace*:

1. *Peace education must be solidly academic in nature*: scholarly research is basic to the program, and students are strongly encouraged to consider as many perspectives as possible, not solely that of peace researchers.
2. *Peace studies is multidisciplinary in methods*: peace studies is problem-centered and thus requires the perspectives and methodologies of many disciplines.
3. *Peace studies is 'reconstructionist' in nature*: students should think about the future and about what reforms or inventions may be necessary to produce a more desirable society or world.
4. *Peace studies requires a moral commitment*: although as academics we seek objectivity in our research methodology, we also acknowledge the role of values in the choice of topic and the determination of what is desirable. Peace studies explicitly states its position as being for peace and life and against violence and injustice.
5. *Peace studies must have a 'practical' orientation*: students should realize the applicability of their knowledge towards advancing the goals of peace and justice.

*Certificate Requirements*: Students who wish to participate in the Peace Studies certificate program must meet with the Peace Studies Director no later than the second semester of their sophomore year. Students must complete 24 credit hours to be eligible for the Peace Studies certificate upon

graduation. This includes completion of the three Peace Studies courses: PCST—101, PCST—480, PCST—490, and 15 credit hours in electives, with no more than two elective courses taken in any one department. Appropriate electives are determined through consultation between the student and the Peace Studies Program Director. Courses eligible for Peace Studies elective status are determined by the Peace Studies Committee.

Peace Studies Certificate Students are also eligible to participate in the American University Washington Semester Peace and Conflict Resolution track. After consultation with the Washington Semester coordinator, Dr. Leon Halpert, and the Peace Studies Director, students selecting this option may substitute PCST—789 for PCST—480 and may apply ATDV—788, POSC—790 through 797 toward their Peace Studies electives. See the Washington Semester program section of the catalog for a program description.

## Description of Courses

### **PCST—101. Introduction to Peace Studies 3 credits**

An introduction to the peace studies approach to conflict and conflict resolution from the interpersonal through the international level. Emphasizes the concepts of peace; conflict; violence; the origin, causes, and nature of war; the morality of war; alternatives to war and violence; social justice and injustice; just world order; nonviolent conflict resolution; and intercultural understanding. Course also open to students not electing the certificate.

### **PCST—240. Topics in Peace Studies 3 credits**

An examination of a particular topic which deals with the concepts of peace, conflict, nonviolence, and social justice.

### **PCST—250. Empowerment, Social Action and Personal Transformation 3 credits**

This course investigates the ways in which a commitment to nonviolent social action can transform and significantly empower people to bring about changes in themselves and in the larger society. By examining power and the means of resisting and acquiring it, by studying the ideas and accomplishments of several social activists, and by carrying out one or more projects aimed at social improvement, the instructors hope to assist the students in understanding how people can act to take control of their lives and achieve their goals for attaining a more peaceful and just world.

### **PCST—480. Internship in Peace Studies 3 credits**

Provides students with experience using the peace studies approach to peace, conflict resolution and social justice through placement with private and governmental organizations. Students are required to work 8 to 10 hours per week. Evaluation is made by the staff of the participating institution and the Peace Studies Program Director. Prerequisites: PCST—101 and permission of the Director.

**PCST—490. Seminar in Peace Studies 3 credits**

An integration of the Peace Studies program which involves examining and carrying out scholarly research on some particular aspects of peace, war, conflict resolution, violence, nonviolence, social justice or injustice, intercultural understanding, or a just world order. Prerequisites: PCST—101, PCST—480 or PCST—789, and at least 9 credits of Peace Studies electives.

**\*\*\*PCST—789. Washington Semester Peace Studies Internship  
4 credits**

This is the Peace Studies Internship for the Washington Semester Program, Peace and Conflict Resolution track. It provides students with a firsthand experience as a member of a staff directly involved in peace building and conflict resolution. The internship will be available with congressional offices, research think tanks and interest groups. Students will work two full days each week of the semester. Student evaluations will be based upon criteria established by academic and office supervisors. Prerequisites: PCST—101, POSC—100 and the permission of both the Peace Studies Director and the Washington Semester Coordinator, Dr. Leon Halpert.

## Women's Studies Minor

Women's Studies is an interdisciplinary field encompassing scholarship about women and gender. The Women's Studies minor at Siena introduces students to the analysis of gender roles in a variety of cultures, fosters an appreciation of diverse women's contributions to society and the arts, and trains students in the theories and research methodologies of women's studies. This minor offers students a means for understanding social, intellectual, and political forces that mold both men's and women's lives, and aids students in challenging sexism and other sorts of oppressions.

Requirements for the minor: Interested students should talk with the Chair of the Women and Multicultural Studies Committee, Dr. Rachel Stein. Students interested in the minor should meet Dr. Stein as early in their course of studies as possible. 18 credit hours are required for the minor. Students will choose 5 elective courses from the following list. All Women's Studies minors must also complete the capstone seminar course, WSTU—400 Women's Studies Seminar.

Elective Courses:

WSTU—100	Perspectives on Women's and Multicultural Studies (ATDV—210)
WSTU—200	Women in Antiquity (CLSS—210) (ATTR: CAH, WSTU)
WSTU—210	Women in Literature (ENGL—210) (ATTR: ARTS, CAL, WSTU)
WSTU—215	Sexuality in Literature (ENGL—215)

\*\*\* Offered when there is sufficient student interest

## Multidisciplinary Courses, Certificates and Minors

WSTU—220	Philosophy and the Feminine (PHIL—285)
WSTU—230	Women and Politics (POSC—218) (ATTR: ARTS, WSTU)
WSTU—240	Psychology of Women (PSYC—120) (ATTR: ARTS, WSTU)
WSTU—250	Women and Religion (RELG—250)
WSTU—260	Sociology of Sex and Gender (SOC1—230)
WSTU—300	Topics in Women's Studies
WSTU—305	U.S. Women's History (HIST—325)
WSTU—310	Women in European History (HIST—375)
WSTU—320	Modern Men, Meaning and Morality (RELG—375)
WSTU—330	Women Writers from Latin America: Literature in Translation (SPAN—027)

Because of the interdisciplinary nature of the program, many Women's Studies courses are cross-listed in other departments of the College. The course descriptions, including the years when they are offered and the prerequisites, can be found in the appropriate departmental section of the catalog. It is anticipated that students pursuing a Minor in Women's Studies and students who take only selected courses without pursuing the minor will choose the WSTU number. Courses that are counted toward a student's major may not also be counted toward the Women's Studies minor. The content and requirements of cross-listed courses are not affected by which course number the student selects for registration.

### Description of Courses

#### **WSTU—300. Topics in Women's Studies 3 credits**

This course will explore topics in Women's Studies that are not part of the regular course offerings. Topics will be announced during pre-registration in the preceding semester. This course may be taken more than once with a different content. (ATTR: ARTS, WSTU)

#### **WSTU—400. Women's Studies Seminar 3 credits**

This seminar provides an advanced overview of the field of Women's Studies. The course emphasizes feminist theory, women's studies research methodologies, and contemporary political activism. Students complete advanced research projects, give group presentations, and engage in cooperative social justice actions. Prerequisite: Completion of 3 Women's Studies courses or permission of instructor.





# School of Liberal Arts

*Dean:* T.B.D., *Asst. Dean:* Dr. Leon Halpert,  
*Asst. to the Dean:* Ms. Diane Speece

## Courses

### **ATDV—100. Adirondack New York and Americana 3 credits**

A full-year, three credit course that will expose students to the geology, ecology, history, literature, and folklore of the Adirondack region. In addition to 16 hours of lecture per year, the student is required to report on museum visits, make camping trips, and otherwise involve him or herself in the region and its history. Fee Required.

### **ATDV—105. Topics in Film 3 credits**

A full-year, three credit course that will offer students an opportunity to examine film as an art, as a social document, and in its relation to literature. The study will be developed around select themes such as War in American Film, Film Genre, The Western, and Musicals.

### **ATDV—110. Statistics for Social Science 3 credits**

An introduction to statistical procedures and analysis, including descriptive and inferential statistics. Descriptive statistics include such areas as frequency distributions, measures of central tendency, and variance. Inferential statistics include tests of hypotheses for means, analysis of variance, and linear correlation. Not open to students who have taken QBUS—200 Business Statistics I.

### **ATDV—200. Interdisciplinary Studies I 3 credits**

Interdisciplinary Studies I examines issues facing human beings in today's natural world from the points of view of a variety of academic disciplines. Generally, different topics are covered each time the course is offered. Open to sophomore-level students and above.

### **ATDV—205. Interdisciplinary Studies II 3 credits**

Interdisciplinary Studies II examines issues facing human beings in today's social world from the points of view of a variety of academic disciplines. Generally, different topics are covered each time the course is offered. Open to sophomore-level students and above.

### **ATDV—210. Perspectives on Women's and Multicultural Studies 3 credits**

An interdisciplinary course designed to identify racist, heterosexist, ageist, anti-semitic, ableist, etc. assumptions in conventional scholarship; to develop an interdisciplinary critique of knowledge; to describe the development of stereotypes about disenfranchised groups throughout western culture; to recognize the contributions of women and members of other disenfranchised groups in various fields of human endeavor; to develop a holistic appreciation of the diversity of society. (Same as WSTU—100)

**ATDV—250. Topics in the Humanities 3 credits**

This course deals with topics and themes which cross normal disciplinary boundaries. The particular content will be indicated by subtitle. The course may be taken more than once with different content. Prerequisites will be set by the faculty teaching a specific course under this rubric.

**ATDV—480. Internship in School of Liberal Arts**

**1 - 6 credits (6 credits maximum.)**

Internship opportunities not covered by departmental areas. Permission of Dean required.

**ATDV—499. Independent Study in the School of Liberal Arts**

**1 - 3 credits**

This course provides an opportunity for seniors with a 3.0 or above to pursue independent study that is interdisciplinary or that does not fit within a single department's guidelines. The permission of a faculty member and the Dean is required.

**ATDV—779. Topics in Intercultural Understanding, Arts 4 credits**

This course, offered in a foreign country, is an intensive study of specific topics associated with international internships. The nature of the student's research will determine which division will award credit. The course will typically involve a high degree of independent research, oral presentations by the students, and a well-documented writing assignment. Besides the specific research coordinated with an internship, the course will emphasize issues in intercultural communication. A student will earn four credits for this course.

**ATDV—781. International Internship, Arts 3 - 8 credits**

A student may earn 3-8 credits by serving as an intern in a foreign country. Placements are available for students from each school. The nature of the internship will determine which division will allocate credit. Typical opportunities include work in parliaments, law offices, theatres, museums, non-profit organizations, banking, hospitals and businesses. Students will work from 10 to 32 hrs. a week, depending on the program selected. The internship will involve a sizeable research project linked to the work undertaken. Prerequisites: students must be at least juniors, demonstrate self-motivation, good communication skills and trustworthiness. The GPA requirement is 2.75. Students who wish this internship to be counted as an equivalent to an internship in a department, must receive advance permission from the head of that department.

**ATDV—787. Washington Semester Elective 3 credits**

Course to be determined by the student and Washington Semester Program Director. Students can select a course in subject areas such as History, Literature, Sociology, Computer Science, Mathematics, Biology, etc.

**ATDV—788. Washington Semester Research 4 credits**

Consists of the research component of the Washington Semester Program. The student will pursue an independent research project under the

direction of a faculty person in the academic track (American Government, Economic Policy, Justice, Foreign Policy or Peace and Conflict Resolution) that the student has selected for study in the Washington Semester Program. (See ECON—790-793, PCST—789, POSC—790-797.) See the Washington Semester section of the catalog for a description of this program.

**ATDV—789. Internship in Washington Semester 4 credits**

This is the internship component of the Washington Semester Program. This provides the student with first-hand experience in an organization directly involved with the academic track being followed. The internship will be available with Congressional Offices and Committees, Executive branch agencies, interest groups, research think tanks and the media. Students work two full days each week of the semester. Student evaluations will be based upon criteria established by academic and office supervisors. See the Washington Semester section of the catalog for a description of this program.

## American Studies Program

*Director:* Karen W. Mahar, *Asst. Prof.*

The American Studies Program attempts to develop in the student a fuller understanding of the American experience by presenting different methodological approaches to the same cultural problems. By concentrating on American themes, the student is given a deeper insight into American culture and its relationship to other cultures. Secondary certification available in Social Studies. Consult with the Director for specific requirements.

*Requirements for the Major:* Each student must complete 42 hours in American Studies including at least the minimum number of hours indicated in each of the following areas: Area A, 18-21; Area B, 12-15; Area C, 6-9 hours. (See below and course descriptions.) To integrate his/her work, the American Studies major must also complete a six-hour senior project or colloquium. Since a background in European culture is necessary for an understanding of the American experience, six hours of a foreign language will also be required.

*Requirements for the Minor:* 18 credits including HIST—203 American History I and HIST—204 American History II, one other course from Area A, two courses from Area B and/or C, and AMST—450. History majors who wish to minor in American Studies are required to take 15 credits from Area B and/or C and AMST—450.

*Education Certification:* American Studies majors seeking initial certification (grades 7-12) in Social Studies should consult the director for specific requirements in education. As part of the 30 to 36 hours from areas A and B, students must take HIST—327 New York State History, and one course each in economics, political science, and sociology. In addition, students must take

at least one six-hour survey in European history and six hours in non-Western history. Six hours of a language other than English at the college level are also required.

Courses other than those listed below may be included in the student's program subject to the approval of the Director.

### Description of Courses

#### **AMST—450 and AMST—451. Senior Project and/or Colloquium I and II 3 credits**

To integrate the experience gained through the various departments, majors are required to complete a senior project or to participate in a colloquium in the field of American Studies. This constitutes an ancillary requirement. Permission of the Director is required. (ATTR: ARTS)

#### **\*\*\*AMST—480. Internship in American Studies 3 credits**

Work in historical societies, museums, resource centers, etc. (Evaluation of such credit is made by staff of the participating institution and the Director.) Permission of the Director is required. (Same as HIST—480.)

Course descriptions for the following areas may be found under the appropriate department.

#### **Area A**

<b>HIST—203-204</b>	<b>American History I &amp; II</b>
<b>HIST—310</b>	<b>U.S. Colonial History, 1600-1789</b>
<b>HIST—313</b>	<b>The Federal Union, 1789-1850</b>
<b>HIST—315</b>	<b>The Civil War and Reconstruction, 1850-1877</b>
<b>HIST—320</b>	<b>Emergence of Modern America, 1869-1920</b>
<b>HIST—323</b>	<b>Contemporary America, Since 1920</b>
<b>HIST—325</b>	<b>United States Women's History</b>
<b>HIST—327</b>	<b>New York State History</b>
<b>HIST—401</b>	<b>Colloquium in History (when topic is appropriate)</b>
<b>HIST—451-453</b>	<b>Intellectual and Social History in the United States I &amp; II</b>
<b>HIST—455</b>	<b>The Westward Movement, 1750-1890</b>
<b>HIST—457</b>	<b>History of American Immigration</b>
<b>HIST—461</b>	<b>African-American History</b>
<b>HIST—463</b>	<b>U.S. Military History</b>
<b>HIST—465</b>	<b>Spanish Borderlands</b>
<b>HIST—390-490</b>	<b>Honors Seminar (when topic is appropriate)</b>

\*\*\* Offered when there is sufficient student interest

**Area B**

<b>ECON—230</b>	<b>Economic History of the United States</b>
<b>POSC—100</b>	<b>Introduction to American Politics</b>
<b>POSC—205</b>	<b>State and Local Government</b>
<b>POSC—305</b>	<b>Metropolitan Government</b>
<b>POSC—313</b>	<b>American Political Parties</b>
<b>POSC—315</b>	<b>U.S. Congress</b>
<b>POSC—320</b>	<b>The American Presidency</b>
<b>POSC—329</b>	<b>Special Studies in American Politics</b>
<b>POSC—351</b>	<b>U.S. Foreign Policy</b>
<b>POSC—370-372</b>	<b>Civil Liberties I &amp; II</b>
<b>SOCI—120</b>	<b>Current Social Problems in America</b>
<b>SOCI—130</b>	<b>The Family</b>
<b>SOCI—150</b>	<b>American Indians</b>
<b>SOCI—210</b>	<b>American Minorities</b>

**Area C**

<b>ATDV—105</b>	<b>Topics in Film (when topic is appropriate)</b>
<b>CREA—225</b>	<b>American Art</b>
<b>CREA—230</b>	<b>American Music</b>
<b>CREA—235</b>	<b>American Musical Theatre</b>
<b>CREA—240</b>	<b>American Theatre</b>
<b>EDUC—220</b>	<b>History of Education in the United States</b>
<b>ENGL—206</b>	<b>Survey of American Literature I</b>
<b>ENGL—207</b>	<b>Survey of American Literature II</b>
<b>ENGL—345</b>	<b>Early American Literature (1600-1830)</b>
<b>ENGL—350</b>	<b>American Renaissance (1830-1865)</b>
<b>ENGL—355</b>	<b>The Realistic Movement in American Literature (1865-1915)</b>
<b>ENGL—360</b>	<b>American Literature of the Jazz Age</b>
<b>ENGL—365</b>	<b>Literature of the Cold War (1945-70)</b>
<b>ENGL—368</b>	<b>The Literature of the War in Vietnam</b>
<b>ENGL—370</b>	<b>African American Literature</b>
<b>ENGL—372</b>	<b>Native American Literature</b>
<b>PHIL—420</b>	<b>Classic American Philosophy</b>
<b>RELG—305</b>	<b>A History of Religion in America</b>
<b>RELG—310</b>	<b>The American Evangelical Tradition</b>
<b>RELG—315</b>	<b>American Catholicism</b>

## Creative Arts Department

*Head:* Mr. Gregory J. Zoltowski *Prof.*

*Asst. Prof.:* Dr. Paul Konye, Ms. Carol Luce, Br. Gary Maciag, O.F.M.

The goal of the Creative Arts Department is to engage students with works of the creative imagination in the visual arts, in music and in theatre. Courses are designed to achieve this goal through three approaches: 1) by developing within students an aesthetic appreciation of the arts of the world in which they live; 2) by enabling students to understand the arts as they reflect the cultural spirit of various epochs in human experience; and 3) by encouraging the unlocking and development of students' own creative potential.

In its major, the Department seeks to enable students to move freely among the disciplines of the visual arts, music and theatre. The major provides a formal interdisciplinary program of study that shows the interdependence among these art forms and utilizes current interdisciplinary as well as traditional scholarship. Through a curriculum which encourages students to create and respond to various art forms, students will be prepared for further academic or professional studies in the arts and related fields such as arts design, arts legislation, arts management, arts therapy, arts conservation, or arts promotion or to pursue a career as an artist (where apprenticeship and training are provided in the field). Students will have the opportunity to solicit directed advisement from the Creative Arts faculty in order to design individualized programs of study. The Creative Arts major offers students a unique opportunity to combine their diverse interests through a coherent program of study with academic flexibility and a marketable edge.

*Requirements for the Major:* The requirements for the major are as follows: 36 credits in Creative Arts courses including 3 credits of foundational courses in each of the chosen disciplines (CREA—102-104); 3 credits of introductory integrated arts study (CREA—101); 9 credits of courses in creative expression in the chosen disciplines (CREA—110-145, 245-330, 350-420); 9 credits of courses in history/genre/criticism in the chosen disciplines (CREA—150-240, 297, 340, 397); 6 credits of electives in any Creative Arts courses in creative expression or history/genre/criticism; and 3 credits in advanced integrated arts study with a major project (CREA—490).

*Requirements for the Minor:* An interdisciplinary minor is also offered in the Creative Arts. Students are required to choose two Creative Arts disciplines for focused study. The requirements are as follows: 18 credits in Creative Arts courses, including a 3 credit foundational course in one of the chosen fields (CREA—102-104); 3 credits in introductory integrated arts study (CREA—101); 6 credits in courses in creative expression in the chosen disciplines (CREA—110-145, 245-330, 350-420); and 6 credits in history/genre/criticism in the chosen disciplines (CREA—150-240, 297, 340, 397).

The Department also offers a 24-credit Theatre Certificate Program that provides an opportunity to engage in a structured curriculum in theatre studies and receive certification.

***Suggested Visual Arts and Music Integration***

**Foundational Courses: 6cr**

- CREA—102 Introduction to Visual Art  
CREA—103 Introduction to Music

**Introductory Integrated Course: 3cr**

- CREA—101 Introduction to Creative Arts

**Creative Expression Courses: 9cr in two disciplines**

- CREA—110 Basic Design I  
CREA—310 Basic Design II  
CREA—115 Drawing I  
CREA—315 Drawing II  
CREA—320 Painting I  
CREA—420 Painting II  
CREA—325 Graphics  
CREA—120 Chorus (must be taken for full year)  
CREA—125 Basics of Singing  
CREA—297 Special Topics in Creative Arts  
CREA—397 Advanced Topics in Creative Arts

**History/Genre/Criticism: 9cr in two disciplines**

- CREA—150 Art to the 15th Century  
CREA—151 Art from the 15th Century  
CREA—215 Renaissance Art  
CREA—220 Modern Art  
CREA—225 American Art  
CREA—160 Music to the Romantic Period  
CREA—161 Music from the Romantic Period  
CREA—230 American Music  
CREA—235 American Musical Theatre  
CREA—205 Opera I  
CREA—340 Opera II  
CREA—297 Special Topics in Creative Arts  
CREA—397 Advanced Topics in Creative Arts

**Major Electives: 6cr in any Creative Expression or History/Genre/Criticism categories for all disciplines**

- Capstone Integrated Course**  
CREA—490 Seminar in Creative Arts

***Suggested Visual Arts and Theatre Integration***

- Foundational Courses: 6cr**  
CREA—102 Introduction to Visual Art  
CREA—104 Introduction to Theatre
- Introductory Integrated Course: 3cr**  
CREA—101 Introduction to Creative Arts
- Creative Expression Courses: 9cr in two disciplines**  
CREA—110 Basic Design I  
CREA—310 Basic Design II  
CREA—115 Drawing I  
CREA—315 Drawing II  
CREA—320 Painting I  
CREA—420 Painting II  
CREA—325 Graphics  
CREA—135 Voice and Movement  
CREA—140 Acting I  
CREA—330 Acting II  
CREA—145 Introduction to Theatre Technology  
CREA—245 Scenery Design  
CREA—247 Lighting and Sound Design  
CREA—250 Costume and Make-up Design  
CREA—350-354 Theatre Practicum  
CREA—400 Directing  
CREA—297 Special Topics in Creative Arts  
CREA—397 Advanced Topics in Creative Arts  
CREA—480 Theatre Internship

- History/Genre/Criticism: 9cr in two disciplines**  
CREA—150 Art to the 15th Century  
CREA—151 Art from the 15th Century  
CREA—215 Renaissance Art  
CREA—220 Modern Art  
CREA—225 American Art  
CREA—170 Theatre to the Restoration  
CREA—171 Theatre from the Restoration  
CREA—240 American Theatre  
CREA—297 Special Topics in Creative Arts  
CREA—397 Advanced Topics in Creative Arts

**Major Electives: 6cr in any Creative Expression or History/Genre/Criticism categories for all disciplines**

- Capstone Integrated Course**  
CREA—490 Seminar in Creative Arts

***Suggested Music and Theatre Integration***

- Foundational Courses: 6cr**
- CREA—103 Introduction to Music  
 CREA—104 Introduction to Theatre
- Introductory Integrated Course: 3cr**
- CREA—101 Introduction to Creative Arts
- Creative Expression Courses: 9cr in two disciplines**
- CREA—120 Chorus (must be taken for full year)  
 CREA—125 Basics of Singing  
 CREA—135 Voice and Movement  
 CREA—140 Acting I  
 CREA—330 Acting II  
 CREA—145 Introduction to Theatre Technology  
 CREA—245 Scenery Design  
 CREA—247 Lighting and Sound Design  
 CREA—250 Costume and Makeup Design  
 CREA—350-354 Theatre Practicum  
 CREA—400 Directing  
 CREA—297 Special Topics in Creative Arts  
 CREA—397 Advanced Topics in Creative Arts
- History/Genre/Criticism: 9cr in two disciplines**
- CREA—160 Music to the Romantic Period  
 CREA—161 Music from the Romantic Period  
 CREA—230 American Music  
 CREA—235 American Musical Theatre  
 CREA—205 Opera I  
 CREA—340 Opera II  
 CREA—170 Theatre to the Restoration  
 CREA—171 Theatre from the Restoration  
 CREA—240 American Theatre  
 CREA—297 Special Topics in Creative Arts  
 CREA—397 Advanced Topics in Creative Arts
- Major Electives: 6cr in any Creative Expression or  
 History/Genre/Criticism categories for all disciplines**
- Capstone Integrated Course**
- CREA—490 Seminar in Creative Arts

## Description of Courses

### **CREA—101. Introduction to Creative Arts 3 credits**

This course will introduce students to the vocabulary, interpretive strategies and collaborative processes essential to developing their own ideas of interrelationships among various disciplines in the creative arts. Attendance at arts events outside of class is required. This course is required for departmental minors; it is open to all students. (ATTR: ARTS, CAA)

### **CREA—102. Introduction to the Visual Arts 3 credits**

An introduction to a wide variety of forms and themes of the visual arts of the past and present. Students will learn the vocabulary necessary for analyzing and critically evaluating art. Attendance at a museum or gallery show is required. (ATTR: ARTS, CAA)

### **CREA—103. Introduction to Music 3 credits**

An introduction to the major forms, techniques, and composers in all epochs of music history to develop a better understanding and enjoyment of the art of music. CREA—103 may not be taken in the same semester with CREA—160. Attendance at designated music performances will be required. (ATTR: ARTS, CAA)

### **CREA—104. Introduction to Theatre 3 credits**

An introductory exploration of the various elements involved in creating and responding to the theatre. This course will expose the student to the creative aspects of playwriting, acting, directing and design and will develop the critical skills necessary to the informed audience member. Through discussion and attendance at both professional and academic productions, the student will be exposed to the complexities of the art form and entertainment industry. This course is designed for students with no theatre experience as well as those already acquainted with the stage. A field trip to a professional production is required. Lab Fee. (ATTR: ARTS, CAA)

### **CREA—110. Basic Design I 3 credits**

A foundation studio course exploring two-dimensional design problems through a controlled sequence of exercises in drawing, abstract black and white composition, and basic color theory and its application to design. Emphasis is placed upon developing a student's personal appreciation and creative expression rather than professional skill. Studio fee. (ATTR: ARTS, CAA, EXCA)

### **CREA—115. Drawing I 3 credits**

An introductory studio course designed to sharpen skills of visual perception, representation, and invention in drawing. Various media and techniques are explored in relation to subjects drawn from nature, including the figure and imagination. Studio fee. (ATTR: ARTS, CAA, EXCA)

### **CREA—120. Chorus 3 credits**

A full-year, three credit course, which offers a study of choral literature from the Renaissance to the present, with emphasis on performance and vocal

and musical development as they relate to the music studied. May be repeated with different content. No prerequisite. Audition by instructor is required. (ATTR: ARTS, EXCA)

**CREA—125. Basics of Singing 3 credits**

Through readings, vocal exercises, and the study of song literature, students will develop basic techniques used in singing including breath control, sound production, resonance, articulation, respiration & registration. Also included will be principles of song interpretation and presentation, and overcoming performance anxiety. (ATTR: ARTS, EXCA)

**CREA—135. Voice and Movement 3 credits**

This is a performance course in physical and vocal technique for the stage and other performance media. General physical limbering and awareness and the development of a free and natural speaking voice pave the way for extensive exercises for the breath, resonance and vocal articulation as well as methodologies in movement, which include improvisation, group performances and individual movement techniques designed to increase the body's expressiveness. Presentations of scripted material, extracts from dramatic literature or poetry form the periodic "onstage" portion of this practical performance course. A field trip to a professional production is required. Lab fee. (ATTR: ARTS, CAA, EXCA)

**CREA—140. Acting I (2 hours lecture, 2 hours lab) 3 credits**

Students are acquainted with the process of actor training and character development through workshop, discussion, and attendance at professional and academic productions. Laboratory sessions are devoted to the preparation of scenes, exploration of the actor's body and voice, and an examination of the student's ability to feel, to communicate, and to imagine. This course is designed for students with no previous acting experience or those with some experience, but no training. A field trip to a professional production is required. Lab Fee. (ATTR: ARTS, CAA, EXCA)

**CREA—145. Introduction to Theatre Technology  
(2 hours lecture, 2 hours lab) 3 credits**

An exploration of the theory and technique of current theatre technology, including scenery construction, scene painting, properties, lighting, sound, and costuming. Through discussions and laboratory experience in two campus productions, students will learn the practical application of theatre technology to the aesthetics of design. This course is designed for students with no theatre experience as well as those already acquainted with the stage. A field trip to a professional production is required. Lab Fee. (ATTR: ARTS, CAA)

**CREA—150. Art to the 15th Century 3 credits**

A basic survey of the visual arts with the intention of developing the student's appreciation and knowledge of art as an expression of human culture from its origins to the 15th century. Small group field trips to local architectural sites are required. (ATTR: ARTS, CAA, HGC)

**CREA—151. Art from the 15th Century 3 credits**

A basic survey of the visual arts with the intention of developing the student's appreciation and knowledge of art as an expression of human culture from the 15th century to the present. (ATTR: ARTS, CAA, HGC)

**CREA—160. Music to the Romantic Period 3 credits**

A study of music designed to develop the student's appreciation and knowledge of music as an expression of human culture to the Romantic Period. (ATTR: ARTS, CAH, HGC)

**CREA—161. Music from the Romantic Period 3 credits**

A study of music designed to develop the student's appreciation and knowledge of music as an expression of human culture from the Romantic Period to the present. A prior music course is highly recommended, or consult instructor. (ATTR: ARTS, CAH, HGC)

**CREA—170. Theatre to the Restoration 3 credits**

A survey of the rise and development of world theatre, from its origins through the English Restoration, focusing on theatre architecture, plays, acting styles, theatrical conventions, methods of production and critical perspectives during significant periods of theatrical activity. This course is designed for students with no theatre experience as well as those already acquainted with the stage. A field trip to a professional production is required. Lab Fee. (ATTR: ARTS, CAH, HGC)

**CREA—171. Theatre from the Restoration 3 credits**

A survey of the development of world theatre covering material from 17th century theatre through contemporary achievements, focusing on theatre architecture, plays, acting styles, theatrical conventions, methods of production and critical perspectives during significant periods of theatrical activity. This course is designed for students with no theatre experience as well as those already acquainted with the stage. A field trip to a professional production is required. Lab Fee. (ATTR: ARTS, CAH, HGC)

**CREA—205. Opera I 3 credits**

A survey of operatic styles and major composers principally from early to modern opera geared to those students who are just beginning, or who have not yet begun, to take an interest in opera as well as for those who desire to know more about an art form they already enjoy. There is a required field trip.

**CREA—215. Renaissance Art 3 credits**

A survey of the arts of Italy and northern Europe in the fifteenth and sixteenth centuries, viewed in light of the humanism and naturalistic outlook of the period.

**\*\*\*CREA—220. Modern Art 3 credits**

The survey of major concepts in the visual arts from impressionism to the present.

\*\*\* Offered when there is sufficient student interest

**CREA—225. American Art 3 credits**

A study of art in the United States from the seventeenth to the twentieth century considering both the European influence and American styles. Small group field trips to local/regional historic houses and museums are required. (ATTR:AMSC, ARTS, CAH, HGC)

**CREA—230. American Music 3 credits**

A survey of American music from the seventeenth century to the present. Attention will be given to the contributions of the early settlers, the influence of folk traditions, the contributions of ethnic and minority groups, and the major lines of development in symphonic music.

**CREA—235. American Musical Theatre 3 credits**

An examination of the works of American composers inspired by the theatre, the unique qualities of theatre music and its contribution to American culture. Areas studied include early ballad operas, black minstrelsy, opera vaudeville, musical comedy, ballet, and dramatic background music.

**CREA—240. American Theatre 3 credits**

The course will introduce the student to the unique ways in which theatre has reflected American society. Through class discussion, film, selected readings and attendance at both professional and academic productions, the student will examine the various means through which theatre addresses issues of race, gender, culture and politics in ways that are both entertaining and instructive. This course is designed for students with no theatre experience as well as those already acquainted with the stage. A field trip to a professional production is required. Lab Fee. (ATTR:AMSC, ARTS, CAH, HGC)

**CREA—245. Scenery Design (2 hours lecture, 2 hours lab)  
3 credits**

A study of the aesthetics and mechanics of designing scenery for the stage. Students will utilize design, drafting and presentation skills developed in class to create scene renderings, elevations, models and working drawings based on the interpretation of a theatrical script. This course is designed for students with no theatre experience as well as those already acquainted with the stage. A field trip to a professional production is required. Lab Fee. (ATTR:ARTS, CAA, EXCA)

**CREA—247. Lighting and Sound Design (2 hours lecture,  
2 hours lab) 3 credits**

A study of the aesthetics and mechanics of designing lighting and sound for the stage. Students will utilize design, drafting and presentation skills developed in class to create lighting cues, lighting plots, electrician schedules, sound plots, sound cues and sound recordings based on the interpretation of a theatrical script. Students will have the opportunity to explore the principles of lighting in a lighting laboratory using current technology. Students will also use current sound technology to record, construct and

manipulate sound effects. This course is designed for students with no theatre experience as well as those already acquainted with the stage. A field trip to a professional production is required. Lab fee. (ATTR: ARTS, CAA, EXCA)

**CREA—250. Costume and Makeup Design (2 hours lecture, 2 hours lab) 3 credits**

A study of the aesthetics and mechanics of designing costumes and makeup for the stage. Students will utilize design and drafting skills developed in class to create costume renderings and patterns as well as makeup plots and palettes based on the interpretation of a theatrical text. This course is designed for students with no theatre experience as well as those already acquainted with the stage. A field trip to a professional production is required. Lab Fee. (ATTR: ARTS, NOEX)

**CREA—260. Music Theory I Elementary Harmony 3 credits**

Music Theory I is an introductory course in elementary harmony. Its main objective is to engage students in, and guide them through, the creative processes involved in music making and analysis through music notation, melodic writing, and elementary harmony. The stated objectives are achieved by engaging students in frequent hands-on in-class exercises and a final project.

**CREA—297. Special Topics in Creative Arts 3 credits**

Selected areas of study in visual art history, studio art, music or theatre. Sample topics include: women in art, music, or theatre, vocal performance, elements of theatre design, world music, video art and watercolor. May be taken more than once with different content. A field trip to a professional music or theatre production, museum or visual art exhibition may be required. Lab fee. Consult the fall and spring schedules for specific content and length of class sessions.

**CREA—310. Basic Design II 3 credits**

A basic studio course exploring three-dimensional design problems through a controlled sequence of projects dealing with form in space. Emphasis is placed upon developing a student's personal appreciation and creative expression rather than professional skill. Prerequisite: CREA—110 or 150 or permission of the instructor. Studio fee.

**CREA—315. Drawing II 3 credits**

An intermediate level studio course designed to expand the student's knowledge of drawing techniques and media and to increase the range of creative application. Students will study still life, landscape, and figure directly and pursue a series of exercises designed to develop their own personal expression. Prerequisite: CREA—115 or permission of the instructor. Studio fee.

**CREA—320. Painting I 3 credits**

A beginning studio course in the problems of composition, value structure, color mixing, and various painting techniques with oils or other

media. Students use drawing and painting in the study of nature and still life. Prerequisite: CREA—102, 110 or 115, or permission of the instructor. Studio fee.

**CREA—325. Graphics 3 credits**

A beginning studio course exploring the graphics print media. Problems of composition, color coordination, and image construction are explored using a range of techniques. Prerequisite: CREA—102, 110 or 115, or permission of the instructor. Studio fee.

**CREA—330. Acting II (2 hours lecture, 3 hours lab) 3 credits**

A rigorous exploration of both the theory and practice of acting for the stage, focusing on textual analysis and its integration into the rehearsal process, improvisation and its contribution to role preparation, contemporary methods of actor training, audition techniques, and acting in non-linear or non-traditional roles. Students will prepare scenes and audition monologues as an integral part of the course of instruction. This course is designed for students with prior on-stage experience and training in acting. A field trip to a professional production is required. Prerequisite: CREA—140. Lab Fee.

**\*\*\*CREA—340. Opera II 3 credits**

A continuation of CREA—205. Prerequisite: CREA—205, or permission of instructor.

**CREA—350. Acting Practicum 1 - 3 credits**

This course awards academic credit to eligible students for the laboratory exploration of theatrical process as actors in the production program. The number of credits awarded will be determined in advance by the Program faculty on the basis of workload and the degree of difficulty of the assignment. A satisfactory written report, practicum journal, and participation in the production program will determine the final grade. CREA—350-354 may be taken more than once to a maximum of six credits, but may not exceed three credits in any one semester. A field trip to a professional production is required. Lab Fee. Prerequisites: Permission of program director and CREA—140.

**CREA—351. Directing Practicum 1 - 3 credits**

This course awards academic credit to eligible students for the laboratory exploration of theatrical process as directors in the production program. The number of credits awarded will be determined in advance by the Program faculty on the basis of workload and the degree of difficulty of the assignment. A satisfactory written report, practicum journal, and participation in the production program will determine the final grade. CREA—350-354 may be taken more than once to a maximum of six credits, but may not exceed three credits in any one semester. A field trip to a professional production is required. Lab Fee. Prerequisites: Permission of program director and CREA—400.

*\*\*\* Offered when there is sufficient student interest*

**CREA—352. Design Practicum 1 - 3 credits**

This course awards academic credit to eligible students for the laboratory exploration of theatrical process as designers in the production program. The number of credits awarded will be determined in advance by the Program faculty on the basis of workload and the degree of difficulty of the assignment. A satisfactory written report, practicum journal, and participation in the production program will determine the final grade. CREA—350-354 may be taken more than once to a maximum of six credits, but may not exceed three credits in any one semester. A field trip to a professional production is required. Lab Fee. Prerequisites: Permission of program director and CREA—245 (Scenery Design) or CREA—250 (Costume/Makeup Designers).

**CREA—353. Technology Practicum 1 - 3 credits**

This course awards academic credit to eligible students for the laboratory exploration of theatrical process as technicians in the production program. The number of credits awarded will be determined in advance by the Program faculty on the basis of workload and the degree of difficulty of the assignment. A satisfactory written report, practicum journal, and participation in the production program will determine the final grade. CREA—350-354 may be taken more than once to a maximum of six credits, but may not exceed three credits in any one semester. A field trip to a professional production is required. Lab Fee. Prerequisites: Permission of program director.

**CREA—354. Stage Management Practicum 1 - 3 credits**

This course awards academic credit to eligible students for the laboratory exploration of theatrical process as stage managers in the production program. The number of credits awarded will be determined in advance by the Program faculty on the basis of workload and the degree of difficulty of the assignment. A satisfactory written report, practicum journal, and participation in the production program will determine the final grade. CREA—350-354 may be taken more than once to a maximum of six credits, but may not exceed three credits in any one semester. Lab Fee. Prerequisites: Permission of program director.

**CREA—362. Medieval Art 3 credits**

This course offers an overview of the art of Europe from the beginnings of Christianity to the Renaissance, a span of over thirteen centuries of dynamic cultural change. In the predominantly illiterate Medieval cultures, visual art was used to establish and communicate the evolving religious and political values. Students will study the works of art and architecture for which the Middle Ages is justly renowned: illuminated manuscripts, sculpture, and architecture. Prerequisites: CREA—150 and RELG—101 or RELG—141; or permission of the instructor. (ATTR: ARTS, HGC)

**CREA—397. Advanced Topics in Creative Arts II 3 credits**

Selected areas of advanced study in visual art history, studio art, music, or theatre. Sample topics include those mentioned for CREA—297. May

be taken more than once with different content. As with CREA—297 a field trip may be required. Lab fee. Consult the fall and spring schedules for specific content and length of class sessions.

**CREA—400. Directing (2 hours lecture, 2 hours lab)  
3 credits**

An introductory exploration of both the theory and practice of directing for the stage. Students will direct contentless scenes, short plays and/or contextual scenes from full length works, collaborating with students in CREA—140 (Acting I) as an integral part of the course. This course is designed for students with an intermediate to advanced level of theatre experience and training. A field trip to a professional production is required. Prerequisite: CREA—140 and permission of the instructor. Lab Fee.

**\*\*\*CREA—420. Painting II 3 credits**

An intermediate course in the problems of composition, value structure, color mixing, and various painting techniques with oils or other media. Students use drawing and painting in the study of nature, still life, and the figure. A continuation of CREA—320, which is a prerequisite, or permission of the instructor. Studio fee.

**CREA—480. Internship in Theatre 3 credits**

The internship provides students with practical experience in a professional theatre environment. Internships may be taken in acting, directing, design, technical theatre, or stage management. Prerequisite: Permission of the program director.

**CREA—497. Independent Study in Creative Arts 1 - 3 credits**

Qualified students may pursue a topic of their choosing that must be submitted in writing and approved by the professor and the department.



*\*\*\* Offered when there is sufficient student interest*

## Theatre Program

Br. Gary Maciag, O.F.M., *Director*

The Theatre Program, a certificate program in the Department of Creative Arts, offers students the opportunity to pursue a formal non-major curriculum in theatre studies.

This program aims to familiarize students with the theory, history and aesthetics of the theatrical event; strives to develop an appreciation of theatre as a complex artistic expression of humanity's struggle to understand itself; and works to develop first-hand experience with those essential skills necessary to create theatre: acting, directing, design and technology. The program encourages each student to exercise aesthetic judgment; think critically; work collaboratively; synthesize and apply principles in the process of theatrical production; engage in creative expression; develop personal discipline and constructive work habits; and foster respect for one's self, colleagues, audience and community.

The Theatre Program is committed to mounting productions which focus on issues of cultural diversity and the responsibility of individuals to cooperate in the creation of a just and peaceful society.

Students earning a certificate in the Theatre Program may choose to pursue careers as drama directors and educators in the secondary school system, as theatre practitioners, or might choose to deepen their understanding and appreciation of the art form through graduate study. Knowledge and skills gained through the program are applicable to a variety of careers outside theatre.

*Certificate Requirements:* Students interested in the certificate program must meet with the Program Director as early in their course of studies as possible. 21 course credits are required: Introduction to Theatre, Acting I, Directing, one survey of dramatic literature course, one course in theatre history, one course in theatre design or technology, one course as a theatre elective. A combination of 3 practicum credits are required from a minimum of two courses in Acting (CREA—350) or Directing (CREA—351) or Design (CREA—352) or Technology (CREA—353) or Management (CREA—354). A minimum of 12 credits must be completed at Siena College. Open to matriculated students only.

*Academic Standards:* The study of theatre, by its very nature, demands the student's commitment of time and energy for laboratory courses and production preparation. Consequently, admittance to and continuation in the program will be subject to minimum academic standards. In order to be enrolled as a candidate for the certificate, a student must have no less than 2.0 cumulative index and have earned at least a C- grade in every major field concentration course used to satisfy the major field requirement. Once enrolled, the student must maintain this academic standing

and earn at least a C- grade in every course required for the Theatre Program certificate. Students interested in completing a theatre internship (CREA—480) must have earned at least a B grade in all courses required for the certificate and maintained all other academic standards.

### Required Courses

*Refer to departmental listings for course descriptions.*

CREA—104 Introduction to Theatre 3 credits

CREA—140 Acting I 3 credits

CREA—400 Directing 3 credits

One survey of dramatic literature course approved by  
the Program Director 3 credits

One course in theatre history from among: 3 credits

CREA—170 Theatre to the Restoration

CREA—171 Theatre from the Restoration

CREA—240 American Theatre

One course in theatre design/technology from among: 3 credits

CREA—145 Introduction to Theatre Technology

CREA—245 Scenery Design

CREA—247 Lighting and Sound Design

CREA—250 Costume and Makeup Design

One course as a theatre elective from among: 3 credits

Any theatre course not applied to theatre history or design/technology  
credit requirements OR

CREA—125 Basics of Singing

CREA—205 Opera I

CREA—235 American Musical Theatre

CREA—297 Special Topics in Creative Arts (select topics)

CREA—330 Acting II

CREA—340 Opera II

CREA—397 Advanced Topics in Creative Arts

CREA—480 Internship in Theatre

ENGL—240 Shakespeare

ENGL—285 Topics in English  
(on dramatist or dramatic movement)

ENGL—090, 290, English Honors  
390, or 490 (on dramatist or dramatic movement)

A combination of a minimum of two practicum courses from among: 3 credits

CREA—350 Acting Practicum

CREA—351 Directing Practicum

CREA—352 Design Practicum

CREA—353 Technology Practicum

CREA—354 Management Practicum

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24 credits

### Internship

Students enrolled in the Theatre Certificate Program have the option of choosing an internship with a professional theatre organization (CREA—480 Internship in Theatre) provided advance approval from the major advisor and the Program Director is received. To be considered for an internship, the student must satisfy the academic standards for the certificate program and must have achieved at least a B grade in all courses required for the Theatre Program certificate.

All theatre internships must be in one of the following areas: acting, directing, scenery, costume, lighting, sound or stage management. Sales or box office positions would not qualify. Internship participation would occur during the student's senior year and would be administered by the Program Director.

### Education Department

*Head:* Dr. Richard T. Ognibene, *Prof.*

*Prof.:* Dr. Cheryl J. Gowie

*Assoc. Prof.:* Dr. Ralph H. Ware‡

*Asst. Prof.:* Dr. Robert Colesante, Dr. Kenneth P. Paulli, O.F.M.

The purpose of the Department of Education is to provide sound professional preparation for secondary school teachers of academic subjects. The tradition of Siena College requires broad training in the liberal arts as well as a concentration in a major field of study. The Department's goal is to enable educators to acquire the professional knowledge base and competencies characteristic of effective teaching. Through our goal of preparing teachers well-grounded in the professional knowledge base and the Franciscan liberal arts tradition, the mission of the Department of Education reflects the mission of the College. Within this framework, students develop the skills of critical thinking and expression as well as empathy and concern for all individuals.

As part of their course work, students will complete one hundred hours of field experience prior to the student teaching experience. For students in the certification sequence, these experiences are in varied secondary school settings. The experiences follow the guidelines outlined in the Field Experience Program Handbook provided to every participating student, classroom teacher, and principal. Students are responsible for their own transportation.

The Department offers programs leading to New York State Initial Teacher Certification in Adolescence Education (grades 7-12) in the following areas: Biology, Chemistry, English, French, Mathematics, Physics, Social Studies, and Spanish. The Department also offers a program leading to New York State Initial Teacher Certification in Business and Marketing (all grades).

‡ *Sabbatical leave, Spring 2003*

Students who successfully complete EDUC—360 (Adolescence and Schooling) and EDUC—385 (Teaching and Learning in the Middle School), and who have completed an approved program for an initial certificate in adolescence education grades 7-12, are eligible for an extension of their teaching certificate into grades 5-6. This extension is not offered for students in programs leading to New York State initial teacher certification in Business and Marketing (all grades).

In addition, the department offers elective courses that will allow education students the opportunity to expand their knowledge and understanding of the field. For the non-certification student whose career goals are education-related, the department provides the opportunity to develop a sequence of courses that will serve as a foundation for graduate work in fields such as elementary education, school psychology, guidance and counseling, school social work, reading, or special education.

New York State requires that all prospective teachers study a language other than English at the college level for one year or its equivalent. The Department has guidelines for CLEP-exam “equivalence.”

**The following requirements must be met before acceptance into the Teacher Certification Program Professional Sequence is complete:**

**Siena Undergraduates: [minimum GPA must be 2.75 overall]**

1. declaration of intent/contract to the Department of Education;
2. successful completion of EDUC—210, EDUC—260, and EDUC—261 (minimum GPA of 3.0 in Education courses);
3. endorsement by the academic department;
4. submission of acceptable writing samples;
5. evidence of superior communication skills;
6. demonstrated success in field placements;
7. approval by the Siena College Department of Education;
8. review and approval by the Education Professions Committee (EPC).

**Returning Students: [minimum GPA must be 2.75 overall]**

1. endorsement by the academic department after review of all transcripts;
2. declaration of intent/contract to the Department of Education;
3. successful completion of EDUC—210, EDUC—260, and EDUC—261 (minimum GPA of 3.0 in Education courses);
4. submission of acceptable writing samples;
5. evidence of superior communication skills;
6. demonstrated success in field placements;
7. 2-3 letters of recommendation from former professors and/or employers;
8. approval by the Siena College Department of Education;
9. review, interview and approval by the Education Professions Committee (EPC).

All written materials must be submitted to Mr. W. VanDerwerker, Director of Clinical Experiences, prior to October 1 for the following fall semester clinical experience or before February 1 for the following spring semester clinical experience.

Students who withdraw from the certification program or who postpone their professional semester without informing the education department in writing will be required to reapply.

Students who complete the program requirements and receive a score acceptable to the Commissioner of Education on the required **New York State Teacher Certification Examinations** will be eligible to apply for the New York State Initial Certificate in their field. Verified data for Siena College program completers for the 2000-2001 school year for the two required New York State Teacher Examinations are as follows: Liberal Arts and Sciences Test (LAST) - pass rate = 100% and for the Assessment of Teaching Skills - Written (ATS-W) - pass rate = 100%.

Although they will be advised through the appropriate department concerning requirements in their major, students in education programs should consult with the Education Department faculty early concerning program and certification policies. Students who are not following the certification program, but who are interested in using education for related career opportunities, may seek advisement from the Education Department staff as well.

Relevant statistics about the labor market and job availability for each certificate title for which a teacher education program is offered, including the source of the statistics and the period of time and geographic area to which the statistics refer, may be found at the Siena College Education Department website (<http://www.siena.edu/education>), which also contains links to relevant supply and demand data supplied by the New York State Education Department.

**The Certification Sequence:** Students seeking certification, in addition to meeting College and major requirements, are required by the Department to complete the *Education Core* (EDUC—210, EDUC—260, and EDUC-261) and the *Professional Sequence* (EDUC—461, EDUC—485, EDUC—487, EDUC—488, EDUC—495, and EDUC—496). Generally, work in the education core is completed during the sophomore and junior years. The Professional Sequence may begin in the second semester of a student's junior year because EDUC—481 Instructional Theory and Practice must be completed in the semester immediately prior to the student's Professional Semester (EDUC—461 Literacy in Middle and High Schools, EDUC—485 Social Construction of Education, EDUC—487 Clinical Experience in the Middle School and EDUC—488 Clinical Experience in the High School, EDUC—495 Drug, Alcohol, and Tobacco Workshop and EDUC—496 Child Abuse, Maltreatment and Neglect Workshop). During the Professional Semester, the student will be required

to participate in classes and seminars on a weekly basis in addition to student teaching.

Students who intend to seek certification should inform the Education Department during their **Education core courses**. However, before students are admitted to the Professional Sequence they must meet the requirements listed above. The student will present a dossier to the Department and will be reviewed by the Education Professions Committee.

Students need to plan their programs so that they may follow the requirements of the Professional Sequence and Professional Semester (which is a full semester devoted to Clinical Experiences). Students planning to study abroad are urged to consult early with faculty in the Education Department about their schedules. The international experience may not interrupt the professional sequence. Transfer students interested in the certification program should also contact the Department prior to planning their coursework at Siena.

**Initial Teacher Certification for those already holding the bachelor's degree.** On a limited basis the Department offers the opportunity to attain an *Initial Teaching Certificate in Adolescence Education (grades 7-12)* or an *Initial Teaching Certificate in Business and Marketing (all grades)* to individuals who already possess a bachelor's degree. The program consists of a minimum of 27 credit hours, not including the State foreign language requirement. To be admitted the individual must follow the procedures for **Returning Students** outlined above. Further information is available in the Education Department. *A minimum overall GPA of 2.75 is required.* Individual programs will vary according to the prior educational experiences of the student; however, any program devised will **always** contain the requirement for completion of the entire Professional Sequence through Siena's Education Department.

**Education Electives:** In addition to meeting the minimum requirements for certification, the Department encourages its students to elect other Education courses that will broaden the base of the student's professional knowledge and increase his/her ability to deal with the complex problems being met by classroom teachers of today. These electives are also open to non-Education Teacher Certificate students who desire to consider educational questions in a formal manner.

**Siena/Sage Agreement:** An agreement between Siena College and Sage Graduate School affords Siena graduates who have completed our secondary certification program automatic acceptance to a masters degree program in Elementary Education, Health Education, Guidance and Counseling, Reading, Special Education, and Reading/Special Education. Siena students who do not enter our secondary certification program can still receive automatic acceptance in the programs listed by completing an acceptable series of courses at Siena with a recommendation from Siena Education depart-

ment faculty. Other advantages include waiver of the application fee, graduate advisement in spring of the senior year and automatic acceptance into the one-year, paid internship program and the opportunity to apply early for graduate assistantships in Sage Graduate Schools.

### Description of Courses

*With the exception of courses in the professional sequence,  
Education courses are open to all students.*

#### **EDUC—210. Issues in Contemporary American Education 3 credits**

This introductory course orients the student to the professional field of education and schooling in the United States. Issues researched and discussed include but are not limited to the following: history and philosophy of education; purpose and role of public education; rights and responsibilities of all educational stakeholders; governance at the local, state, and federal level; and interactions among the school, home, and community that support and enhance student learning. In particular, this course will explore the issue of educational access, emphasizing student diversity within the full range of disabilities and special needs. A twenty-hour field experience is required; for students pursuing Siena's certification sequence, the field experience must be at the secondary level (grades 7-12).

#### **\*\*\*EDUC—220. Democracy and Pluralism in American Education 3 credits**

This course will analyze developments in American education from the colonial period to the present. Since educational theories and systems create and are created by the social, intellectual, economic, and political milieu, educational developments will be viewed in the light of important trends in American society. Attention will be given to fundamental ideological questions including the relationship of power and participation to education and instruction in a democratic society.

#### **\*\*\*EDUC—225. Historical and Sociological Foundations of Western Education 3 credits**

This course provides the student with an historical perspective as an aid to understanding contemporary education. It will deal with major educational ideas beginning with ancient Greece and continuing to modern times. It seeks to show the close relationship between education and political, social, and economic forces as well as to develop the impact of science on education.

#### **\*\*\*EDUC—230. Philosophy of Education 3 credits**

In this course, each student will be required to read a variety of texts representing contrasting educational philosophies. The purpose of the course is to promote awareness of the existence of numerous philosophies

*\*\*\* Offered when there is sufficient student interest*

of education, to demonstrate the practical educational implications derived from each theory, and to assist each student in the formulation of an educational philosophy suitable to the needs of his/her professional and/or personal life.

### **EDUC—260. Educational Psychology 3 credits**

This course is intended to help the prospective teacher interact effectively in the social-learning environment that is established between student and teacher and among students in group and in individualized settings. The focus is theoretical as well as applied. Emphasis is on establishing a foundation for making sound and informed educational decisions based on the body of knowledge that pertains to teaching and learning within the framework of human development. Differences between the middle school and high school populations will be explored. As an outcome of the course, the prospective teacher should be able to apply knowledge of the learner, the learning process, and the learning setting to create an environment that offers a diverse student population the greatest opportunity to learn. A twenty-hour field experience is required; for students pursuing Siena's certification sequence, the field experience must be at the secondary level (grades 7-12). Prerequisite: EDUC—210 or permission of the Head of the Department of Education.

### **EDUC—261. Foundations of Language and Literacy 3 credits**

The acquisition and development of language is examined as the foundation of literacy. Three populations are studied: native English speakers with intact abilities and with impairments; speakers whose dominant language is not English; and speakers of variants of English. Children and early adolescents are viewed as applying cognitive strategies actively in processing spoken language and in deriving meaning from print. Topics include environmental influences on language and literacy, discourse theory, pragmatics, participation structure, literacy at home and in school, use of writing and of literature to enhance learning, and the impact of technology on literacy. A twenty-hour field experience is required; for those pursuing Siena's certification sequence, the field experience must be at the secondary level (grades 7-12) in a "high need" school. Prerequisite: Educational Psychology (EDUC—260); or General Psychology (PSYC—100); or permission of the instructor. (ATTR: ARTS)

### **EDUC—310. Topics in Education 1 - 3 credits**

This course provides the opportunity to explore changing trends and challenges in America's schools, to address current issues affecting education, educational issues on the national agenda, state and national initiatives, and/or important developments in areas such as curriculum, instruction, urban education, assessment, or technology. The topic is one not normally investigated in depth in existing courses. This course may be taken more than once with different content. Offered as needed. 1 to 3 credits, depending on the topic.

**\*\*\*EDUC—350. An Introduction to Educational Research 3 credits**

The purpose of this course is to explore the area of Educational Research. Emphasis will be placed upon the attitude as well as the function of research including the principles, methods, and strategies useful in planning, designing, and evaluating studies of Education. Students will plan, design, and prepare a proposal that incorporates principles of research. The proposal will, when the opportunity permits, be translated into an empirical study. Prerequisite: EDUC—240.

**EDUC—360. Adolescence and Schooling 3 credits**

Students will review narrative accounts of the school experiences of adolescents from diverse backgrounds. Their first task will be to consider how narrative, empirical, and theoretical knowledge provide different perspectives on understanding the school lives of adolescents. Then, they will examine how cultural canons about adolescence influence the many ways that young people live out their lives in school. They will review and interpret narrative accounts of schooling through fiction, autobiography, movies and self-reflection about adolescence. Students will not be “given the answers” or told what to think about adolescence and schooling. Rather, readings and class presentations will provide them with information and theoretical points of view which sometimes conflict. Ultimately, they will be asked to examine these multiple perspectives to create their own way of viewing adolescents in school settings. A twenty-hour field experience at the middle school or junior high school level is required. Prerequisite: EDUC—260 (Educational Psychology); or permission of the instructor.

**EDUC—365. Exceptional and At-risk Learners 3 credits**

This course is intended to serve as an introduction to the study of exceptional children. Students in the course will become familiar with the broad range of exceptionalities from giftedness to retardation. While the main focus will be education of the exceptional person, emphasis will also be placed upon social and legal considerations. The course is recommended for those who are interested in regular classroom teaching as well as special education and school psychology or social work. Prerequisite: EDUC—260, or permission of the instructor.

**EDUC—385. Teaching and Learning in the Middle School  
3 credits**

The major focus of this course will be on the nature, needs, and characteristics of the adolescent learner, as well as the philosophy, curriculum, and pedagogy (including methods and materials) appropriate for middle-level education in New York State. This course will address diverse instructional strategies, including interdisciplinary teaching, teaming, and cooperative learning. Successful middle-level educational programs, which focus on and promote both the intellectual and personal development of the early adolescent will be examined. A twenty-hour field experience is required at the middle school or junior high school level. Prerequisite: EDUC—260 or permission of instructor.

*\*\*\* Offered when there is sufficient student interest*

**EDUC—461. Literacy in Middle and High Schools 3 credits**

This course is designed to address current issues and practices in literacy development in the content areas at the middle and high school levels. Emphasis is on the responsibility of teachers of all subjects to create a literate environment in their classroom and to develop the literacy skills of students of all ability levels as well as of students who are English language learners. Specific instructional strategies will be explored that enable teachers to engage learners actively with course content, to enhance critical thinking skills and expression of ideas, to promote metacognitive skills and study skills, and to develop critical skills in evaluating sources of information. The utilization of technology and assistive technology to further learning will be stressed. A twenty-hour field experience at the student teaching site is required prior to each student teaching experience. Prerequisite: Admission to the Professional Semester.

**EDUC—481. Instructional Theory & Practice in Inclusive Classrooms 3 credits**

This course, which considers the theory and practice of effective instructional practices in diverse classrooms, will focus on the components of instruction and will be practice-oriented and performance-based. Emphasis will be given to the understanding and application of the *New York State Student Learning Standards* in inclusive subject area classrooms. Such topics as unit planning and lesson planning, motivation, inclusion, diversity, teacher expectations, questioning skills, feedback strategies, methodology, technologies, and evaluation and assessment will be studied. The prospective teacher will develop and practice behaviors and strategies characteristic of effective teaching. Attention will be given to ways to place middle and high school students in more active roles as learners. Students pursuing Siena's teacher certification program will be required to successfully complete a twenty-hour field experience in an inclusive classroom at the secondary level (grades 7-12).

This course is available for all areas of certification. It is open to students seeking certification in French or Spanish in the fall semester only; in Business Marketing in the fall semester only; in Biology, Chemistry, and Physics in the fall semester only; and in Mathematics in the spring semester only.

Prerequisites: EDUC—210, EDUC—260, EDUC—261 and admission to the Professional Sequence. (ATTR: ARTS)

**EDUC—485. The Social Construction of Education 2 credits**

This course, which accompanies student teaching, is designed to present prospective teachers with theories, models, principles, and current practices in four areas: understanding and managing the culture of the school and the culture of the classroom, promoting positive classroom interactions, understanding home/school/community relationships, and understanding attitudes and skills teachers need to enable students to func-

tion responsibly, effectively, and productively in a pluralistic and democratic society. In reviewing current practices, students will be exposed to various theories, models, and principles which guide professional decision-making in the age of interactive technology. This course also includes information for prospective teachers on safety education (including fire safety and arson prevention) and a two-clock hour module in violence prevention. Prerequisites: EDUC—481 and admission to the Professional Sequence. (ATTR: ARTS)

**EDUC—487. Clinical Experience in the Middle School  
5 credits**

This course will give the prospective teacher sustained experience in the middle school classroom. In addition to teaching, the student is expected to assume other professional responsibilities that are assigned to him/her by the cooperating teacher and/or principal. It is expected that student teachers will gradually add teaching responsibilities and will assume a full teaching load for at least one week. The student will return to the College for scheduled classes or seminars with the College staff. Co-requisite: EDUC—485. Prerequisites: EDUC—481, permission of the Education Department Head (contingent upon maintaining performance standards and the required GPA), and approval by the Education Professions Committee. Note: All students will be personally responsible for transportation arrangements. (ATTR: ARTS)

**EDUC—488. Clinical Experience in the High School 5 credits**

This course will give the prospective teacher sustained experience in the high school classroom. In addition to teaching, the student is expected to assume other professional responsibilities that are assigned to him/her by the cooperating teacher and/or principal. It is expected that student teachers will gradually add teaching responsibilities and will assume a full teaching load for at least one week. The student will return to the College for scheduled classes or seminars with the College staff. Co-requisite: EDUC—485. Prerequisites: EDUC—481, permission of the Education Department Head, (contingent upon maintaining performance standards and the required GPA), and approval by the Education Professions Committee. Note: All students will be personally responsible for transportation arrangements. (ATTR: ARTS)

**EDUC—495. Drug, Alcohol, & Tobacco Workshop 0 credits**

This 15-hour workshop is designed to provide the student with knowledge of: physical and psychological addiction to controlled substances; chemical dependency; drugs of abuse; legal issues for teachers; behavioral indicators of substance abuse; goals of a schoolwide substance abuse prevention program; goals of a schoolwide intervention program; curriculum materials on decision-making, coping strategies, and self-esteem; issues of adolescence; and the continuum of services. Prerequisite: Enrollment in the Professional Semester. Fee required. (ATTR: ARTS)

**EDUC—496. Child Abuse, Maltreatment, and Neglect Workshop  
0 credits**

This two-hour workshop is designed to provide the student with knowledge of: the definition of abuse, maltreatment, and neglect according to NYS Family Court Act and Social Services Law; situations requiring reporting of suspected cases of child abuse maltreatment; a description of what constitutes reasonable cause to suspect child abuse or maltreatment; proper procedure for making a report of suspected child abuse; actions mandated reporters may take to protect a child in addition to filing a child abuse report; legal responsibilities in reporting that teachers have as care providers; legal protections afforded reporters and consequences for failing to report; distinctions among various behavioral and physical characteristics of abusive parents and caretakers; physical and behavioral indicators of physical abuse, maltreatment, and neglect; contrast between physical and behavioral indicators of sexual abuse; child abduction; and general principles for interviewing or interacting with child victims. Prerequisite: Enrollment in the Professional Semester. Fee required. (ATTR: ARTS)

**\*\*\*EDUC—499. Independent Study in Education 1 - 3 credits**

A qualified student may pursue a particular topic in Education by means of independent research, periodic discussion with the department member concerned, and the development of a satisfactory written report. Approval for independent study must be obtained from the Department Head, and the student will be expected to comply with all College guidelines concerning such projects.

**English Department**

*Head:* Dr. Margaret P. Hannay, *Prof.*

*Prof.:* Dr. Thomas F. Bulger<sup>^</sup>, Dr. Pamela Clements, Dr. J. Gerard Dollar<sup>^</sup>, Dr. Mary K. Fitzgerald-Hoyt, Dr. Elaine R. Ognibene, Dr. Charles R. Trainor, Dr. Margaret Woolbright

*Assoc. Prof.:* Fr. Sennen San Fratello, O.F.M., Dr. Naton Leslie, Dr. Rachel Stein

*Asst. Prof.:* Dr. Michael W. Murphy

*Instructor:* Ms. Christiane E. Farnan

As its principal mission the English Department seeks to foster an understanding of and appreciation for literature. To realize this mission, the department is committed to: teaching literature that represents the cultural diversity of our society; encouraging students to think critically and to express themselves clearly; extending our students' critical vocabulary and familiarity with literary history; and helping students integrate their Franciscan liberal arts education, by making them aware of the many links between literature and other fields.

\*\*\* Offered when there is sufficient student interest

<sup>^</sup> Sabbatical leave, 2002-2003

In its major the department seeks to provide not only a strong background in American and English literary history but also a variety of approaches to literature — thematic, structural, generic, and gender-related. Courses in advanced writing, oral communication, creative writing, and journalistic writing aim at developing thoughtful and creative self-expression. A program in English education prepares students for careers in teaching. A professional internship program provides students with practical experience in print and broadcast journalism, public relations, and other career possibilities. A series of honors seminars challenges our best students to explore — at an in-depth and scholarly level — particular writers or themes.

A final mission of the English Department is to enhance the cultural and intellectual climate of Siena College — through, among other things, encouraging scholarly research and publication by the English faculty, sponsoring a visiting artist series, advising a student literary club and journal, and supporting interdisciplinary programs.

*English Honors Program:* A program of seminars for outstanding students. Entering students are invited to join the Great Books seminar on the basis of their high school record and SAT scores. Upper division Honors Seminars are open to qualified students in any major with permission of the instructor. Students in any major who complete a minimum of four Honors seminars with an average of B+ or better, and maintain a cumulative index of at least 3.3, are eligible for a Certificate of Honors in English upon graduation.

*Requirements for the Major:* 39 hours in English, including:

- ENGL—011 Literary Perspectives OR ENGL—090  
Great Books Seminar
- ENGL—200 Survey of English Literature I
- ENGL—205 Survey of English Literature II
- ENGL—206 Survey of American Literature I
- ENGL—207 Survey of American Literature II

*ONE period course in British or Irish Literature from:*

- ENGL—240 Shakespeare
- ENGL—300 Chaucer
- ENGL—305 Elizabethan Literature
- ENGL—310 Early Modern Literature
- ENGL—315 Literature of the Enlightenment
- ENGL—320 Romantic Literature
- ENGL—325 Victorian Literature
- ENGL—330 Modern British Writers
- ENGL—332 Modern British Poets
- ENGL—335 The Irish Renaissance
- ENGL—340 Contemporary Irish Literature

*ONE upper-level course in American Literature from:*

- ENGL—345 Early American Literature (1500-1820)
- ENGL—350 American Renaissance Literature (1820-1865)
- ENGL—355 Realistic Movements in American Literature
- ENGL—360 American Literature of the Jazz Age
- ENGL—365 Literature of the Cold War
- ENGL—368 Literature of the War in Vietnam
- ENGL—370 African American Literature

*ONE special topics course from:*

- ENGL—210 Women in Literature
- ENGL—215 Sexuality in Literature
- ENGL—220 Literature and the Environment
- ENGL—225 Comedy
- ENGL—235 Science Fiction
- ENGL—236 Adolescent Literature
- ENGL—285 Topics in English

ENGLISH/EDUCATION CERTIFICATE: English majors seeking provisional teaching certification (grades 7-12) must apply to the English Department for admission to the English education program. To be accepted into the program, students will be required to demonstrate strong communication skills. Students will be required to have an index of at least 3.15 in the major; normally students will also need to have an overall G.P.A. of at least 3.0.

Students in English/Education should plan their program jointly with their advisor and the Education Department. (See “The Certification Sequence” in the Education Department listing.)

Students pursuing the English/Education certificate are required to fulfill all of the above requirements. In addition, these students are required to take:

- ENGL—240 Shakespeare (will count for British/Irish period course requirement)
- ENGL—236 Adolescent Literature (will count for Special Topics course requirement)
- WRIT—220 Oral Communication
- WRIT—230 History of the English Language

English majors must also fulfill a six hour requirement in a modern or classical language. Transfer students majoring in English may apply to the Department Head to have the core requirement waived. No WRIT courses count toward the major but WRIT courses are auxiliary courses for the English/Education certificate.

In addition to these requirements, we strongly recommend that students planning to go to graduate school and those in the English/Education certificate take ENGL—400 Literary Criticism. We also recommend that students take ENGL—200, ENGL—205, ENGL—206, and ENGL—207 before the end of their sophomore year, if possible.

*Requirement for the Minor in English:* 18 hours in English (excluding ENGL—011 and ENGL—090). To satisfy the minor, students should take at least one genre course (ENGL—250-259) and one literary period course (ENGL—240, ENGL—300 through 370). The remaining twelve credit hours in English may be selected from any ENGL course, except ENGL—011 or 090.

*Requirement for the Minor in Writing and Communication:* any 6 courses (18 credits) designated as WRIT.

### Description of Courses

*The English core requirement is satisfied with ENGL—011, ENGL—090, or transfer credit for literature courses. ENGL—011 (or ENGL—090) is a prerequisite for all of the ENGL courses. Transfer students may be allowed to satisfy the core requirement with Siena upper level literature courses. See English Honors Program section for additional listings.*

#### **ENGL—011. Literary Perspectives 3 credits**

This course will give students expertise in reading, responding to, and analyzing a wide variety of literature. Since it is a writing-intensive course, students will gain experience in writing and revising essays about literature. Readings will be drawn from the three main literary genres – stories, poetry, and drama – as well as from a variety of classic and contemporary authors. (ATTR: ARTS, CDE)

#### **ENGL—051. Greek Literature in Translation 3 credits**

See CLSS—220 for course description. (ATTR: ARTS, CAL, ELIT, ENUL)

#### **ENGL—055. Latin Literature in Translation 3 credits**

See CLSS—225 for course description. (ATTR: ARTS, CAL, ELIT, ENUL)

#### **ENGL—200. Survey of English Literature I 3 credits**

An introduction to English literature from Beowulf to Swift, presented chronologically, tracing the development of literary genres, such as the epic, the sonnet, and prose fiction. (ATTR: ARTS, CAL, ELIT, ENUL)

#### **ENGL—205. Survey of English Literature II 3 credits**

An introduction to English language prose and poetry of the Romantic, Victorian, and modern periods. Prerequisite: ENGL—200. ENGL—200 and ENGL—205 may not be taken simultaneously. (ATTR: ARTS, ELIT, ENUL)

**ENGL—206. Survey of American Literature I 3 credits**

This course is an historical survey of American literature from the colonial period to 1900. Beginning with Native American stories and myths, the course goes on to consider significant literary figures from colonial America and a broad range of 19th century writers. Authors studied may include Bradstreet, Edwards, Wheatley, Irving, Poe, Emerson, Hawthorne, Melville, Douglass, Jacobs, Whitman, Dickinson, Twain, Crane and Chopin. (ATTR: AMSC, ARTS)

**ENGL—207. Survey of American Literature II 3 credits**

This course is an historical survey of American literature of the Twentieth century, which includes a broad range of significant writers in poetry, prose and drama. Writers will be analyzed within an historical and cultural context. The following writers may be studied: Robinson, Cather, Frost, O'Neill, Eliot, Fitzgerald, Hemingway, Faulkner, Hughes, Hurston, Miller, W.C. Williams, O'Connor, Oates, Hansberry. (ATTR: AMSC, ARTS)

**ENGL—210. Women in Literature 3 credits**

A study of the various roles played by women in Western literature from classical times to the modern. Emphasis is placed on the evolving image of women and on women as creators of literature. (CORE: AL) (Same as WSTU—210) (ATTR: ARTS, CAL, ENUL, LTTP, WSTU)

**ENGL—215. Sexuality in Literature 3 credits**

This course examines the treatment of sexuality in significant British and American literature. Readings include fiction, drama, and poetry that centers upon issues of sexuality such as censorship and freedom of expression, religion and sexuality, formations of heterosexuality and homosexuality, power and desire, social regulation of sexual expression, sexual violence, and AIDS. Authors may include: D.H. Lawrence, Jean Rhys, Margaret Atwood, Alice Walker, Peter Shaffer, Harvey Fierstein, James Baldwin and others. (Same as WSTU—215) (ATTR: ARTS, CAL, ELIT, ENUL, LTTP, WSTU)

**ENGL—220. Literature and the Environment 3 credits**

This course introduces students to the tradition of nature writing in literature, with an emphasis on American authors. Thoreau's *Walden* is a central text. Particular attention is given to contemporary multicultural voices among environmental writers. The course emphasizes nonfiction prose but includes some poetry and fiction. (Same as ENVA—220)

**ENGL—223. Abbey, Court, Town: Themes in Early English Literature 3 credits**

This course examines a selection of literature written during the medieval and early modern periods, or before about 1800 C.E. Cultural contexts and diverse critical approaches will be emphasized. Reading will be selected from the writings of authors such as Defoe, Kempe, Chaucer, Montague, Shakespeare, Bacon, Rolle, Swift and Aphra Behn. Anonymous works such as *Judith*, saints' lives, *The Second Shepherd's Play* and *Dream of the Rood* may also be selected. (ATTR: ARTS)

**ENGL—225. Comedy 3 credits**

This study of authors whose works illustrate various aspects of the comic spirit may include Aristophanes, Gogol, Waugh, Moliere, and Coward. A number of films are included, and their relationship to the literature discussed.

**ENGL—235. Science Fiction 3 credits**

This course will examine the category of literature usually designated as Science Fiction, SF, or Speculative Fiction. Science Fiction, in all its forms, is essentially a literature of ideas, in which the “facts” of current reality are altered in some way to answer the question “What if?” The course will consider these questions: How is Science Fiction defined? Where does Science Fiction begin? (With Verne and Wells, with Shelley’s *Frankenstein*, or even earlier?) How is the literary category of Fantasy to be distinguished from Science Fiction? How do we evaluate the aesthetics of Science Fiction? Readings will include novels and short stories by authors such as H.G. Wells, Arthur C. Clarke, Isaac Asimov, Ursula LeGuin, Philip K. Dick, Octavia Butler, Samuel Delaney, William Gibson, and others. (ATTR: ARTS, CAL, LTPP, MINR)

**ENGL—236. Adolescent Literature 3 credits**

This course is designed for students pursuing the English/Education certificate. The main goal of the course is to familiarize students with the increasingly popular genre of adolescent literature. This is a writing-intensive and student-centered class. Students are required to do the reading, to keep a reading journal, to write critical response papers and to take responsibility for the day to day workings of the class. A final project, involving the creation of a literature unit appropriate for a middle school classroom, is required.

**ENGL—240. Shakespeare 3 credits**

A study of several major Shakespearean plays. The works will be analyzed against the background of Shakespeare’s life and times.

**ENGL—250. The Drama 3 credits**

A study of representative dramatic types designed to increase appreciation of the drama as literature. Attention is paid to the historical development of the genre. (ATTR: ARTS, CAL, ELIT, ENUL)

**ENGL—253. The Short Story 3 credits**

This course examines the development of the short story as a distinct literary genre. By reading a variety of short fiction—from fairy tale to contemporary writers—students learn the history, the artistry, and the development of the genre. Readings are selected from English, American, European, African, and Asian writers from the early 1800’s to the late 1990’s. (ATTR: ARTS, CAL, ELIT, ENUL)

**ENGL—256. The Novel 3 credits**

A study of selected novels from the eighteenth, nineteenth, and twen-

tieth centuries. Emphasis is placed on the techniques and purposes of the various authors. Attention is paid to the development of the genre. (ATTR: ARTS, ELIT, ENUL)

**ENGL—259. Poetry 3 credits**

An introduction into the nature of poetic experience. Technical and structural factors of poetry will be studied in order to deepen appreciation of the genre. (ATTR: ARTS, ENUL, CAL, ELIT)

**ENGL—285. Topics in English 3 credits**

This course will explore literary topics not normally treated in regular English courses. Specific topics will be announced during the semester previous to that in which the course will be offered. May be taken twice with different topics. An additional fee may be required, depending on the topic offered.

**ENGL—300. Chaucer 3 credits**

An in-depth study of Chaucer's major work, *The Canterbury Tales*, along with selections from his other works. The literature will be discussed in the context of important issues of medieval times: the growing middle class, the position of women, the aftermath of war and plague, religious crisis and reform. All readings will be in Middle English.

**ENGL—305. Elizabethan Literature 3 credits**

Students will explore compelling issues of the era of Queen Elizabeth I through their treatment in diverse literary works: images of the self, the myth of the Golden Age, and the controversy over gender roles. Readings will be selected from writers such as Sir Thomas More, Edmund Spenser, Philip and Mary Sidney, and Queen Elizabeth. (ATTR: ARTS, CAL, ELIT, ENUL, LTIB)

**ENGL—310. Early Modern Literature 3 credits**

Students will explore compelling issues of the era through their treatment in diverse literary works: magic, science, and witchcraft; the New World; the African slave trade; early feminism; and the struggle for religious, political, and social freedom. Readings will be selected from writers such as John Donne, George Herbert, Aemilia Lanyer, John Milton, and Mary Wroth. (ATTR: ARTS, CAL, ELIT, ENUL, LTIB)

**ENGL—315. Literature of the Enlightenment 3 credits**

This survey of the poets and prose writers of the neo-classical movement may include the works of Dryden, Swift, Pope, Johnson, and Boswell, and one or two novelists of the period.

**ENGL—320. Romantic Literature 3 credits**

A study of the Romantic movement in England from Blake and Wordsworth to the Reform Act of 1832. The relation of political and social thought to the literary movement is emphasized.

**ENGL—325. Victorian Literature 3 credits**

This course examines English literature from the 1830s to the turn of the 20th century. Through critical reading and writing assignments, students will explore such themes as Industrialization, the Impact of Empire, Self and Society, Childhood, and the Role of Women. Works by such authors as Tennyson, Elizabeth Barrett Browning and Robert Browning, Dickens, Lewis Carroll, Wilde, and the Brontes will be included.

**ENGL—330. Modern British Writers 3 credits**

A study of the formal and thematic configuration in the novels of Conrad, Lawrence, Joyce, Woolf, and other selected writers from the period from 1910 to 1940.

**ENGL—332. Modern British and American Poets 3 credits**

A study of the critical significance of Yeats, Eliot, and Pound on modern poetry treated in relation to significant British and American poets.

**ENGL—335. The Irish Renaissance 3 credits**

A consideration of the writers responsible for the burgeoning of Irish culture and nationalism in the late 19th and early 20th centuries. Special consideration will be given to the development of the Irish national theater, including the plays of Yeats, Synge, Lady Gregory, and O'Casey. Prose writers may include George Moore and the early Joyce.

**ENGL—340. Contemporary Irish Literature 3 credits**

This course examines recent Irish writing, with consideration of the historical, political, religious, and cultural influences that have shaped that literature. Readings may include works by such authors as Eavan Boland, Brian Friel, Seamus Heaney, and William Trevor.

**ENGL—345. Early American Literature: Encounters, Enlightenment and Election (1500-1820) 3 credits**

Early American Literature examines the origins and developments of the American literary traditions from the period of European expansion through the establishment of the early American Republic. The course begins with the Native American oral traditions as well as the historical accounts of the early Spanish, French and English explorers. Students may read the colonial poetry or prose of Bradford, Bradstreet, Rowlandson or Edwards, the slave narrative of Olaudah Equiano, the poetry of Phillis Wheatley and/or Philip Freneau, and the political writing of Jefferson and Paine.

**ENGL—350. American Renaissance Literature: Solitude and Society (1820-1865) 3 credits**

American Renaissance Literature examines the emergence of the American narrative, the American character, and the development of the Transcendentalist and Romantic literary movements. Close attention will also be paid to abolitionist writing, slave narrative, and the establishment of the American woman writer against the background of the expanding nation. Students may study such authors as Irving, Cooper, Jacobs,

Emerson, Thoreau, Hawthorne, Poe, Fuller, Fern, Stowe, Douglas, Melville, Sedgwick, Whitman, or Kirkland.

**ENGL—355. Realistic Movements in American Literature:**

**Realism, Regionalism, and Naturalism (1865-1915) 3 credits**

This course examines the development of the realistic impulse in America from the close of the Civil War to WW I. Texts will be examined within the context of the American transformation from an agrarian republic to an industrial world power. Students may read authors such as Twain, James, Chopin, Jewett, Freeman, Crane, Wharton, Zitkala Sa, Sui Sin Far, Harper, Dreiser, and Norris.

**ENGL—360. American Literature of the Jazz Age 3 credits**

This study of significant American writers primarily from the 1920's may include Hemingway, Fitzgerald, Frost, Cather, O'Neill, Hurston and Hughes.

**ENGL—365. Literature of the Cold War (1945-1970) 3 credits**

This is a study of representative works in the period following World War II (1945-1970). The literature of the absurd, existentialism and alienation, and of the Beat writers, will be considered. Authors to be studied might include Vonnegut, Pynchon, and Barth in prose, Williams and Miller in drama, and Lowell, Plath, and Ginsberg in poetry.

**ENGL—368. Literature of the War in Vietnam 3 credits**

Literature of the War in Vietnam will examine the American War in Vietnam (1965-1975) through a critical analysis of major literary works written by both American and Vietnamese authors. Careful and close reading of full-length primary texts will be required. A primary emphasis will be placed on reader-response theory in an effort to fully engage students in both the texts and the context for the war. Authors will include: Tim O'Brien, Tobias Wolff, Duong Thu Huong, Ho Anh Thai, Le Minh Hue, Bao Ninh, Robert Olen Butler and John Mulligan. In addition to the reading, students will be required to write response papers, do oral presentations and produce a substantial research project situating the literature within the historical context. (ATTR: AMSC, ARTS, CAL, ELIT, ENUL, LTAM, M CCP)

**ENGL—370. African American Literature 3 credits**

This course is an historical survey of African American literature which introduces students to a broad range of significant writers in the genres of poetry, prose, autobiography, fiction and drama. (ATTR: ARTS, CAL, ELIT, ENUL, LTAM, MULT, LTIB)

**ENGL—372. Native American Literature 3 credits**

This course surveys Native American creation myths, oral history, poetry and prose by such authors as Black Elk, N. Scott Momaday, Louise Erdrich, James Welch, Leslie Marmon Silko, Sherman Alexie and Linda Hogan. Students will study the literature within its cultural and historical context. The course may include films, guest lectures and a field trip.

**ENGL—400. Literary Criticism 3 credits**

A survey of literary theory from Plato to New Historicism, applying each major theory to literary texts. Emphasis on techniques for writing the sophisticated literary paper. Prerequisite: 12 hours of English literature.

**ENGL—480. Internship in English 1 - 3 credits**

This course enables students to earn academic credit while gaining work experience in broadcast and print media, public relations, and other communications fields. Interns must complete 120 hours of on-site work as well as fulfilling the academic components of the course, including regular written assignments. Evaluation will be conducted by the Department Internship Director in consultation with the worksite supervisor.

The internship is open to Junior and Senior English majors and minors or Writing minors who have completed at least 12 hours in English and/or Writing and have an index of at least 3.0 in those courses. Permission of the Internship Director is required for admission to the course. (Same as WRIT—480.)

**ENGL—499. Independent Study 3 credits**

Students may pursue a topic of their choosing. The topic, including bibliography, must be submitted in writing and approved by the professor and the department. (ATTR: ARTS, ENUL)

**ENGL—790. Washington Semester Journalism Seminar I  
4 credits**

The Washington Journalism Semester provides a seminar which offers an intensive scrutiny of the gathering and presentation of news. Reporters, news executives, news sources, and others share their ideas and experiences. Students study the workings of large and small newspapers and broadcast news bureaus. Meetings are generally four to six times per week and may be held at field sites as well as on campus. (See: ATDV—789)

**ENGL—791. Washington Semester Journalism Seminar II  
4 credits**

This is a correlated course to the work being carried on in ENGL—790. (See: ATDV—789)

**English Honors Program**

*Permission of the instructor is required prior to enrolling in any Honors Seminar. The topics vary from year to year, which allows the student to repeat Honors courses with different subject matter.*

**ENGL—090. Great Books Seminar 3 credits**

This is an intensive reading program of literary masterpieces. The course will include works by such authors as Homer, Chaucer, Shakespeare, Hawthorne, and Hurston. ENGL—090 satisfies the English core requirement. Permission of instructor required. (ATTR: ARTS, CDE, ELIT, ENUL)

**WRIT—100. Introduction to Writing 3 credits**

The purpose of this course is to teach students what writing is and to assist them in writing clear, coherent prose. The approach is process oriented, emphasizing multiple drafts, peer critique and revision. A research paper is required in this course. (ATTR: ARTS, WRIT)

**WRIT—200. Advanced Writing 3 credits**

The purpose of this course is to teach students to develop and refine a sophisticated writing style. The approach is process-oriented, emphasizing multiple drafts, peer critique and revision. (ATTR: ARTS, WRIT)

**WRIT—220. Oral Communication 3 credits**

Introducing students to basic theories and concepts about communication, this course explores how verbal and nonverbal communication operates in public and private settings in relationship to gender, culture and class. Students develop skills in active listening, public speaking, interviewing, oral interpretation, providing feedback, and conflict resolution. (ATTR: ARTS, WRIT)

**WRIT—230. History of the English Language 3 credits**

A survey of the development of the English language from its origins as an Indo-European dialect to modern British and American English. The course will also examine regional, ethnic, and national varieties of English as well as current social and political issues regarding contemporary English.

**WRIT—240. Peer Tutoring in Writing 3 credits**

The purpose of this course is to teach students how to tutor others in writing. The major emphasis of the course is on writing: analyzing your own writing processes while learning to talk to others about theirs. This course is required for anyone who wants to be a Writing Center tutor.

**WRIT—320. Journalistic Writing 3 credits**

An introduction to the basic techniques of journalistic writing. Among the areas covered are: conducting interviews, researching news stories, examining categories of journalistic writing, journalistic ethics. (ATTR: ARTS, WRIT)

**WRIT—340. Writing Short Fiction 3 credits**

This course will use peer evaluation and the traditional writing workshop to foster student skills in writing short fiction. Students are required to distribute stories they have written to class for critique and group evaluation. The works of contemporary writers will be studied with an eye toward formal concerns and techniques. Students will be introduced to the art of contemporary short fiction writing.

**WRIT—360. Writing Poetry 3 credits**

This course will use peer evaluations and the traditional writing workshop to foster student skills in writing poetry. Students are required to distribute poems they have written to the class for critique and group evaluation. Poetic theory and technique will be examined, and the works of

contemporary poets will be studied. Students will be introduced to the art of writing contemporary poetry. (ATTR: ARTS, WRIT)

**WRIT—390. Topics in Writing 3 credits**

This course will explore writing topics not usually offered as part of the regular curriculum. Specific topics will be announced during the semester previous to the one in which the course will be offered. The course may be taken twice with different topics. (ATTR: ARTS, WRIT)

**WRIT—480. Internship in Writing 3 credits**

See ENGL—480 for course description. (ATTR: ARTS, INT)

**WRIT—499. Independent Study 3 credits**

Students may pursue a topic of their choosing. This topic, including a bibliography, must be submitted in writing and approved by the professor and the department. (ATTR: ARTS, WRIT)

## History Department

*Head:* Dr. James C. Harrison, *Prof.*

*Prof.:* Dr. Karl K. Barbir, Dr. Won Z. Yoon

*Assoc. Prof.:* Dr. M. Barbara Allen, Dr. Arthur Brenner, Dr. Robert Nii Nartey

*Ast. Prof.:* Dr. Daniel Dwyer, O.F.M., Dr. Bruce W. Eelman, Dr. Karen W. Mahar

The Department of History introduces students to the rich heritage of Western, American and other civilizations. The Department seeks to aid students in understanding both continuity and change: the complex, rapid changes of our times and their roots in and continuity with the past. History, while utilizing some of the methods of the social sciences, is humanistic in its approach and strives to integrate all past human experience. The Department attempts to foster the essential skills of the historian: scholarly inquiry and critical thinking, analysis, synthesis, narrative, and effective oral and written communication. It aims to prepare students for both advanced professional training and for careers as diverse as teaching, law, government, journalism, and business. To accomplish these purposes, students are offered a wide variety of courses in every area of history as well as specialized colloquia, honors seminars, and independent study.

*History Honors Program:* Students with high academic achievement, regardless of their major, are invited to participate in Honors seminars. Freshmen are chosen on the basis of SAT scores and their high school record. Students who maintain a cumulative index of 3.3 and complete a minimum of four Honors seminars with a B+ average will be eligible for a certificate of Honors in History upon graduation. Admission to the seminars is by permission of the department head.

High school students who score 4 or better on Advanced Placement tests in Modern European or American history shall receive School of Liberal Arts elective credit.

*Requirements for the Major:* 39 hours in History, including the College core requirement; HIST—201, 202, 203, and 204; 6 hours European history; 6 hours non-European/non-U.S. history; HIST—290 (may substitute HIST—390 or HIST—490); and nine elective credits in History. Cross-registered courses from other departments are only for elective credit. All History majors must complete six hours of a foreign language (classical or modern).

*Requirements for the Minor:* 18 hours in History including HIST—101 (or Level One Honors Seminar, HIST—190), six credits in one of the three history areas (American, European, non-European/non-U.S., i.e., Asia, Africa, Latin America, Middle East), and nine elective credits in History.

*Education Certification:* History majors seeking **initial** teaching certification in Social Studies should consult their advisor regarding specific requirements in education. The following are required: 39 hours in History, including the College core requirement; HIST—203 and 204; **3 additional hours of advanced American History; HIST—327**; 6 hours in European history, at least 3 must be in pre-nineteenth century history; 6 hours in non-European/non-U.S. history; HIST—290 (may substitute HIST—390 or HIST—490); and 9 elective credits in History. Six hours of a foreign language (classical or modern) are required. In addition, students must take one course each in economics, political science, and sociology.

To be admitted to the program, students must have an overall grade point average of 2.90, with a 3.0 in History, by the end of the junior year. For further information, please contact Dr. James Harrison, History Department Head and representative to the Education Profession Committee.

### Description of Courses

*HIST—101, The Shaping of the Contemporary World, fulfills the College core requirement of three hours in History, and is the prerequisite for all other courses in the department. Selected students may satisfy the core requirement with Level One History Honors. Transfer credits in History may be counted toward the core requirement. See the History Honors Program section for additional listings.*

#### **HIST—101. The Shaping of the Contemporary World 3 credits**

This course aims to provide students with an introduction to the discipline and methodologies of history through the study of the relationship of the West to non-Western societies in the contemporary world. Attention is focused on understanding the unique events and trends of the 20th century and their political, social, economic, literary and artistic antecedents in the previous century. (ATTR: ARTS, CDH, HEUR)

#### **HIST—201. The West and the World I 3 credits**

The purpose of this course is to analyze the Western Tradition as it evolved from the Greeks to the Italian Renaissance; to understand and appreciate non-Western civilizations and their encounters with the West; to examine the human condition over time, both the role of the powerful and the powerless. (ATTR: ARTS, CAH, HEUR, HMEU)

**HIST—202. The West and the World II 3 credits**

The purpose of the course is to analyze the Western Tradition as it evolved from 1500 to 1900; to understand and appreciate non-Western civilizations and their encounters with the West; and to examine the human condition over time, both the role of the powerful and the powerless. (ATTR: ARTS, CAH, HMEU)

**HIST—203. American History I 3 credits**

A survey of the political, geographic, social, economic, and intellectual factors that have contributed to the growth of the United States as a great power; from settlement through the Civil War era. (ATTR: AMSA, ARTS, CAH, HAM, HMEU)

**HIST—204. American History II 3 credits**

A survey of the political, geographic, social, economic, and intellectual factors that have contributed to the growth of the United States as a great power; from the Civil War era to the present. (ATTR: AMSA, ARTS, CAH, HAM, HMAM)

**HIST—205. Greek Civilization 3 credits**

A survey of the social, cultural, and political development of the Ancient Greeks, beginning with the Ancient Near East and continuing through the Homeric to the Hellenistic Age. This course may not be used to fulfill the requirement of six hours of foreign language study. (Same as CLSS—200) (ATTR: ARTS, CAH, HEUR, PNH)

**HIST—206. Roman Civilization 3 credits**

A survey of the social, cultural, and political development of Rome from its foundation to the fall of the Empire. (Same as CLSS—205) (ATTR: ARTS, CAH, HEUR, PNH)

**HIST—221. The Early Middle Ages 3 credits**

A study of the history of Europe between 476 A.D. and 1050 A.D. (ATTR: ARTS, HEUR, HMEU, PNH)

**HIST—225. The High and Late Middle Ages 3 credits**

A study of the history of Europe during the High and Late Middle Ages, between 1050 A.D. and 1450 A.D.

**HIST—230. The Renaissance and Reformation 3 credits**

A survey of the political and cultural institutions of the Western European States from 1350-1550 with an analysis of the origins and nature of the religious revolutions of that age and their relation to the new humanism.

**HIST—251. Nineteenth Century Europe, 1815-1915 3 credits**

This course treats industrialization and social change, the emergence of socialism and workers' movements, political and economic liberalism, German and Italian unification, Social Darwinism, and European imperialism. (ATTR: ARTS, HEUR, HMEU, ISP)

**HIST—253. Europe, 1914-1945 3 credits**

A study of the period as affected by the First World War, the Russian Revolution, the rise of Fascism in Italy and Nazism in Germany, the Great Depression, the problems of the democratic states, the breakdown of international cooperation, and World War II.

**HIST—255. Contemporary Europe, since 1945 3 credits**

A historical treatment from the European perspective of the principal developments and crises from the end of World War II to the present.

**HIST—260. England from 1485-1815 3 credits**

The emergence of modern England during the reigns of the Tudors, Stuarts and first four Hanoverians, with emphasis on political, social and economic changes.

**HIST—263. Nineteenth and Twentieth Century Britain 3 credits**

The history of Great Britain and the empire from 1815 to the present, with emphasis on political, social, and economic changes. (ATTR: ARTS, HEUR, HMEU, ISP)

**HIST—265. History of Ireland 3 credits**

A survey of Irish history from the beginnings to the present with emphasis on the development of Irish nationalism, the struggle for independence from Great Britain, and the contemporary conflict in Northern Ireland.

**HIST—270. History of Modern France 3 credits**

Political and cultural development of modern France from the French Revolution to the present.

**HIST—280. History of Modern Germany 3 credits**

Political, social, and economic evolution of the German nation from the Vienna settlement to the present.

**HIST—290. Proseminar in History 3 credits**

This seminar aims to introduce history students to both the methods and philosophical problems of history. The seminar will first consider a historical issue or a school of historical writing or the works of an eminent historian. It will then consider the philosophy of history and the questions historians have asked about their discipline.

**HIST—295. History of Modern Russia 3 credits**

A survey of Russian history from the reign of Ivan III (1462-1505) to the 20th century. (ATTR: ARTS, HEUR, HMEU, ISP)

**HIST—297. 20th Century Russia 3 credits**

The study of the reign of Nicholas II (1894-1917), the Soviet period, and post-Soviet Russia.

**HIST—310. Colonial and Revolutionary U.S., 1600-1789 3 credits**

A survey of the origins of the United States from early Colonial foundations to the establishment of the national government with emphasis upon the political maturation of the American colonists.

**HIST—313. The Federal Union, 1789-1850 3 credits**

A study of the functional origin of government under the Constitution and the expansion (geographical, political, social, and intellectual) of the United States.

**HIST—315. The Civil War and Reconstruction, 1850-1877 3 credits**

Description and analysis of the causes for the disruption of the Union, the conduct of the war, and the policies and politics of the Reconstruction era.

**HIST—320. Emergence of Modern America, 1869-1920 3 credits**

A study of the emergence of the United States as an industrial, urban nation and as a world power.

**HIST—323. Contemporary America, since 1920 3 credits**

A study of the political, social, economic, and intellectual currents of modern America and its developing role in world affairs.

**HIST—325. United States Women's History 3 credits**

This course will introduce students to the history of women in the United States from the pre-Columbian era to the present. Students will focus on issues of gender difference in the history of American business, labor, politics, culture, and social life, as well as considering differences between women with regard to race, ethnicity, class, and age. (same as WSTU—305)

**HIST—327. New York State History 3 credits**

The political, social, economic, and cultural history of the state of New York from the pre-Columbian era to the present.

**HIST—330. The Middle East: Foundations of the Modern Experience 3 credits**

A study of the region from the rise of Islam to the beginnings of modernization, with emphasis on the interplay of politics, religion, economy, and culture between 600 and 1800. (ATTR: ARTS, CAH, HNWI, ISP)

**HIST—333. The Middle East in Modern Times 3 credits**

A study of the emergence of the regional state system, deep economic transformation, and wrenching social and cultural changes since 1800. Particular attention is given to the reasons for conflict and war. (ATTR: ARTS, HNWI, ISP, MULT)

**HIST—340. Latin America: The Colonial Period 3 credits**

A survey of the history of Latin America from 1492 to independence in the 1820s. (ATTR: ARTS, CAH, HNWI, ISP, MULT)

**HIST—343. Latin America: The National Period 3 credits**

A survey of the history of Latin America from the 1820s to the present. (ATTR: ARTS, CAH, HNWI, ISP)

**HIST—345. History of Mexico 3 credits**

The political, social, and economic development of Mexico from colonial times to the present. (ATTR: ARTS, CAH, HNWI, ISP)

**HIST—350. History of East Asia I 3 credits**

A survey of East Asian history with emphasis on the political, economic, social, and cultural development of China, Japan, and Korea: from earliest times to 1600. (ATTR: ARTS, CAH, HNW, ISP)

**HIST—353. History of East Asia II 3 credits**

A survey of East Asian history with emphasis on the political, economic, social, and cultural development of China, Japan, and Korea: since 1600.

**HIST—355. Southeast Asia: The Mainland 3 credits**

A general survey of the history and cultures of mainland Southeast Asia: Burma, Thailand, Cambodia, Laos, and Vietnam.

**HIST—357. Southeast Asia: The Archipelago and Island Countries 3 credits**

A general survey of the history and cultures of the island countries of Southeast Asia: Indonesia, Malaysia, the Philippines, and Singapore. (ATTR: ARTS, HNW, ISP, MULT)

**HIST—360. History of Modern China 3 credits**

History of modern China since 1840, with particular attention given to China's response to the West, the disintegration of Imperial China, the development of nationalism, and the rise of Chinese communism.

**HIST—363. History of Modern Japan 3 credits**

History of modern Japan, with principal emphasis on political, economic, intellectual, and social developments since 1853. (ATTR: ARTS, HNW, ISP, MULT)

**HIST—370. Africa I: Genesis of Modern Africa 3 credits**

A general examination of the social, political, economic and environmental developments of the indigenous African states including their response to Eastern and Western contacts from pre-history to 1875.

**HIST—373. Africa II: The Modern Transition 3 credits**

A general examination of the development of Africa from 1875 with emphasis not only on the economy, society, and politics but also the impact of colonization upon the course of modernization. (ATTR: ARTS, HNW, ISP, MULT)

**HIST—375. Women in European History 3 credits**

This course focuses on the social, economic, and political conditions and misogynist attitudes throughout European history from prehistoric times to the present which created the subordination of women to men. The course also identifies the creation of a feminine consciousness which led to female demands for rights and equality and by the twentieth century to a partial reversal of centuries' old fear and hatred of women. (same as WSTU—310)

**HIST—401. Colloquium in History 3 credits**

This course is designed to explore areas and topics not treated in the traditional history course offerings. The area or theme will be studied in depth and emphasis will be on discussion. The subject will be announced

before the semester in which the colloquium is to be given. An additional fee may be required, depending on the topic offered.

**HIST—411. Slavery in Historical Perspective 3 credits**

An historical examination across the major world civilizations from the ancient period to the present of the development of slavery. Focus will be upon the causes and sources of slavery, its impact and consequences upon society, attitudes toward slavery, the life of the slave, and abolition. (ATTR: ARTS, CAN, HAM, HEUR, HNW MULT, PNH)

**HIST—415. The French Revolution and Napoleon 3 credits**

A study of the revolution and its Napoleonic aftermath in its French and international aspects. (ATTR: ARTS, CAH, HEUR, HMEU)

**HIST—421. Russian Foreign Policy: The Soviet Period 3 credits**

An analysis of Soviet foreign relations: goals, strategy, and tactics, including the Cold War and post-Soviet foreign policy. (ATTR: ARTS, HMEU, HEUR, ISP)

**HIST—425. Russian Intellectual and Social History 3 credits**

The evolution and development of Russian society and currents of thought from Kievan Rus to the present. (ATTR: ARTS, CAH, HEUR, HMEU)

**HIST—451. Intellectual and Social History of the United States I 3 credits**

The development of social institutions and currents of thought from the 16th century to mid-19th century.

**HIST—453. Intellectual and Social History of the United States II 3 credits**

The development of social institutions and currents of thought from the mid-19th century to the present.

**HIST—455. The Westward Movement, 1750-1890 3 credits**

The development of the American West from its role in the Anglo-French conflict for empire to the official closing of the frontier by the census of 1890. (ATTR: AMSA, ARTS, HAM, HMAM)

**HIST—457. History of American Immigration 3 credits**

A study of the historical movement of peoples to the United States, including the process of adjustment and the impact of immigration upon American life during the course of its national growth. (ATTR: AMSA, ARTS, HAM, HMAM)

**HIST—461. African-American History 3 credits**

A study of the course of black history in the United States, including migration to English America, slavery, emancipation, segregation, rise of organized protest movements, and the civil rights revolution, as well as a consideration of the influence of blacks upon various phases of American political, social, economic, and intellectual development.

**HIST—463. U.S. Military History 3 credits**

A study of the military history of the U.S. (and necessary European background) from the age of settlement through Vietnam, concentrating on the roots of the armed forces in the society and the impact of change, social, political, and technological on the role and functions of the armed forces of the U.S. (ATTR: AMSA, ARTS, HAM, HMAM)

**HIST—465. Spanish Borderlands 3 credits**

An historical examination of the Spanish borderland region of the United States between 1513 and 1821 with concluding remarks regarding the period of Mexican authority over Texas and the Southwest between 1821-1848. Focus will include the exploration and occupation of the region as well as social, political, economic, and military developments. (ATTR: AMSA, ARTS, CAH, HAM, HNW, ISP, MULT)

**HIST—471. Conflict in South Africa 3 credits**

A survey of South Africa history from pre-colonial times through the arrival of white settlers and the ensuing race conflict which has raged through the centuries, with emphasis on the social, political and economic dimensions, up to the present. (ATTR: ARTS, HNW, ISP, MULT)

**HIST—480. Internship in History 3 credits**

Work in local historical societies, museums, archival and resource centers, etc.

Open to second semester Juniors and Seniors who have completed a minimum of 9 credit hours in history, including U.S. history, and who present a GPA of 2.75 or higher. Permission of the Director of American Studies and the Head of the History Department is required. Evaluation of such credit is made by the staff of the participating institution, and the Director of American Studies or a member of the History Department chosen by the Department in consultation with the Director of American Studies. (Cross-registered with AMST—480)

**HIST—495. Independent Study 1 - 3 credits**

Highly advanced individual study under the direction of a member of the department of a topic chosen by the student and based upon his/her particular interest and background. It will involve private consultation with the advisor, independent research, and the writing of a research paper. A senior History major with exceptional qualifications and a record of distinctive achievement may pursue independent study with the approval of an instructor and the department.

**History Honors Program**

**HIST—190. Level I Honors Seminar: Shaping of the Contemporary World 3 credits**

Selected topics in twentieth century world history. This seminar fulfills the core requirements of three credits in history for those students who qualify. (ATTR: ARTS, CDH, HEUR)

**HIST—390. Honors Seminar: Selected Research Topics 3 credits**

**HIST—490. Honors Seminar: Selected Research Topics 3 credits**

## Modern Language and Classics Department

*Head:* Dr. L. Lee Helsby, *Assoc. Prof.*

*Prof.:* Dr. John J. McKenna

*Assoc. Prof.:* Dr. Carolyn Malloy-Madrid, Mr. Joseph E. Myers, Dr. Michael Sham, Dr. Lydia C. Tarnavsky

The study of modern languages has multiple objectives. It presents to the student vocabulary, idiom, and structure of a foreign language, and at the same time it teaches the student to understand the spoken language and to converse in it, to read well and to write correctly. Also, through the study of cultural differences, modern language courses endeavor to help free students' thinking from provincialism and narrow-minded world views. Through the study of literature, the student moves beyond the language itself and gains important insight into other civilizations, other times and their ideas.

The objectives of the Classics curriculum are twofold. First, the Department teaches courses in Greek or Latin as a preparation for a professional career where a knowledge of the original languages is essential. Second, the Department teaches courses (requiring no knowledge of Greek or Latin) which set forth significant aspects of classical civilization: its pervasive ideals, political experiences, artistic forms, and literary archetypes. The offerings of the Classics curriculum are designed to provide a student with a unique grasp of the origins of Western Culture. Courses are structured in three units: GREK—Greek Language and Literature; LATN—Latin Language and Literature; CLSS—Greek and Roman Studies.

All incoming students who desire to begin their modern language study on the intermediate level shall present a minimum of two years modern language study with a grade of C or higher.

A language laboratory is available for student use, according to the instructions of the instructor.

Modern Language majors interested in international studies and international business should consult the section of the catalog describing Siena's program in International Studies, Foreign Languages, and Business.

Individuals who are native speakers of the language being studied will require departmental permission to take FREN—101 through FREN—302 or SPAN—101 through SPAN—302 or GERM—101 through GERM—302 or RUSS—101 through RUSS—302 for credit.

*Requirements for the Major, French:* 30 hours in French beyond the elementary level, including FREN—301 (French Conversation I), FREN—410 (Advanced Grammar and Composition), FREN—401 (Survey of French Literature I) and FREN—402 (Survey of French Literature II). Students who plan to teach or enter graduate study are advised to take additional courses in a second foreign language.

*Requirements for the Minor in French:* 18 credits in French, not including FREN—101 or FREN—102 nor any literature course taught in English. The minor must include FREN—301 or FREN—302 and at least one course in literature given in French. Courses taken on pass/fail basis may not be included.

*Requirements for the Major, Spanish:* 30 hours in Spanish beyond the elementary level, including SPAN—301 (Communication in Spanish I), SPAN—340 (Advanced Grammar) (must be taken at Siena if completing the Education Certification program), SPAN—401 and SPAN—402 (Spanish Literature I and II). Students who plan to teach or enter graduate study are advised to take additional courses in a second foreign language.

*Requirements for the Minor in Spanish:* 18 credits in Spanish, not including SPAN—101 or SPAN—102 nor any literature course taught in English. The minor must include SPAN—301 and SPAN—302 and at least one course in literature given in Spanish. Courses taken on pass/fail basis may not be included.

*Requirements for the Minor in German:* 18 credits in German, not including GERM—101 or GERM—102. Courses taken on pass/fail basis may not be included.

*Education Certification in French or Spanish:* The Modern Language Department will recommend for participation in the provisional certification program only students with a GPA of at least 3.0 and a 3.2 average in the major field. We *strongly* recommend at least a semester of study abroad. In French, FREN—310 (Advanced Conversation) is strongly advised.

*Requirements for the Major in Classics:* 12 hours in one of the two classical languages, Latin (LATN) or Greek (GREK) and 24 hours in Classics (CLSS). Students who plan to enter graduate study in Classics are advised to take additional courses in the second of the classical languages. For students planning an advanced degree it is also recommended that they begin the study of French and/or German.

*Requirements for the Minor in Classics:* 18 credits in Classics, of which, 6 must be in either Latin or Greek. If 12 credits or more are in a single language (LATN or GREK), the Minor will be in that language. Courses taken on pass/fail basis may not be included.

*Requirements for Minor in Greek:* 18 credits in Classics including at least 12 in Greek.

*Requirements for Minor in Latin:* 18 credits in Classics including at least 12 in Latin.

## Modern Languages

### French

#### Description of Courses

**FREN—025. Modern French Novel in Translation 3 credits**

The course examines representative works from Proust to the present day and provides discussion of each author's ideas of basic modern problems in English. No knowledge of French language is required. May not be used as part of French major or minor. (ATTR: ARTS, CAL)

**FREN—026. French Literature in Translation 3 credits**

A study of selected masterworks of French literature from its medieval beginnings through the twentieth century, including novels, short stories, drama and poetry, read in English translation. No knowledge of French language is required. May not be used as part of French major or minor. (ATTR: ARTS, CAL)

**FREN—101. Fundamentals of French I 3 credits**

The study of French pronunciation, vocabulary, grammar, and composition with supplementary reading in the language. Lab fee.

**FREN—102. Fundamentals of French II 3 credits**

A continuation of FREN—101. Prerequisite: FREN—101 or equivalent. Lab fee.

**FREN—201. Intermediate French I 3 credits**

A thorough review of the structures of the French language, supplemented by selected readings. Emphasis will be placed on the oral aspect of the language. Prerequisite: FREN—101 and 102 or evidence of having successfully completed at least two years' study of French on the secondary level. Lab fee.

**FREN—202. Intermediate French II 3 credits**

A continuation of FREN—201. Prerequisite: FREN—201. Lab fee.

**FREN—301. French Conversation I 3 credits**

This course is intended for those students who have a good knowledge of written French but who have had limited opportunity to hear and speak it. Class work will consist of building the vocabulary of everyday speech with a view towards an active vocabulary and giving confidence in oral expression. Prerequisites: FREN—201 and 202 or equivalent.

**FREN—302. French Conversation II 3 credits**

A continuation of the work of French Conversation I but with stress upon more complicated structures, more extensive and specialized vocabularies. The aim is to prepare the student for increased ease and ability to carry on day-to-day activities in French. Prerequisites: FREN—201 and 202, or equivalent.

**FREN—310. Advanced French Conversation 3 credits**

Advanced oral work through class discussion of selected topics and creation of dialogues. Intensive pronunciation work. Prerequisite: FREN—301 and 302 or permission of instructor.

**FREN—330. French Civilization 3 credits**

A survey of the factors and forces that made Modern French Civilization. Prerequisite: FREN—301.

**FREN—340. Civilization of Québec 3 credits**

A study of Québec, through its history, geography, arts and literature, political, and social structures. A visit to the province of Québec is required. Taught in French. Prerequisite: FREN—301 or equivalent.

**FREN—360. Introduction to French Literature 3 credits**

Reading and analysis of texts of different genres, which will be selected primarily from the works of modern French authors. In order to develop further the oral skills, class discussions will be conducted in French. Prerequisite: FREN—301 or equivalent.

**FREN—370. Introduction to French Drama 3 credits**

This course constitutes an introduction to French Literature through the medium of the Drama.

**FREN—380. The Short Story 3 credits**

This course introduces the student to French literature through the medium of one of its most important genres. With an important emphasis on oral work on the part of the student, the course will be conducted in French. Prerequisites: FREN—301.

**FREN—401. Survey of French Literature I 3 credits**

The course demonstrates the evolution of major themes in French literature in all genres from their origins to the beginnings of modern times. Prerequisites: FREN—301.

**FREN—402. Survey of French Literature II 3 credits**

An introduction to French writers of the nineteenth and twentieth centuries. Included are examples of short story, poetry, and drama. Prerequisites: FREN—301.

**FREN—410. Advanced Grammar and Composition 3 credits**

A systematic presentation of the more complex points of French grammar. An application of these grammatical principles will be demonstrated through extensive written exercises, including translations and original compositions. Prerequisite: FREN—301.

**\*\*\*FREN—430. French Prose of the Nineteenth Century 3 credits**

This course will include representative and selected readings and analysis from the writings of the following: Chateaubriand, Balzac, Stendhal, Vigny, Flaubert, Goncourts, Zola, Maupassant, Hugo, and others. Prerequisite: FREN—301.

**\*\*\*FREN—440. The Twentieth Century French Novel 3 credits**

A detailed analysis of the developments of the French novel from 1900 to the present day. Prerequisite: FREN—301.

**\*\*\*FREN—495. Independent Study in French 1 - 3 credits**

A student taking a major or minor in French may work independently on a topic of special interest. The student consults with the professor with whom he/she decides on a study that will permit a definite accomplishment by the end of the semester. This study must be approved by the department head and the dean. In a term paper or essay he/she is expected to demonstrate familiarity with the tools basic to his/her study and an awareness of the methods appropriate to pursuing his/her interest.

## German

### Description of Courses

**GERM—025. Twentieth Century Germanic Literature in Translation 3 credits**

A study of selected masterpieces of German, Austrian, and Swiss Literature including novels, short stories, drama, and poetry, read in English translation. No prerequisite. (ATTR: ARTS, CAL)

**GERM—101. Fundamentals of German I 3 credits**

Introduction to elementary German grammar, syntax, and vocabulary. Designed for students with no previous knowledge of German. Lab fee.

**GERM—102. Fundamentals of German II 3 credits**

A continuation of GERM—101. Prerequisite: GERM—101 or 2 years of high school German. Lab fee.

**GERM—201. Intermediate German I 3 credits**

Intensive review of grammar and syntax, supplemented by selected readings. Prerequisite: GERM—101, 102 or three years of high school German. Lab fee.

**GERM—202. Intermediate German II 3 credits**

A continuation of GERM—201. Prerequisite: GERM—201 or four years of high school German. Lab fee.

**GERM—301. Conversational German I 3 credits**

Emphasis placed on vocabulary building and oral proficiency. Little or no grammar review. Prerequisite: GERM—202 or consent of instructor. Lab fee.

*\*\*\* Offered when there is sufficient student interest*



**GERM—302. Conversational German II 3 credits**

Continuation of GERM—301. Prerequisite: GERM—301 or permission of instructor. Lab fee.

**GERM—330. German Civilization I 3 credits**

A survey of German history and culture from the Period of the Migration to the Age of Frederick the Great. Prerequisite: GERM—202 or permission of instructor.

**GERM—331. German Civilization II 3 credits**

A survey of German history and culture from the Age of the Revolution to the Weimar Republic. Prerequisite: GERM—202 or permission of instructor. (ATTR: ARTS, ISP)

**\*\*\*GERM—340. Modern German Readings I 3 credits**

Selected German Readings offered as a tutorial for advanced students of German. Prerequisite: GERM—202 or permission of instructor.

**\*\*\*GERM—341. Modern German Readings II 3 credits**

Continuation of GERM—340 Prerequisite: GERM—340 or permission of instructor. (ATTR: ARTS, ISP)

*\*\*\* Offered when there is sufficient student interest*

## Russian

### Description of Courses

**\*\*\*RUSS—101. Fundamentals of Russian I 3 credits**

An introductory study of Russian phonetics, pronunciation, vocabulary, and grammar. Stress upon the spoken language, with oral drill and dialogue practice. Lab fee.

**\*\*\*RUSS—102. Fundamentals of Russian II 3 credits**

A continuation of RUSS—101. Prerequisite: RUSS—101 or the equivalent. Lab fee.

**RUSS—201. Intermediate Russian I 3 credits**

The study of Russian grammar and vocabulary is continued. At this level both spoken language and reading are stressed. Prerequisite: RUSS—102 or the equivalent.

**RUSS—202. Intermediate Russian II 3 credits**

A continuation of RUSS—201. Prerequisite: RUSS—201 or the equivalent.

**\*\*\*RUSS—301. Russian Conversation I 3 credits**

The emphasis is on speaking Russian. Colloquial speech patterns will be studied. To broaden vocabulary, increase reading skills and stimulate classroom discussion, texts ranging from Pushkin to Solzhenitsyn will be used. Grammar and syntax will be reviewed. Prerequisite: RUSS—202 or the equivalent.

**\*\*\*RUSS—302. Russian Conversation II 3 credits**

Continuation of RUSS—301. Prerequisite: RUSS—301 or the equivalent.

**\*\*\*RUSS—401. Advanced Russian Readings and Conversation I 3 credits**

Development of reading and speaking skills will be emphasized. Grammar and syntax will be reviewed and new material introduced. Emphasis will be placed on increasing both passive and active vocabulary using a wide range of sources including textbooks, literary and journalistic sources, and class discussion. Prerequisite: RUSS—302 or equivalent.

**\*\*\*RUSS—402. Advanced Russian Readings and Conversation II 3 credits**

Continuation of RUSS—401. Prerequisite: RUSS—401 or equivalent.

*\*\*\* Offered when there is sufficient student interest*

## Spanish

### Description of Courses

#### **SPAN—027. Women Writers from Latin America: Literature in Translation**

A study of selected texts by women writers from Latin America from the seventeenth century to the present, including novels, short stories and poetry, read in English translation. May not be used as part of the Spanish major. (ATTR: ARTS, MULT, WSTU)

#### **SPAN—101. Fundamentals of Spanish I 3 credits**

This course is designed for the beginning student and emphasizes correct oral expression and fundamental language structure. In addition to the regular classroom schedule, the student has at his or her disposal a modern language laboratory. Lab fee. (ATTR: ARTS)

#### **SPAN—102. Fundamentals of Spanish II 3 credits**

A continuation of SPAN—101. Prerequisite: SPAN—101. Lab fee. (ATTR: ARTS)

#### **SPAN—201. Intermediate Spanish I 3 credits**

Using a variety of topics related to Hispanic culture for reading and discussion, the audio-lingual aspect of the language is further developed, and the ability to read with understanding is increased. The structure of the language is also thoroughly reviewed. Prerequisite: SPAN—101, 102 or evidence of having successfully completed at least two years of study of Spanish on the secondary level. Lab fee. (ATTR: ARTS)

#### **SPAN—202. Intermediate Spanish II 3 credits**

A continuation of SPAN—201. Prerequisite: SPAN—201. Lab fee.

#### **SPAN—301. Communication in Spanish I 3 credits**

To increase proficiency in speaking Spanish. Prerequisites: SPAN—201, 202 or equivalent. (ATTR: ARTS, ISP)

#### **SPAN—302. Communication in Spanish II 3 credits**

A continuation of SPAN—301 with emphasis on the development of writing skills. Prerequisite: SPAN—201, 202 or equivalent.

#### **\*\*\*SPAN—310. Spanish Language Study Tour 3 credits**

A specially designed intensive language course focusing on a particular linguistic or cultural topic. The course will meet by arrangement during the semester for orientation meetings and introductory lectures on the topic to be studied, followed by a study program in a Spanish speaking country. Prerequisites: SPAN—301 or SPAN—302 or by permission of the instructor. Open only to matriculated Siena students. Enrollment of no fewer than 8 and no more than 25 students required.

\*\*\* Offered when there is sufficient student interest

**SPAN—320. Introduction to Hispanic Prose 3 credits**

Selected readings from Hispanic literature are used. Emphasis is primarily placed on the development of critical reading skills.

Discussions are conducted entirely in Spanish thus further developing the oral skills. Prerequisite: SPAN—301.

**SPAN—330. Introduction to Hispanic Drama 3 credits**

A study of selected works of Hispanic drama both classical and modern. Prerequisite: SPAN—301 or 302. (ATTR: ARTS, ISP, SPLT)

**SPAN—340. Advanced Grammar 3 credits**

A thorough study of the principles of Spanish grammar with extensive practice in composition. Designed for the advanced student. Prerequisite: SPAN—301, 320 or 330.

**SPAN—350. Spanish Civilization 3 credits**

A survey of the main currents of the culture, literature, art, and civilization of Spain. Prerequisite: SPAN—301.

**SPAN—360. Spanish American Civilization 3 credits**

A survey study of the main currents of the culture, literature, art, and civilization of the Spanish American countries from pre-Hispanic days to the present. Prerequisite: SPAN—301.

**SPAN—401. Spanish Literature I 3 credits**

A survey of Spanish literature. Prerequisite: SPAN—320 or SPAN—330. (ATTR: ARTS, ISP, SPLT)

**SPAN—402. Spanish Literature II 3 credits**

A survey of Spanish literature. Prerequisite: SPAN—320 or SPAN—330.

**\*\*\*SPAN—410. Drama of the Nineteenth Century 3 credits**

This course examines representative dramas from Moratin to Benavente. Plays selected illustrate all the important literary movements of the past century. Prerequisite: SPAN—320 or SPAN—330.

**\*\*\*SPAN—420. Novels of the Nineteenth Century 3 credits**

This course examines representative novels from Alarcon to Galdos. Works chosen demonstrate the important literary currents of the past century. Prerequisite: SPAN—320 or SPAN—330.

**\*\*\*SPAN—430. Literature of the Twentieth Century 3 credits**

A study of Spanish literature from the Generation of '98 to the contemporary period. Prerequisite: SPAN—320 or SPAN—330.

**\*\*\*SPAN—440. Drama of the Golden Age 3 credits**

A chronological study of the development of the drama from Cervantes to Calderon. Prerequisite: SPAN—320 or SPAN—330.

\*\*\* Offered when there is sufficient student interest

**\*\*\*SPAN—450. Don Quixote 3 credits**

A detailed study of this great work and its importance in the development of the modern novel. Lectures, readings, reports. Prerequisite: SPAN—320 or SPAN—330.

**\*\*\*SPAN—460. Representative Latin American Authors 3 credits**

A general survey of Latin American literature from its origins to the contemporary period. Prerequisite: SPAN—320 or SPAN—330. (ATTR: ARTS, ISP, MULT, SPLT)

**\*\*\*SPAN—495. Independent Study in Spanish 1 - 3 credits**

A Spanish major may work independently on a topic of special interest. The student consults with the professor with whom he/she decides on a study that will permit a definite accomplishment by the end of the semester. This study must be approved by the Department Head and the Dean of Liberal Arts. In a term paper or essay he/she is expected to demonstrate familiarity with the tools basic to his/her study, and an awareness of the methods appropriate to pursuing his/her interest.

## Classics

### Latin

#### Description of Courses

**LATN—101. Elementary College Latin I 3 credits**

An intensive study of Latin grammar and vocabulary with emphasis on learning to read simple Latin. This is the first course for students offering less than two entrance units in Latin. A student must complete LATN—101 (or the equivalent) in order to register for LATN—102.

**LATN—102. Elementary College Latin II 3 credits**

A continuation of LATN—101. Prerequisite: LATN—101 or permission of instructor.

**LATN—201. Intermediate Latin 3 credits**

A course consisting of selections from representative classical authors. Important grammatical constructions are reviewed. This course is recommended for students who have completed Elementary Latin.

**LATN—250. Topics in Latin 3 credits**

Study of a foundational level topic. Subject matters will be made public in the official announcements which precede registration. This course may be taken more than once with different content. Prerequisite: LATN—201 or permission of instructor.

**LATN—300. Advanced Topics in Latin 3 credits**

Study of an advanced level topic. Subject matters will be made public

\*\*\* Offered when there is sufficient student interest

in the official announcements which precede registration. This course may be taken more than once with different content. Prerequisite: LATN—201 or permission of instructor.

**\*\*\*LATN—350. Advanced Prose Composition 3 credits**

An intensive review of Latin syntax with translation of sentences and paragraphs into Latin.

**LATN—495. Independent Study in Latin 1 - 3 credits**

Qualified students are invited to pursue a special project in Latin of their own choosing, with the approval of the Department.

**Greek**

Description of Courses

**GREK—101. Elementary Greek I 3 credits**

An intensive study of Ancient Greek grammar and vocabulary with practice in translating simple Greek. A student must successfully complete GREK—101 (or the equivalent) in order to register for GREK—102.

**GREK—102. Elementary Greek II 3 credits**

A continuation of GREK—101. Prerequisite: GREK—101 or permission of instructor.

**GREK—201. Intermediate Greek 3 credits**

This course consists of reading selections from representative authors of Classical Greek, for students who have completed elementary Greek.

**GREK—250. Topics in Greek 3 credits**

Study of a foundational level topic selected on the basis of faculty and student interest. Subject matters will be made public in the official announcements that precede registration. This course may be taken more than once with different content. Prerequisite: GREK—201 or permission of the instructor.

**GREK—300. Advanced Topics in Greek 3 credits**

Study of an advanced level topic selected on the basis of faculty and student interest. Subject matters will be made public in the official announcements that precede registration. This course may be taken more than once with different content. Prerequisite: GREK—201 or permission of the instructor.

**GREK—495. Independent Study in Greek 1 - 3 credits**

Qualified students are invited to pursue a special project in Greek of their own choosing, with the approval of the Department Head.

*\*\*\* Offered when there is sufficient student interest*

## Classical Studies

### Description of Courses

#### **CLSS—200. Greek Civilization 3 credits**

A survey of the social, cultural, and political developments of the Ancient Greeks, beginning with the Minoan-Mycenaean and continuing from the Homeric through the Hellenistic Age. (ATTR: ARTS, CAH, HEUR, PNH)

#### **CLSS—205. Roman Civilization 3 credits**

A survey of the social, cultural, and political development of Rome from its foundation to the fall of the Empire. (Same as HIST—206) (ATTR: ARTS, CAH, HEUR, PNH)

#### **CLSS—210. Women in Antiquity 3 credits**

A study, using a variety of methods and differing kinds of material including tragedies, comedies, lyric poetry, historical writings, lawcourt speeches, funeral stela, vase and fresco paintings, sculpture, medical treatises, etc., to recover as clear a reflection of the feminine voice from the Greco-Roman past as possible and to understand not only the role or position of women in antiquity, but the very meaning of “woman” for the ancients. Among the works by women writers that are extant we may include the poets Sappho, Corinna, Erinna, Nossis, and Sulpicia; early Hellenistic treatises attributed to Pythagorean women; private correspondence; Egeria’s 5th-cent. C.E. travel diary. (Same as WSTU—200) (ATTR: ARTS, CAH, WSTU)

#### **CLSS—220. Greek Literature in Translation 3 credits**

A survey of Greek literature in English translation from the Homeric to the Hellenistic Age. (Same as ENGL—051) (ATTR: ARTS, CAL, ELIT, ENUL)

#### **CLSS—225. Latin Literature in Translation 3 credits**

A survey of the literature of Republican and Imperial Rome. (Same as ENGL—055) (ATTR: ARTS, CAL, ELIT, ENUL)

#### **CLSS—240. Greek Archeology and Art 3 credits**

An introductory survey focusing on major archeological sites and significant developments in architecture, painting, pottery and sculpture from the Minoan-Mycenaean period to the Hellenistic Age. (ATTR: ARTS, CAA)

#### **CLSS—245. Roman Archeology and Art 3 credits**

An introductory survey focusing on major archeological sites such as Pompeii and Herculaneum, the topography and monuments of Rome, and the character of Roman achievements in architecture, painting, sculpture, engineering, and technology. (ATTR: ARTS, CAA)

**\*\*\*CLSS—250. Topics in Classics 3 credits**

Study of a foundational level topic selected on the basis of faculty and student interest. Subject matters will be made public in the official announcements that precede registration. This course may be taken more than once with different content. Prerequisite: permission of instructor.

**CLSS—260. Gods and Goddesses 3 credits**

A study in English of the Greco-Roman myths that treat the origin of the world, the generations of the gods, the creation of the human race, and the relationship between mortals and immortals. Also examined will be ancient notions of worship, including the importance of sacrifice and mystery cults. Different, contemporary, theoretical perspectives will be employed to interpret the meaning conveyed by these stories both for the ancients and for the modern world and to evaluate their force in the development of Greek and Roman culture, literature, and art and their subsequent influence on later peoples. (ATTR: ARTS, CAR)

**CLSS—265. Heroes and Heroines of Saga 3 credits**

A study in English of the Greco-Roman myths that deal with the heroes and heroines of the Greek royal houses, of the Trojan War, of the journey home; the legends involving Theseus, Heracles, Perseus, and Jason; certain local traditions of myths; the transformation of the Greek heroic tradition among the Romans, in particular that of the Trojan Aeneas; theoretical perspectives will be used to understand ancient conceptions of heroism and how they have influenced the later tradition. (ATTR: ARTS)

**CLSS—270. Classical Roots of English 3 credits**

A study of etymology and basic linguistics in order to understand the nature and structure of English words derived primarily from Greek and Latin. The vocabulary of the arts, politics, and humanities is analyzed as well as that of medicine, law, and the sciences.

**CLSS—280. Christian Writers 3 credits**

The reading of selected authors or themes in Christian Latin and Greek Literature in translation. This course may be taken more than once with different authors or themes.

**\*\*\*CLSS—300. Advanced Topics in Classics 3 credits**

Study of an advanced level topic selected on the basis of faculty and student interest. Subject matters will be made public in the official announcements that precede registration. This course may be taken more than once with different content. Prerequisite: permission of instructor.

**CLSS—495. Independent Study in Classics 1 - 3 credits**

Qualified students are invited to pursue a special project in Classics of their own choosing, and with the approval of the Department. (ATTR: ARTS)

*\*\*\* Offered when there is sufficient student interest*



## Philosophy Department

*Head:* Dr. John S. Burkey, *Prof.*

*Prof.:* Dr. Raymond Boisvert<sup>^</sup>, Dr. Julian A. Davies, O.F.M., Dr. Richard Gaffney, Dr. Jennifer McErlean, Dr. Paul C. Santilli<sup>†</sup>, Fr. John E. Van Hook, O.F.M.

*Assoc. Prof.:* Dr. Silvia Benso

*Visiting Asst. Prof.:* Dr. Steven Fesmire

Philosophy helps students to view themselves and their relationships to others, the world, and God in a responsible and intelligent manner. Philosophical study introduces students to the rich tradition of ideas that has shaped western culture. Moreover, philosophy stresses logical thinking, analysis, sound argument, and clear writing, thus providing skills necessary for success in any career. Majors in philosophy typically score high in standard professional tests and go on to careers in law, business, journalism, higher education, religion, and government. Philosophy majors also have great flexibility when choosing electives in other fields.

The function of the Department's core courses is to stimulate and expand students' thoughts about such themes as humanity, justice, freedom, the nature of reality, and God. These courses contribute to intellectual growth and maturity by providing a perspective from which to see human life as a unified whole.

*Philosophy Honors Program:* Students with high academic achievement, regardless of their major, are invited to participate in Honors courses. Courses associated with the Philosophy Honors Program will be published on a semester by semester basis. Honors courses are open to qualified students in any major with permission of the instructor. Students who maintain a cumulative index of 3.3 and complete a minimum of four Honors courses with a B+ average will be eligible for a Certificate of Honors in Philosophy upon graduation.

<sup>^</sup> *Sabbatical leave, 2002-2003*

<sup>†</sup> *Sabbatical leave, Fall 2002*

*Requirements for the Major:* 30 hours of course work including the core disciplinary requirement (PHIL—101), Ethics, a logic course, two mandatory courses in the history of philosophy (PHIL—290 and PHIL—294), an elective course in the history of philosophy (PHIL—342, PHIL—346, PHIL—348, PHIL—400, PHIL—420, PHIL—440), and a Seminar (PHIL—490). Six hours of one foreign language (Classical or Modern) are also required.

*Requirements for the Minor:* 18 credit hours in Philosophy including PHIL—101 (core disciplinary requirement), a logic course (PHIL—150 or PHIL—155), Ethics (PHIL—210) and three other courses. Students will structure their course selection in consultation with the department's minor advisor.

### Description of Courses

*All students must take PHIL—101, Philosophy and the Human Being, to fulfill the College core disciplinary requirement. This course is the prerequisite for all other courses in philosophy except logic courses. It is suggested that PHIL—101 be completed by the end of the sophomore year. Transfer credits in philosophy may count towards this requirement.*

#### **PHIL—101. Philosophy and the Human Being 3 credits**

An introduction to philosophy focusing on various themes pertaining to human existence. The subjects treated include knowledge, community, beauty, love, freedom, justice. Also examined are questions concerning body and the soul, the meaning of life and death, and the individual's relation to God. The figure of Socrates is prominent, but philosophers from a variety of historical periods and traditions are also studied. (ATTR: ARTS, CDP)

#### **PHIL—150. Basic Logic 3 credits**

Students will be introduced to informal logical techniques and the analysis of arguments. The course stresses critical thinking, the recognition and construction of valid arguments, the identification of mistakes in reasoning. Practice is stressed, including skills relevant to standardized testing, e.g. LSAT and GRE. (ATTR: ARTS, PLG)

#### **PHIL—155. Symbolic Logic 3 credits**

Introduces the techniques and results of modern formal logic. Emphasis is placed on the analysis of arguments in propositional and quantificational logic. Philosophical problems discussed include existential import, material implication, and applications of logic to other fields. (ATTR: ARTS, PLG)

#### **PHIL—202. Philosophy and Reality 3 credits**

This course extends and widens the scope of philosophy presented in PHIL—101. It deals with what are called "ultimate questions," including the nature of reality and the existence of an absolute being (God). Prerequisite: PHIL—101. (ATTR: ARTS, CAP)

**PHIL—210. Ethics 3 credits**

A philosophical study of ethical questions such as, how are we to live? What kind of people should we become? Typically examines virtue ethics, Kantianism, natural law theory, justice and rights theories, utilitarianism. Applies theories to contemporary moral and political concerns. Prerequisite: PHIL—101. (ATTR: ARTS, CAP, HSMR, ISP)

**PHIL—220. Philosophies of Love 3 credits**

This course examines an idea that has fascinated philosophers for all time. The subject of love will be studied historically, with readings from ancient, modern, and contemporary sources. Literature and films may be used along with philosophical texts. Prerequisite: PHIL—101. (ATTR: ARTS, CAP)

**PHIL—230. The Democratic Idea 3 credits**

This course examines an important idea in political philosophy, that of democracy. It does this both by studying the idea as it manifests itself in various epochs of the history of philosophy, and by exploring controversial questions in contemporary democratic theory. Prerequisite: PHIL—101. (ATTR: ARTS, CAP)

**PHIL—240. Philosophy of Art 3 credits**

This course examines works of art from several perspectives: What is the meaning of art? What does art tell us about human existence? What is the relationship between art and society? Examples will be drawn from the various arts: painting, sculpture, dance, motion pictures, music, literature, and architecture. Thinkers typically considered are: Plato, Aristotle, Plotinus, Aquinas, Kant, Freud, Tolstoy, Langer, Collingwood, Hegel, and Dewey. Prerequisite: PHIL—101. (ATTR: ARTS, CAP, NOEX)

**PHIL—260. Philosophy of Religion 3 credits**

An examination of fundamental questions about the nature and significance of religion. Central issues to be studied: religion as reasonable form of life, religious skepticism, pluralism in religion, arguments for the existence of God, the impact of science on religious belief, the place of ritual and symbolism in human life, religious language. Traditional and contemporary texts will be read. Prerequisite: PHIL—101.

**PHIL—270. Philosophy of Law 3 credits**

This course provides a general introduction to philosophical questions concerning law. Among these questions are: Why does law exist? Can laws be broken morally? Why should anyone obey laws? What kinds of laws are there and how do they differ from rules and regulations? What makes punishing criminals right? These issues will be examined through a variety of writings from great historical figures like Plato, Aquinas, Locke, and Mill, and contemporaries like Hart and Dworkin. Prerequisite: PHIL—101. (ATTR: ARTS, CAP, JMN)

**PHIL—285. Philosophy and the Feminine 3 credits**

This course focuses on the question of the feminine and how it has been represented by past and present philosophers. It explores issues of the definition of the body, sex, gender, desire, family, and reproduction. It investigates how the representations of the feminine offered by traditional and contemporary philosophers relate to their theorization of topics such as the self, identity, morality, science, religion, beauty. Prerequisite: PHIL—101.

**PHIL—290. Greek and Roman Philosophy 3 credits**

The philosophy of the Greeks and Romans. Main figures: Pre-Socratics, Plato, Aristotle, Plotinus, Epicurus, and the Stoics. Prerequisite: PHIL—101.

**PHIL—294. Early Modern Philosophy 3 credits**

European philosophy of the early modern period. Main figures are Descartes, Locke, Hume, Leibniz, and Kant. Prerequisite: PHIL—101. (ATTR; ARTS, PHY)

**PHIL—300. Philosophy and Knowledge 3 credits**

A philosophical study of human knowing: its possibility, justification, foundation, limits, and definability. An examination of skepticism, dogmatism, empiricism, rationalism, and theories of truth, certainty, and probability. Readings range from Greek to contemporary philosophers, emphasizing the modern period. Prerequisite: PHIL—101.

**PHIL—310. Genetic Explosion and its Moral Implications  
3 credits**

An interdisciplinary course integrating scientific and moral dimensions of the world. The course examines the present state of genetic knowledge, moral issues raised by present and future eugenic proposals, and the source and meaning of the ethics that ought to govern all human solutions. Prerequisite: PHIL—101.

**PHIL—320. Philosophy of Nature 3 credits**

Examination of the idea of nature in historical and contemporary perspective, including theories of humanity's place in and transformation of the natural world. Some points of emphasis are the legacy of ancient cosmology, the development of the scientific view of nature, modern technology, and current ecological theory. Prerequisite: PHIL—101. (Same as ENVA—320). (ATTR: ARTS, CAP)

**PHIL—330. Philosophy of Science 3 credits**

This course examines various aspects of science from a philosophical perspective. Typical issues include how to adjudicate between competing scientific theories, questions of methodology and objectivity, how theories change over time, and how science is related to culture, art, and religion. Thinkers to be considered include Descartes, Wittgenstein, Hempel, Popper, and Kuhn. Prerequisite: PHIL—101. (ATTR: ARTS, CAP)

**PHIL—333. Special Topics in Philosophy 3 credits**

Explores areas and topics not covered in the regular philosophy offer-

ings. Subject matters will be provided in the official announcements that precede registration. This course may be taken more than once with different content. Prerequisite: PHIL—101. An additional fee may be required, depending on the topic offered. (ATTR: ARTS)

**PHIL—342. Medieval Philosophy 3 credits**

The philosophy of the Medieval period. Main figures are St. Augustine, St. Bonaventure, St. Thomas Aquinas, and Duns Scotus. Prerequisite: PHIL—101. (ATTR: ARTS, PHY)

**PHIL—346. Late Modern Philosophy 3 credits**

European philosophy of the late modern period. Main figures are Hegel, Marx, Mill, Comte, and Nietzsche. Prerequisite: PHIL—101. (ATTR: ARTS, PHY)

**PHIL—348. Existentialism 3 credits**

The philosophy of 20th century Existentialism and its 19th century origins. Main figures are Kierkegaard, Nietzsche, Heidegger, Jaspers, Sartre, and Marcel. Prerequisite: PHIL—101. (ATTR: ARTS, CAP, PHY)

**PHIL—350. Philosophical Influences on Theology 3 credits**

A survey of selected philosophers and philosophical schools of thought and their influence on Christian Theology, Christian beliefs and practices. Selection will generally follow a time period, e.g. Ancient, Modern, Contemporary. This course may be repeated for credit when the selected material differs. Prerequisite: PHIL—101. (ATTR: ARTS, PHY)

**PHIL—400. Contemporary Anglo-American Philosophy 3 credits**

The philosophy of the 20th century in England and America. Main figures are Moore, Russell, Wittgenstein, Carnap, Ayer, Ryle, Austin, Strawson, and Quine. Prerequisite: PHIL—101.

**PHIL—420. Classic American Philosophy 3 credits**

American philosophers of the classic period. Main figures are Peirce, James, Dewey, Royce, Santayana, and Whitehead. Prerequisite: PHIL—101. (ATTR: AMSC, ARTS, PHY)

**PHIL—440. Phenomenology 3 credits**

The 20th century European philosophical movement dedicated to the descriptive analysis of the fundamental features of conscious experience. Main figures are Husserl, Heidegger, Scheler, and Merleau-Ponty. Prerequisite: PHIL—101.

**PHIL—490. Seminar 3 credits**

Either a special philosophical problem, a philosophical tradition, or the works of an individual philosopher will be selected for intensive study, with special emphasis on primary sources. Prerequisite: PHIL—101.

**PHIL—495. Directed Research 1 - 3 credits**

A qualified student, with the approval of a faculty mentor and the department, may work under close supervision to join a research project conducted

by a faculty member. Participating in research will include activities such as the following: conducting extensive library research, providing annotated summaries, attending local colloquia, reviewing manuscripts. Students will be required to keep a log of their activities and to prepare a narrative report upon completion of the semester. This course can be taken only on a pass/fail basis.

**PHIL—499. Independent Study 1 - 3 credits**

Senior Philosophy majors work independently on a topic of special interest with the approval of an instructor and the department. The topic will be pursued through private discussion, independent reading, an extensive written report, and an oral examination by two members of the department. (ATTR: ARTS)

**Political Science Department**

*Head:* Dr. Leonard M. Cutler, *Prof*

*Prof.:* Dr. Vera Eccarius-Kelly, Dr. Leon Halpert‡, Dr. Jean M. Stern

*Asst. Prof.:* Dr. Matthew Lindstrom, Dr. Salvatore Lombardo

The Political Science curriculum provides students with a comprehensive understanding and appreciation of the study of politics. Students will obtain basic knowledge within and across the principal fields of the discipline; think critically about the enduring issues of politics while studying political institutions, processes, behavior and value systems; and develop a variety of research skills.

Students who major in Political Science or who complete substantial coursework in the department will have a foundation for future careers or graduate study in such areas as law, government service, public policy and administration, international affairs, teaching, journalism and community or private sector service. Internships, independent study projects, and honors courses provide students with in-depth learning opportunities. The program also serves as a basis for knowledgeable and concerned citizenship for those who choose not to concentrate in political science.

*Requirements for the Major:* A minimum of 36 hours in Political Science, including POSC—100 through POSC—180.

*Requirements for the Minor:* 2 courses at the introductory level from POSC—100 through POSC—180; 4 courses at the elective level from POSC—205 through POSC—378. A student may substitute one Political Science internship (POSC—470, POSC—485 or POSC—489) for one course at the elective level. A student choosing the Washington Semester may substitute two of POSC—790 through POSC—797 for up to two courses at the elective level.

‡ *Sabbatical leave, Spring 2003*

*Education Certification:* Political Science majors seeking provisional certification in social studies need 30 hours in Political Science, including POSC—100 through POSC—180. Also required are: 3 hours in Economics, 3 hours in Sociology and 21 hours in History. The History requirement must include the 3 hour College core requirement and the 21 hours must be distributed across three areas: 6 hours in European history (includes HIST—101 or 190) of which at least 3 must be in pre-nineteenth century European history, HIST—203 and HIST—204, 6 hours in non-Western history, HIST—327 New York State History, and 6 hours of college language other than English. To be considered for the program, students must have an overall GPA of 2.90, with a 3.00 in Political Science.

### Description of Courses

#### **POSC—100. Contemporary U.S. Politics 3 credits**

This course is an overview of the major institutions and processes of the American political system. Both formal (i.e., Congress, the Presidency, and the Judiciary), and informal (e.g., political parties, interest groups, the media, etc.) institutions will be covered. It is designed to help the students not only acquire a basic knowledge of American government, but also develop the ability to critique and analyze it. (ATTR: AMSB, ARTS, CAS)

#### **POSC—130. Political Theory 3 credits**

An introduction to the major political ideologies of the contemporary world, such as liberalism, conservatism and socialism, with a focus on ideas about justice, equality, freedom, and law. (ATTR: ARTS, CAP)

#### **POSC—140. Comparative Politics 3 credits**

An introductory course establishing comparative models of political systems focusing upon socio-political organization, political socialization, decision-making and public policy in selected states. (ATTR: ARTS, CAS, ISP, M CCP)

#### **POSC—150. Global Politics 3 credits**

A study of the interactions between members of the international system to provide for military, economic, environmental, and social security. Concepts such as power, international law, international organization, human rights, sustainable development, collective security, and national security are examined. (ATTR: ARTS, CAS, ISP)

#### **POSC—180. Political Research 3 credits**

Examines assumptions of major theoretical approaches and implications for empirical research in Political Science including concept formation, survey and research design, and data analysis. Laboratory required one hour per week. (ATTR: ARTS)

#### **POSC—205. State and Local Government 3 credits**

An examination of American state and local political systems, empha-

sizing such topics as federalism and intergovernmental relations, federal grant-in-aid systems, the state gubernatorial, legislative and judicial process, local political systems, and public policies of state and local governments. Prerequisite: POSC—100 or Juniors or above. (ATTR: AMSB, ARTS)

**POSC—218. Women and Politics 3 credits**

This course examines the role of women in politics in terms of the broad political questions of participation, political socialization, social movements, and public policy. Prerequisites: POSC—100 or POSC—140 or Juniors or above. (ATTR: ARTS, WSTU)

**POSC—230. Classical and Medieval Political Theory 3 credits**

This course is designed as an introduction to both Classical and Medieval political theory as a discipline and to the political culture of the European West. We will explore an assortment of works, including both conventional and unconventional (or less well-known writers). Our most important goals are to examine how these writers understood themselves and their society, and how that understanding affected ideas about justice, the nature of power, rule, law, and obligation. We will also examine why these works, among others, came to be considered the foundation of Western political thought. Prerequisite: POSC—130 or Juniors or above.

**POSC—250. United Nations 3 credits**

Purposes and principles of the United Nations with politics, law, structure, voting, and policies of member states explored. Prerequisite: POSC—150 or Juniors or above.

**POSC—260. Public Administration 3 credits**

The course has four key objectives: First, to give students an overview of the intellectual heritage of public administration and decision making theory, federalism, bureaucratic power, administrative ethics and reforms. Second, to make students familiar with the public policy process, particularly with policy implementation. Third, to convey the basic tools and knowledge of the profession, especially budgeting, personnel, management and leadership. Finally, to familiarize students with current and possible future debates within public administration, including privatization, devolution, democratizing decision making and the global economy. Prerequisite: POSC—100 or Juniors and above.

**POSC—265. Public Policy 3 credits**

Public Policy studies the actions or outputs of government and the goals and intentions that motivate them. In the late 20th century, government has grown to the extent that virtually every individual, in every aspect of life, is affected by government choices. In this course, we will discuss the process of making public policy primarily by examining major substantive policy areas. From this study, we will be able to identify patterns in policy making as a whole. Prerequisite: POSC—100 or Juniors or above. (ATTR: ARTS, FSPS, HSMR)

**POSC—305. Metropolitan Government 3 credits**

The course examines the history of metropolitan government, from machine politics to reform politics and current governing trends regarding regionalism and privatization. In addition, the course examines policy and ethical issues that are faced by urban areas, including economic development, racial and economic equality and urban sprawl. Prerequisite: POSC—100 or Juniors and above.

**POSC—310. Interest Group Politics 3 credits**

A critical evaluation of the impact of interest group politics on the American policy-making process. The course includes a study of the various theories of the power of interest groups, the formation and development of interest group organizations and movements and the organizational maintenance of interest groups. Also, the course examines the roles interest groups play in shaping public attitudes, influencing campaigns and elections and lobbying political institutions and officials. Students should have a working knowledge of American government. Prerequisite: POSC—100 or Juniors or above.

**POSC—313. American Political Parties 3 credits**

An analysis of the development, organization and functions of American Political Parties. The course examines political parties as organizations, the party in the electorate and the party in government. Particular attention is paid to how well political parties perform the linkage role between the American people's preferences and the content of governmental policy decisions. Students should have a working knowledge of American government. Prerequisite: POSC—100 or Juniors or above.

**POSC—315. U.S. Congress 3 credits**

The course will examine principles, structures, procedures, and decision-making of the American legislative system with a primary emphasis on the U.S. Congress. Prerequisite: POSC—100 or Juniors or above. (ATTR: AMSB, ARTS)

**POSC—320. The American Presidency 3 credits**

The origin, development, and contemporary roles of the President and the Presidency in the American Political System. Special problems in relation to the contemporary Presidency and Vice Presidency. Prerequisite: POSC—100 or Juniors or above.

**POSC—325. Public Opinion 3 credits**

This course is an introduction to the study of public opinion. The course explores the origins of public opinion (political socialization, sociodemographic, personality, and political influences, and the mass media). The course will also cover public opinion polls and survey research techniques. Finally, the course will study the impact of public opinion on policy makers and public policy. Prerequisites: Political Research (POSC—180). (ATTR: ARTS)

**POSC—329. Special Studies in American Politics 3 credits**

The study of select problems such as equality, minority rights, majoritarianism, and participatory democracy in the light of the theory and practice of the American political system. (May be taken more than once with different content. Consult Fall and Spring Schedules for specific topics.) Prerequisite: POSC—100 or Juniors or above, or by permission. An additional fee may be required, depending on the topic offered. (ATTR: ARTS)

**POSC—339. Special Studies in Political Theory 3 credits**

This course explores major issues in political thought through the writings of selected political philosophers. Prerequisite: POSC—130 or Juniors or above. (ATTR: ARTS)

**POSC—341. Post Soviet Politics 3 credits**

A study of the political cultures and institutions of the newly independent states that were once part of the Soviet empire. The course includes discussions of modernization and adaptation as well as problems of ethnicity, race, and political socialization. Prerequisite: POSC—140 or Juniors or above. (ATTR: ARTS, ISP)

**POSC—343. European Politics 3 credits**

This course is designed as an analysis of political institutions in Western Europe. Topics to be addressed include the impact of the welfare state and dilemmas of governing in post-modern and post-industrial societies, as well as problems of race and ethnicity. Some familiarity with parliamentary systems or other political cultures would be a helpful background for interested students. Prerequisite: POSC—140 or POSC—150 or Juniors or above. (ATTR: ARTS, ISP)

**POSC—345. Chinese Government and Politics 3 credits**

The course focuses on the establishment, ideology, structures, internal politics, and international relations of the People's Republic of China. Prerequisite: POSC—140 or Juniors or above.

**POSC—347. Politics and Society in the Americas 3 credits**

The purpose of this course is to introduce students to the politics of Latin America and the Caribbean and to gain insight into the numerous social, political, and economic dilemmas confronting our neighbors in the Americas. Through the study of selected cases some of the more significant contemporary issues in the region will be explored, including the foreign debt crisis, environmental concerns, immigration, and the process of democratization. Prerequisite: POSC—140, POSC—150, or Juniors or above. (ATTR: ARTS, ISP, MULT)

**POSC—349. Special Studies in Comparative Politics 3 credits**

The course examines political systems at the regional, state or substate level and focuses upon socio-political organization, political socialization and decision-making structures. (May be taken more than once with different content. Consult Fall and Spring schedules for specific topics.)

Prerequisite: POSC—140 or POSC—150 or Juniors or above. An additional fee may be required, depending on the course offered. (ATTR: ARTS, ISP)

**POSC—351. U.S. Foreign Policy 3 credits**

There will be a case study examination of its historic development in economic, security, and cultural involvement from isolation to globalism. Prerequisites: POSC—100 or POSC—150 or Juniors or above.

**POSC—355. Global Environmental Dilemmas 3 credits**

This course studies how national, subnational and transnational actors create and actuate norms, principles, treaties and institutions for dealing with global environmental issues. Prerequisites: POSC—150 or ENVA—110 or junior standing. (Same as ENVA—315.) (ATTR: ARTS, ISP)

**POSC—359. Special Studies in Global Politics 3 credits**

The course examines contemporary issues, structures, and other relationships of international relations (may be taken more than once with different content). Consult Fall and Spring schedules for specific topics. Prerequisite: POSC—150 or Juniors or above. An additional fee may be required, depending on the course offered. (ATTR: ARTS, ISP)

**POSC—360. Environmental Politics 3 credits**

A study of environmental public policy: the major actors, institutions, and rules of the game that shape decision making. We will also engage in a dialogue about the underlying philosophies that drive resource utilization and environmental preservation. We will primarily look at the case of the United States, but some attention will be given to the international dimensions of the subject. Prerequisites: POSC—100 or ENVA—110 or Junior standing. (Same as ENVA—310.)

**POSC—370. Civil Liberties I 3 credits**

The conceptual basis of the status of the individual and personal rights as discussed and elaborated upon in the decisions of the Supreme Court of the United States. The case law approach is used. Prerequisite: Sophomores or above.

**POSC—372. Civil Liberties II 3 credits**

The practical basis of the status of the individual and personal rights as discussed and elaborated upon in the decisions of the Supreme Court of the United States. The case law approach is used. POSC—370 is not a prerequisite for POSC—372. Prerequisite: Sophomores or above.

**POSC—374. Introduction to Criminal Law 3 credits**

The study of crimes, e.g., murder, manslaughter, conspiracy, accomplice liability, burglary, theft. The case law approach is used. Prerequisite: Sophomores or above.

**POSC—376. The Fourth, Fifth and Sixth Amendments 3 credits**

The study of Supreme Court decisions affecting the rights of the criminally accused under the Fourth, Fifth and Sixth Amendments to the Bill of

Rights. The case law approach is used. Prerequisite: Sophomores or above. (ATTR: ARTS)

**POSC—378. International Law 3 credits**

The materials dealt with in this course are case analyses of international practice problems and how they reflect upon our domestic legal system. Prerequisite: Juniors or above. (ATTR: ARTS, ISP)

**POSC—470. Internship in Judicial Process 3 credits**

The objective of this course is to expose students to the intricacies of the State Judicial Process by blending selected readings and participation in seminar sessions with hands-on participation in the 3rd Judicial District of State Supreme Court. Students will serve as Judicial Process Interns and perform duties and responsibilities as determined by their State Supreme Court sponsors. Students will serve 120 to 150 hours during the semester. Students will be graded based upon joint evaluation by the judicial sponsor and internship professor. Written permission of the internship supervisor is required. Prerequisite: Seniors and permission. The internship is offered on a semester basis and may be taken in the fall or spring semester. (ATTR: ARTS, INT)

**POSC—485. Internship in Legislative Process 3 credits**

The objective of the course, exposure to the intricacies of the legislative process, is achieved by a blend of selected readings and participation in the New York State Legislature. Students will serve as Legislative interns working 120 to 150 hours during the semester performing duties and responsibilities as determined by the legislator in consultation with the faculty director. Students will be graded based upon joint evaluation of the legislator and internship professor. Written permission of the internship supervisor is required. Prerequisite: Seniors and permission.

**POSC—489. Internship in Public Service Studies 3 credits**

The course is designed to prepare and expose students to public policy making in New York State and allow them to participate in public policy formulation and execution at the state, substate and not-for-profit level. Students will serve as Public Service interns working 120 to 150 hours during the semester performing duties and responsibilities as determined by the agency supervisor in consultation with the faculty director. Students will be graded based upon the joint evaluation of the agency supervisor and internship professor. Written permission of the internship supervisor is required. Prerequisite: Seniors and permission.

**POSC—490. Political Science Honors 3 credits**

Department approval required. Consult Department for specific topics. Students may repeat this course for credit provided the selected subject matter has not previously been taken for credit. Prerequisite: Juniors or above and invitation.

**POSC—499. Independent Study in Political Science**

**1 - 3 credits**

Special problems of research in any of the following areas: Political Theory and Methodology, American Government, Comparative Government, International Relations, Law, Foreign Policy, and Area Studies. Each student must have the approval of the faculty member guiding his studies and the department head. Prerequisite: Juniors or above and permission.

*Please refer to ATDV—788 and 789 and the Washington Semester Program section of the catalog for additional information on the following listings:*

**POSC—790. Washington Semester I – American Politics:**

**National Government I 4 credits**

**POSC—791. Washington Semester II – American Politics:**

**National Government II 4 credits**

**POSC—792. Washington Semester I – American Politics:**

**Public Law I 4 credits**

**POSC—793. Washington Semester II – American Politics:**

**Public Law II 4 credits**

**POSC—794. Washington Semester I – Justice I 4 credits**

**POSC—795. Washington Semester II – Justice II 4 credits**

**POSC—796. Washington Semester I – Policy I 4 credits**

**POSC—797. Washington Semester II – Policy II 4 credits**



## Psychology Department

*Head:* Fr. Daniel Nelson, O.F.M., *Assoc. Prof.*

*Prof.:* Dr. Joseph G. Marrone, Dr. Robert J. Woll

*Assoc. Prof.:* Dr. Betty A. Bachman, Dr. Karen Boswell, Dr. Patricia Cameron, Dr. Maureen T. Hannah<sup>∞</sup>

*Asst. Prof.:* Dr. Dmitry Burshteyn, Dr. Thomas Swan

The Psychology Department offers a unique perspective on human diversity, encourages self-knowledge, and helps students to develop critical thinking skills in the tradition of the liberal arts and sciences. As both a science and profession, Psychology incorporates theories and principles of behavior and mental processes based on empirical investigation which are used to describe and predict behavior, to solve practical problems, and to promote human welfare.

The Psychology program prepares students for entry into graduate programs leading to careers in academic and professional psychology. The study of psychology also provides an excellent background for careers in other fields such as law, business, and the health-care professions.

Opportunities for outstanding students include internships in various field settings as well as collaborative research with faculty members. The mainframe computer and several microcomputers are accessible in the Psychology Laboratory in Roger Bacon Hall. Computer software is available for data collection and analysis, writing, and class demonstrations. The department maintains a collection of published and unpublished psychological tests and measures which may be used in student and faculty research projects.

*Requirements for the Major:* A professional psychologist must have a mastery of experimental methods and statistics and knowledge of the biological systems that underlie behavior. Consequently, students majoring in psychology are required to complete a minimum of 31 credits in Psychology, plus 11 credits of auxiliary requirements as follows:

<u>Courses</u>	<u>Credits</u>
General Biology for Social Sciences with lab (BIOL—130 & 140)	8
Statistics for Social Science (ATDV—110)	3
General Psychology (PSYC—100)	3
A total of five intermediate courses are required, one from each of the following areas:	
Developmental area:	
either Child Psychology (PSYC—200) or Adolescent Psychology (PSYC—205)	3
Clinical area:	
either Theories of Personality (PSYC—215) or Abnormal Psychology (PSYC—220)	3

<sup>∞</sup> *Academic Leave of Absence, Fall 2002*

Mental processes: either Learning (PSYC—240) or Human Cognition (PSYC—340)	3
Social interaction: Social Psychology (PSYC—260)	3
Biological bases: either Physiological Psychology (PSYC—350) or Sensation and Perception (PSYC—355)	3
Methodology: Research Methods I with lab (PSYC—300)	4
Upper level experience: choose either Tests & Measurements (PSYC—310) Research Methods II with lab (PSYC—400), or Seminar (PSYC—490)	3
Electives: any two additional courses in Psychology	6

Courses in Computer Science and the other social sciences are recommended. Students who plan to attend graduate programs are strongly encouraged to take Research Methods in Psychology II (PSYC—400). Psychology majors are encouraged to work closely with their faculty advisor in planning academic programs consistent with their interests and career goals.

*Requirements for the Minor:* 18 credits in Psychology, as follows:

<u>Courses</u>	<u>Credits</u>
General Psychology	3
At least one from the following: Child Psychology, Adolescent Psychology, Adult Development, Theories of Personality, Abnormal Psychology	3
At least one from the following: Learning, Human Motivation, Comparative Psychology, Social Psychology, Human Cognition, Physiological Psychology, Sensation and Perception	3
Tests and Measurements (requires Statistics for Social Science)	3
Any two additional Psychology courses	6

## Description of Courses

### **PSYC—100. General Psychology 3 credits**

A study of the basic topics in psychology that lay the foundation for courses leading to a major in psychology and are relevant to assisting students in understanding themselves and others. This course is recommended to students seeking an elective in psychology and as the initial course for psychology majors. (ATTR: ARTS, CAS)

### **\*\*\*PSYC—110. Psychology of Management 3 credits**

This course proceeds from the assumption that effective management is predicated on the establishment of positive human relations. A variety of human relations concepts and techniques are discussed in relation to the process of management including Transactional Analysis, Active Listening, Empathy, Assertiveness, and Psychological Type. Psychological perspectives on motivation, leadership, communication, decision-making, conflict management, and stress are also emphasized in relation to human relations concepts and skills. Not open to students who have taken PSYC—365.

### **PSYC—120. Psychology of Women 3 credits**

This course introduces the student to theory and research issues that explore the psychological experiences of women. Topics covered include various conceptual models of women, biological influences on their behavior, theories of female development, gender differences in personality and behavior, and problems of adjustment. It concludes with an examination of alternative lifestyles for women today.

### **PSYC—200. Child Psychology 3 credits**

A study of human growth and development from conception to puberty, including motor, emotional, intellectual, language and social development, and children's imaginative activities, ideals, morals, religion, and interests with particular emphasis on contemporary theories. Prerequisite: PSYC—100.

### **PSYC—205. Adolescent Psychology 3 credits**

The experience of adolescence as a distinct period of development is examined. Topics include biological processes and their psychosocial significance including health problems. Issues related to adolescent sexuality are also examined including sexual attitudes and behavior and gender roles. Intellectual changes during adolescence and their effects on social cognition, moral reasoning, and political thought are described. Selected family issues and relationships as influences on adolescent development are considered as well as peer group relationships, friendships, and other social relationships. The issue of identity formation is examined in detail. The effects of school experiences on academic achievement and career development are also discussed as are adjustment problems and disturbances during adolescence. (Same as EDUC—270.) Prerequisite: PSYC—100.

### **PSYC—210. Adult Development 3 credits**

This course introduces the student to the field of adulthood using a developmental approach as a systematic framework. The focus of the

\*\*\* Offered when there is sufficient interest

course is on issues that involve both change and continuity across early, middle and later years of the adult life cycle. The interaction of psychological, sociological and biological factors as well as the interaction between individuals and their environment is emphasized. In order to provide a comprehensive look at behavioral age changes, various theories and models of development and aging are discussed. Prerequisite: PSYC—100.

**PSYC—215. Theories of Personality 3 credits**

Theories of personality including psychoanalytic, neo-analytic, trait, learning, and humanistic paradigms are examined and evaluated. Prerequisite: PSYC—100.

**PSYC—220. Abnormal Psychology 3 credits**

Maladaptive behaviors are studied from theoretical and research perspectives. Topics include the psychoses, anxiety disorders, personality, social and sexual disturbances, disorders of childhood, organic mental disorders, and substance abuse. Therapeutic interventions and legal issues are also considered. Prerequisite: PSYC—100.

**PSYC—225. Health Psychology 3 credits**

Health psychology is a basic research and clinical practice area within psychology that focuses on understanding the scientific relationships between social, behavioral, and psychological processes and health. Topics will include health beliefs and health-enhancing behaviors, the effects of stress and coping on illness and disease recovery, adjustment to chronic or terminal illnesses, and clinical interventions such as pain management, behavioral management of diseases like HIV-spectrum illness and cancer, the relationship between the health care provider and patient, and cross-gender and cross-cultural variations in prevention and development of disease and in the factors related to positive coping with illness. Prerequisite: PSYC—100.

**PSYC—240. Learning 3 credits**

This course surveys historical and contemporary theories of human and animal learning. The psychological study of learning is traced as it has developed over the past 100 years. Among the earlier theorists surveyed are Thorndike, Pavlov, Guthrie, Hull, and Tolman. The more recent theories of Skinner and Bandura are given extended treatment. Current perspectives from cognitive science and neurophysiology are also reviewed. A general theme of this course is to demonstrate the relevance of each learning theory to matters of practical human importance. This course provides background that is of special relevance to individuals interested in education, child development, counseling, and clinical psychology. Prerequisite: PSYC—100.

**PSYC—245. Human Motivation 3 credits**

Motivational questions are fundamental to all of Psychology. The psychology of motivation inquires about the conditions which serve to initiate, maintain, direct, and terminate ongoing behavior. This course consid-

ers theory and research associated with the major perspectives on human motivation including instinct, ethological, and sociobiological theories, drive theories, arousal theory, expectancy-value theories, humanistic theories, cognitive consistency theories, and theories of causal attribution. The experimental and clinical significance of these viewpoints receive comparable attention. Prerequisite: PSYC—100.

**PSYC—250. Comparative Psychology 3 credits**

A critical analysis of the several approaches to the study of behavior, including the comparative method. Examples will be drawn from representative levels of human and animal behavior. Students will participate in a project or term paper. Prerequisite: PSYC—100.

**PSYC—255. Sexual Behavior 3 credits**

Exploration of the contributing elements of sexual behavior in a wide range of animal and human situations. Coverage of the psychological controls and implications of sexuality will include group and individual sexual development, norms of behavior, attraction, gender development and identification, birth control, art, and literature. Additional attention will be paid to the involvement of the retarded, the handicapped, and the aged in sexual behavior. A research paper or class presentation will be required. Prerequisite: PSYC—100.

**PSYC—260. Social Psychology 3 credits**

This course is designed to familiarize students with a broad array of classic and current theory and research that are studied primarily by psychologists in the area of social psychology. Students will become familiar with the topics of social psychology and the methods used to study it. Topics include social cognition, social perception, attitudes and attitude change, love, hate (prejudice), conformity, compliance, obedience, and influence. In addition to becoming familiar with theory and research findings, the course emphasizes ways in which the information can be useful to students in their daily lives. Prerequisite: PSYC—100.

**PSYC—265. Introduction to Group Psychology 3 credits**

An introduction to the study of small group interaction through theoretical perspectives and current research. Group life, leadership, and development are discussed in the context of group cohesion, pressures to conform, and allowance for the expression of member differences. This course serves as a general survey in the area of the psychology of groups. Prerequisite: PSYC—100.

**PSYC—285. Topics in Psychology 3 credits**

This course will explore a topic not covered in regular course offerings. Particulars will be announced during the semester previous to that in which the course will be offered. May be taken more than once with different content. An additional fee may be required, depending on the topic offered.

**PSYC—300. Research Methods in Psychology I  
(3 hours lecture, 2 hours laboratory) 4 credits**

This course familiarizes students with basic principles of psychological research through lecture and laboratory experience. Drawing examples from various areas of psychology the course trains students to design and conduct experiments, to evaluate the internal and external validity of studies, and to analyze and interpret data in the context of relevant research literature. Students gain familiarity with technical sources in psychology. The social and ethical aspects of psychological research are also examined. The course features practice regarding the standard elements of format and style used to report the results of psychological investigations. Prerequisites: PSYC—100, ATDV—110. Lab fee.

**PSYC—310. Tests and Measurements 3 credits**

This course is designed to familiarize the student with the rationale of test construction and with the more popular intelligence, achievement, aptitude, interest and personality tests used in clinical, industrial and academic settings. Each student is required to complete a research project utilizing test data. Prerequisites: PSYC—100, ATDV—110.

**PSYC—320. Counseling Theories and Techniques 3 credits**

This course provides students with an in-depth introduction to three prominent counseling theories as well as basic training in some of the tools and techniques that are needed by the entry-level counselor. In light of the demographic makeup of many clinical populations, issues related to working with women and members of minority populations will be heavily emphasized. Because a major goal of the course is to impress students with the importance of grounding counseling practice in sound psychological theory, theoretical issues and practical applications will be interwoven continuously throughout the semester. Prerequisites: PSYC—100, PSYC—220.

**PSYC—325. Childhood and Adolescent Psychopathology  
3 credits**

This course will examine some of the most well-researched and interesting psychological disorders of childhood and adolescence, including clinical descriptions, DSM-IV diagnostic criteria, and theoretical bases for the explanation and treatment of these disorders. Included will be an overview of some psychosocial contributors to psychological problems of childhood, including child sexual and physical abuse. In addition, the course will cover psychotherapeutic interventions with children and adolescents. Prerequisites: PSYC—100, PSYC—220.

**PSYC—340. Human Cognition 3 credits**

This course surveys human mental processes. Cognition involves the ability to store, retrieve, and use knowledge. In-class demonstrations and activities supplement lecture material on attentional processes, memory, imagery, concept formation, language, reasoning, problem-solving, and creativity. The course emphasizes theoretical and experimental aspects of cog-

nitive psychology as well as everyday applications, and relates cognitive processes to other areas of psychology such as development, clinical, social, and neuropsychology. Prerequisite: PSYC—100.

**\*\*\*PSYC—342. Human Intelligence 3 credits**

This course surveys theoretical and applied issues relating to the nature of human intelligence. The history of intelligence testing is covered, with emphasis on its impact on social policy in the United States throughout the 20th century. The question “What is intelligence?” is examined from several viewpoints, including psychometric, information processing, and cross-cultural perspectives. Theory and research regarding hereditary versus environmental influences on intelligence are studied. Finally, prospects for training intelligence through the use of thinking skills programs are evaluated. Prerequisite: PSYC—100, ATDV—110 or equivalent.

**PSYC—345. Drugs and Human Behavior 3 credits**

This course examines the actions of psychoactive drugs on brain and behavior. Drugs of abuse and psychotherapeutic drugs are given about equal emphasis. Drug use as a social problem is examined in historical and current perspectives, covering substances such as narcotics, stimulants, hallucinogens, marijuana, and alcohol. Drugs of abuse are examined with regard to their mechanisms of action, effects on the body and on behavior. Addiction and treatment approaches are examined from multiple perspectives. Medicines for psychological disorders (affective, anxiety, schizophrenia) are studied by examining the mechanisms of drug action on the brain; major and minor tranquilizers and antidepressant medications are covered. Also discussed are “non-drug” drugs caffeine and nicotine. Prerequisites: PSYC—100, and either BIOL—130 or SCDV—210.

**PSYC—350. Physiological Psychology 3 credits**

A course consisting of the physiological and neurological bases for behavior, including the study of the nervous system, endocrine system, sensation and perception, the motor system, and the physiological basis for motivation. Prerequisite: PSYC—100.

**PSYC—355. Sensation and Perception 3 credits**

This course examines how humans take in information through the senses, and the relationship between sensory input and conscious experience. The visual system is examined in detail as a prototype, and examples from other senses (hearing, taste, touch, pain) are included throughout the course. Among topics included are psychophysics, physiological bases of sensation, attention, perception of form, depth, contrast, motion, object constancies, and perceptual development. Lecture material is supplemented by demonstrations designed to allow students to experience many of the perceptual phenomena studied in the course. Prerequisite: PSYC—100.

*\*\*\* Offered when there is sufficient student interest*

**PSYC—365. Industrial and Organizational Psychology 3 credits**

This course introduces students to the range of activities and issues of major concern to contemporary industrial and organizational psychologists. The evolution of the field is viewed in historical perspective. Major topics in personnel psychology include personnel selection and placement, utility models and profitability, employee training and development, and performance appraisal concepts and techniques. The current legal guidelines regarding Equal Employment Opportunity and Affirmative Action are considered as they impact on personnel practice. Topics in organizational psychology include work motivation, job satisfaction and the quality of life, and perspectives on leadership and supervisory role. Prerequisite: PSYC—100. Not open to students who have taken PSYC—110.

**PSYC—370. Intimate Relationships 3 credits**

This course will focus on current, prominent, and clinically applicable theories of intimate relationships. Students will be exposed to the writings of theorists, clinicians, and researchers who have examined relational dynamics and the factors that contribute to relationship satisfaction or dissatisfaction. Included will be an examination of hypothesized and empirically established gender differences in intimate relationship functioning. Clinical applications of theories and case studies will be emphasized. Prerequisite: PSYC—100.

**\*\*\*PSYC—380. History and Systems of Psychology 3 credits**

A study of the intellectual roots of modern psychology, including contributions from philosophy and physiology. Major figures in the history of psychology are discussed as well as their schools of thought: Structuralism, Functionalism, Gestalt Psychology, Behaviorism, and Psychoanalysis. Additional topics included are the history of clinical psychology (views and treatment of mental illness), and the rise of mental testing. Prerequisites: 12 credits in psychology.

**PSYC—400. Research Methods in Psychology II  
(3 hours lecture, 3 hours lab) 3 credits**

This course is designed to extend students' knowledge of research methods beyond PSYC—300 and to give students opportunities to apply their knowledge by conducting original research. Advanced topics in research design and statistical analysis, including the use of computer software, are featured. An oral presentation and formal written report of the investigation are required. Prerequisites: ATDV—110, PSYC—300. Lab fee.

**PSYC—480. Internship in Psychology 3 credits**

Field experience in a setting specializing in research and/or clinical activities in professional psychology may be arranged for Junior and Senior Psychology majors. Interns spend eight hours/week in the field for 14 weeks where they are supervised by agency personnel. Interns are also required to meet weekly with a campus supervisor and to develop a paper appropriate to the placement. Course prerequisites include a minimum of

\*\*\* Offered when there is sufficient student interest

15 credits in Psychology including PSYC—310 (Tests and Measurements) and other courses considered relevant to specific placements. The department also screens applicants based on academic record and judged personal readiness to function effectively in a professional setting. Additional information may be obtained from the department. Interested students must submit a formal application to the department during the first three weeks of the semester preceding the proposed placement.

**PSYC—490. Seminar 3 credits**

Intensive scrutiny of a specific topic in psychology will be undertaken in a small group with emphasis on primary sources. This course may be taken more than once with different content. Prerequisite: 15 credits in psychology or permission of instructor.

**PSYC—499. Independent Study 1 - 3 credits**

A course consisting of individually planned research projects in the area of student's interest under the supervision of a member of the Psychology Department.

## Religious Studies Department

*Head:* Dr. James S. Dalton, *Prof.*

*Prof.:* Dr. Lois K. Daly, Dr. Michael B. Dick, Dr. W. Merle Longwood‡, Dr. Kevin E. Mackin, O.F.M., Dr. Mary Walsh Meany, Dr. Dennis E. Tamburello, O.F.M., Dr. Peter S. Zaas

*Assoc. Prof.:* Dr. Fareed Munir

*Visiting Assistant Prof.:* Dr. Peter C. Ellard

The principal aim of the Religious Studies Department is to help the student at a liberal arts college understand and appreciate the broad role religious experience plays in human culture. The academic investigation of religious experience is a component of a liberal arts education and clearly has an important function at a college sustained by the Franciscan tradition. The Department presents in its courses a critical study and appreciation of the various religious traditions of the world. Through this approach to Religious Studies, the Department provides the student with an opportunity to analyze the ultimate significance of human existence. The Department also seeks to alert the Siena student, regardless of his or her personal religious stance, to the demonstrable importance of religious beliefs in the contemporary political, social, economic, and international arenas. Religious experience and the role of that experience are approached from cross-cultural and multidisciplinary perspectives.

*Requirements for the Major:* 36 credits in Religious Studies, that is, 33 credits beyond the required 3-credit disciplinary course in the core curriculum. The major must take one seminar in any area of Religious Studies, and one course *other than a disciplinary course* in each of the following five areas: historical studies (courses with numbers ending in 01 to 19), scriptural studies (courses with numbers ending in 20 to 39), religious

‡ *Sabbatical leave, Spring 2003*

thought (courses with numbers ending in 40 to 59), ethics (courses with numbers ending in 60 to 79), and world religions (courses with numbers ending between 80 to 99, except in the 400s). The remaining hours may be taken from any courses offered by the Department. Students are, moreover, encouraged to take advantage of religious studies course offerings in the Hudson-Mohawk Association of Colleges.

*Requirements for the Minor:* The minor will consist of 18 credit hours in Religious Studies, which may include up to two core disciplinary courses (RELG—101 through RELG—181). Students must take one course (which may include a seminar) in at least two of the following areas: scriptural studies, historical studies, religious thought, ethics, and world religions. A seminar is required; at least two Religious Studies courses must be completed prior to the seminar. Students who minor in Religious Studies must select an advisor in the Department.

*Requirements for Religious Studies — Education Major:* This program is designed for Religious Studies majors who desire to teach or become coordinators of religious education programs. Students must fulfill all of the requirements for the major in Religious Studies and take the following additional courses in education: the *Education Core* EDUC—210 and EDUC—260 (*with* EDUC—365 *strongly recommended*), EDUC—230 and *the Professional Sequence* (EDUC—481, EDUC—485, EDUC—487, EDUC—488, and EDUC—495, EDUC—496). Students will be awarded a certificate from the Religious Studies and Education Departments attesting to successful completion of the above program.

### Description of Courses

*All students are required to take one course in the Department of Religious Studies (RELG—101 through RELG—181). It is recommended that the course be taken during the freshman or sophomore year. Transfer credits in religious studies may count towards the core requirement.*

Each of the following courses (RELG—101 - RELG—181) will examine the nature and expressions of religious experience from the perspective of a specific field within the discipline of Religious Studies. Any of these courses will satisfy the Religious Studies disciplinary course requirement in the core curriculum. A disciplinary course in Religious Studies must be completed successfully before any other course in the Religious Studies Department can be taken.

#### **RELG—101. Religion in Western Culture 3 credits**

An introduction to religion through an historical examination of western religious communities, the course focuses on Judaism, Christianity, and Islam as they have developed in a variety of forms while retaining certain central traditions. (ATTR: ARTS, CDR)

#### **RELG—121. Introduction to Biblical Studies 3 credits**

An introduction to the Bible, using the tools of contemporary biblical

scholarship, including literary and historical criticism, archaeology, and philology. The course will examine the history of the biblical text and the biblical canon, the relationship between the Bible and its companion literatures, and the ways in which biblical texts are interpreted by different Christian and Jewish religious communities. (ATTR: ARTS, CDR)

**RELG—141. An Introduction to Religious Thought 3 credits**

An examination of religious thought—theology and ethics—in the Western traditions of Judaism, Christianity, and Islam. Using primary texts, particular attention will be given to an exploration of the ways religious individuals and communities understand the divine, human experience, and the world. (ATTR: ARTS, CDR)

**RELG—181. Experiences of the Sacred 3 credits**

An introduction to the discipline of Religious Studies through an examination of the nature of religious experience, its relation to human understandings of the Sacred, and its expressions in human history and culture. These themes will be concretely illustrated through examples drawn from such religious traditions as Buddhism, Christianity, Hinduism, Islam, Judaism and Confucianism. Contemporary forms of religious experience will be emphasized. (ATTR: ARTS, CDR)

**RELG—205. Judaism 3 credits**

This course is a survey of the Jewish historic experience, examining the forces that have shaped the ongoing development of Judaism, its beliefs and practices. Major issues and trends in modern Jewish life will be explored, including the Holocaust and Zionism. This course is sponsored in part by the Jewish Chautauqua Society.

**RELG—210. Islam 3 credits**

The historical origins of Islam, the emergence and development of various strands of religious tradition, and their impact on the modern world. Analysis and historical survey of such key concepts as tawhid (essence of Islam), and of its basic categories for religious life, theology, law, literature, philosophy, and science. In addition attention is paid to the growing presence of Islam in Europe and America. (ATTR: ARTS, CAR, MULT, RSHS)

**RELG—215. Eastern Christianity 3 credits**

A survey of the historical and religious development of those churches which belong in the tradition of Eastern Christianity and the contributions which churches of the Eastern tradition make to Christianity in the contemporary world. (ATTR: ARTS, CAR, RSHS)

**RELG—220. Language for Scripture Study 3 credits**

A study of a language that is essential for scholarly study of the Bible or the Qur'an. This course may be taken for up to four semesters of Arabic, Greek, Hebrew, or other languages (e.g., Latin, Aramaic) related to scripture study.

**RELG—240. Introduction to Christian Theology 3 credits**

A study of the foundations of Christian belief. Basic themes in Christian thought such as the meaning of human existence, the experience of God, the significance of evil, and the community as focus of God's activity will be explored in terms of the person and work of Jesus. (ATTR: ARTS, CAR, RSRT)

**RELG—250. Women and Religion 3 credits**

This course will focus on the varieties of women's religious experience. Various descriptions of the reality, distinctiveness, and value of women's religious experience as well as the role of women in institutional forms of religion will be analyzed. Readings will be drawn from the major religions of the world, with focus on the western religious traditions. (CORE: AR)

**RELG—260. Religion and Moral Decision 3 credits**

An examination of moral experience, moral character, and moral discernment, as well as an analysis of the principles and procedures used in the Western religious traditions to adjudicate crucial moral issues such as: sexual morality, medical ethics, race relations, and moral judgements about warfare. (ATTR: ARTS, CAR, ISP, RSET)

**RELG—270. Religion and the Environment 3 credits**

An examination of the stances and attitudes toward nature and the environment taken by several religious communities. The course will assist students to develop a constructive assessment of the theological and ethical contributions religious communities can make to environmental studies. (Same as ENVA—230.) (ATTR: ARTS, CAR, RSET)

**RELG—280. World Religions 3 credits**

A survey of the religious experiences and traditions of selected Non-Western peoples. The traditions which will be examined include the religions of native peoples, Buddhism, Hinduism, and traditions of China and Japan. Emphasis will be placed on the living and dynamic nature of these traditions in the past and their expressions in the contemporary world. (ATTR: ARTS, CAR, RSWR)

**RELG—300. Topics in Religious Studies**

A study of a specialized topic in one of the fields of Religious Studies, which include historical studies, scriptural studies, religious thought (theology and ethics), and world religions. The selected subject matter is announced in the schedule of course offerings in semesters when it is offered. Students may repeat this course for credit provided the selected subject matter has not been previously taken for credit. An additional fee may be charged depending on the topic offered.

**RELG—301. The Reformation of Christendom 3 credits**

The reform of western Christianity in the sixteenth and seventeenth centuries as Europe moved from the medieval to the modern world. Special attention will be paid to significant figures such as Luther, Calvin, and Ignatius Loyola. (ATTR: ARTS, CAR, RSHS)

**RELG—305. Religion in America 3 credits**

An examination of certain religious traditions as ways of understanding the development and practice of religion in America. The central focus is on the interaction between religion and American culture. Using a historical approach, the course examines mainstream religious traditions such as Judaism, Christianity, and Islam, as well as non-mainstream religious traditions, such as African American Religion and American Buddhism. (ATTR: AMSC, ARTS, CAR, RSHS)

**RELG—310. The American Evangelical Tradition 3 credits**

The development and transformations of Evangelical Pietism and its impact on American life. Emphasis will be placed on revivalism as the central theme of this tradition in America. (ATTR: AMSC, ARTS, CAR, RSHS)

**RELG—315. American Catholicism 3 credits**

This course examines the historical backgrounds and present situation of the American Catholic community placing major emphasis on how this community has been formed by the unique American historical experience while, at the same time, contributing to this experience. Attention will be paid to issues confronting this community in the twentieth century, e.g., the role of women, minorities and the native American, questions of war and peace. (ATTR: AMSC, ARTS, CAR, RSHS)

**RELG—320. Biblical Archaeology 3 credits**

An examination of the ancient cultures of Palestine from Neolithic times to the early days of the Christian church. RELG—320 studies both the material culture of Palestine as uncovered in excavations and also the nature (and limits) of new archaeological methods. Biblical Archaeology also probes the relationship between text (the Bible and ancient inscriptions) and these material remains. The course will investigate the religion of Israel as can be deduced from excavations but will place that religion in the broader context of the entire culture of Israel and of the ancient Near East. (ATTR: ARTS, CAH, RSSC)

**RELG—324. Introduction to the Old Testament 3 credits**

A comprehensive study of the literatures of the Old Testament/Hebrew Bible and the religious, historical, sociological, and economic factors which affected both their writing and their eventual acceptance as canonical literature by Judaism and Christianity. The course will expose the students to samples of all the main literary genres of the Old Testament and will study them using most of the contemporary biblical methodologies. The course will emphasize that the Hebrew Bible emerged on the broader stage of the ancient Near East between the high cultures of Mesopotamia and Egypt. It will also approach many crucial topics in the Old Testament such as the evolution of biblical monotheism, Israelite religion(s), the emergence of Israel in Canaan, Creation and Covenant. Prerequisite: RELG—121 or permission of instructor. (ATTR: ARTS, CAR)

**RELG—330. Jesus, the Gospels, and Christian Origins 3 credits**

A study of the life and teachings of Jesus and of the community founded in his name, with special attention to the available historical sources; a literary, historical, and theological examination of the four gospels. (ATTR: ARTS, CAR, RSSC)

**RELG—335. Paul and the Rise of the Christian Church 3 credits**

An examination of the person and teachings of Paul as these are reflected in his letters, with consideration of how Paul's contributions were developed by subsequent generations of Christians in such works as the Pastoral Epistles, the Book of Acts, and other early Christian literature. (ATTR: ARTS, CAR, RSSC)

**RELG—340. The Modern Search for Jesus 3 credits**

A study of the person and work of Jesus in the light of twentieth century thought. Attention will be given to the debate concerning the historical Jesus and the Christ of faith, the Christological formulations of the Christian scriptures and the early Christian community, and the place of Jesus in the thought of such theologians as Rahner, Bultmann, Barth, and Tillich. (ATTR: ARTS, CAR, RSRT)

**RELG—350. Sacramental Theology 3 credits**

An investigation of the biblical, historical, psychological, and sociological roots of liturgy emphasizing the place of ritual in human and Christian personal development. (ATTR: ARTS, CAR, RSRT)

**RELG—355. The Catholic Tradition 3 credits**

An historical and systematic examination of key elements of the Catholic tradition, e.g., tradition, sacrament, ministry, papacy, and spirituality. Contemporary issues such as the relationship between Catholicism and politics and the dialogue between Catholicism and world religions will also be explored. (ATTR: ARTS, CAR, RSRT)

**RELG—360. Morals and Medicine 3 credits**

An examination of problems in medical ethics that are particularly urgent at the present time, such as: models for health care, human experimentation, organ transplantation, care for the dying, euthanasia, genetic engineering, artificial insemination, sterilization, behavior control, allocation of scarce medical resources, and health care delivery. Readings include a diversity of theologians, philosophers, social scientists, lawyers, historians, scientists, and physicians. Prerequisite: BIOL—110 and BIOL—111 or BIOL—130 or BIOL—170 or permission of instructor. (ATTR: ARTS, CAR, HSMR, ISP, RSET)

**RELG—365. Religion, Values, and Business 3 credits**

A critical examination of the ways in which values are expressed in business decisions within the religious and cultural contexts which shape these values. Theories of ethics and social responsibility are examined in relation to issues such as environmental concerns, hiring practices, adver-

tising, consumer demands, and related issues that require self-regulation or government-imposed regulation of corporations. (ATTR: ARTS, CAR, ISP, RSET)

**RELG—370. Religion, Morality, and Politics 3 credits**

An examination of the relation between ethics and politics as interpreted by selected, representative religious thinkers. (ATTR: ARTS, CAR, ISP, RSET)

**RELG—375. Modern Men, Meaning, and Morality 3 credits**

A study of men's experience as gendered persons, rather than as universal human beings, from the perspectives of men's studies and religious ethics. The course will examine gender relations and critical theory as well as specific topics related to men's lives, such as: growing up male, seasons of men's lives, friends and lovers, sexuality and marriage, careers and fatherhood, politics and war, and new spiritual and social visions. (ATTR: ARTS, CAR, RSET, WSTU)

**RELG—380. The Religions of Native Peoples 3 credits**

An overview of the religious traditions of various native peoples such as Native Americans, Africans and Pacific Islanders. The role of religious experience in the cultural, historical and social worlds of these peoples is considered in their historical and modern settings. The course will pay special attention to the contributions of these peoples to the religious and cultural worlds of modern times. (ATTR: ARTS, CAR, M CCP, RSWR)

**RELG—385. Buddhist Traditions 3 credits**

A survey of the history, development and structure of the religious traditions of Buddhism including the Theravada, Mahayana, Tibetan and Zen traditions. The religious experience of Buddhists and its impact on the cultures of India, Central Asia, China and Japan are examined. In addition attention is paid to the growing presence of Buddhism in Europe and the United States. (ATTR: ARTS, CAR, MULT, RSWR)

**RELG—400. Religious Studies Field Experience 3 credits**

As an academically oriented field experience, this course offers three semester hours credit for an intensive two- to two-and-a-half week study program in selected geographical areas to study aspects of religion from the perspectives of the subdisciplines of historical studies, religious thought, ethics, or world religions, preceded by orientation lectures, and including supervised research into one aspect of the field study. Examples of topics that will be explored at different times include: Religion and the Peace Process in Northern Ireland, The World of the Protestant Reformation, The Relationship between African Religion and the African American Community, and Franciscan Italy. Travel costs are paid by the student. The cost varies each semester. (ATTR: ARTS, CAR)



**RELG—401. The Franciscan Tradition 3 credits**

An examination of Siena's founding tradition, based on the lives and writings of St. Francis and St. Clare, an analysis of how the Franciscan tradition has developed through the centuries, and of how it is expressed in the twentieth century, especially at Siena. (ATTR: ARTS, CAR, FSRS, RSHS)

**RELG—405. Judaism and Modernity 3 credits**

An examination of how Jews and Judaism have responded to the crisis of modernity. Topics to be examined include the effects of the breakdown of the European Ghetto; the birth of Reform, Conservative, Reconstructionist, and Neo-orthodox Judaism; the Haskalah movement; Zionism; 20th century Jewish thought; post-Holocaust theology; contemporary trends in Judaism. (ATTR: ARTS, RSHS)

**RELG—420. Biblical Study Tour 3 credits**

An academically oriented study of biblical lands, this specially designed course offers three semester hours credit for an intense two-week study program in the lands of the Bible, preceded by orientation lectures, and followed by supervised research into one aspect of the field tour. Travel costs paid by student. Cost varies each semester. (ATTR: ARTS, RSRT)

**RELG—440. The Protestant Tradition 3 credits**

A study of the beginnings of Protestant Christianity, its development in the eighteenth and nineteenth centuries, and the basic thought of representative twentieth century theologians such as Karl Barth, Dietrich Bonhoeffer, Rudolf Bultmann, Reinhold Niebuhr, and Paul Tillich.

**RELG—445. Liberation Theology 3 credits**

This course explores the religious and theological dimensions of liberation theology. Attention will be focused on the claims about God's activity, human nature, and the Christian life made by the advocates of liberation. Recent texts by Black, feminist, gay, and Latin American theologians will form the context for class discussions.

**RELG—480. Internship in Religious Studies 3 credits**

This course provides field experience in religiously oriented work and programs such as those carried out in a pastoral care department, a religious service agency, a campus ministry, or a consultation center. The internship will provide for a minimum of 120 hours during the semester on the basis of a mutually satisfactory Learning Agreement agreed to by both the Department Faculty Internship Advisor and the student in consultation with the Field Supervisor. The student will be graded by Siena's Internship Faculty Advisor in the Religious Studies Department with substantial input from the Internship Supervisor in the field. Internships are restricted to junior and senior students. Prerequisite: 12 credits in Religious Studies and permission of the Department Head.

**RELG—490. Seminar: Topics in Religious Studies 3 credits**

Consideration of some topic in Religious Studies selected on the basis of faculty and student interest. Designed for majors and those with advance preparation in Religious Studies. May be taken more than once with different content. Consult Fall and Spring schedules for specific topics.

**RELG—499. Independent Study 1 - 3 credits**

A qualified student may pursue a particular topic in Religious Studies by means of independent research, an extensive paper, and periodic discussions with a member of the department. The student must have the approval of the instructor and the Department.

## Social Work Department

*Head:* Ms. Donna McIntosh, *Assoc. Prof.*

*Prof.:* Mr. Robert Rivas†, Ms. Diane Strock-Lynskey

*Asst. Prof.:* Dr. Carla J. Sofka

*Administrative Coordinator:* Mr. Joe Zoske

Accredited by the Council on Social Work Education, the primary mission of the Social Work Program is to prepare students for entry-level professional Generalist Baccalaureate Social Work Practice with a diverse range of systems including individuals, families, groups, communities and organizations. The Social Work Department strives to achieve the following educational goals:

1. To ensure that students develop a professional understanding of, and ability to apply, the knowledge and skills needed to effectively engage in generalist social work practice at the baccalaureate level.

† *Sabbatical leave, Fall 2002*

2. To cultivate critical thinking and professional competence among students.
3. To develop students' commitment to the value of diversity and the advancement of social and economic justice.
4. To instill in students a strong sense of professional identity, along with a commitment to the pursuit of professional development, either through graduate study and/or employment in social work or another human-services related field.
5. To develop and maintain a well-integrated and efficiently organized program structure necessary to ensure a high quality and professional social work education experience.

*Admissions into the Social Work Program:* Applicants are considered for admission into the Social Work Program based on each of the following criteria:

- Acceptance of admission to the College.
- Completion of Social Work Admissions materials — written application and essay, writing sample from a non-social work course, and two letters of recommendation.
- Completion of a personal interview with Social Work faculty
- Academic Proficiency — recommended minimum of an overall Grade Point Average of 2.75
- Writing Proficiency — ability to demonstrate effective writing skills through the required written essay and writing sample.

*Standard Admissions Process for Current Siena Students:* Any student who wishes to do so may declare Social Work as her/his major at any time. However, students who are interested in being formally admitted into the Social Work Program must complete the Social Work admissions process. Sophomore students currently enrolled at Siena who have declared Social Work as their major, as well as other majors who are interested in applying to the Social Work Program, are strongly encouraged to submit their application materials for admission by **no earlier** than the beginning of the second semester of Sophomore year and **no later** than the end of the summer prior to the first semester of Junior Year.

*Standard Admissions Process for Transfer Students:* Transfer students are encouraged to apply to the Social Work Program at the same time they apply for admission to the College. It should be noted that application and admission to the College is a **separate** process from application and admission to the Social Work Program. It is strongly recommended that transfer students who wish to apply to the Social Work Program consider the following:

- Students who apply to the College and the Social Work Program by **December** of a given fall semester will be considered for admission to the College for the **spring semester** of that academic year and for admission into the Social Work Program for the **fall semester** of the next academic year.

- Students who apply to the College by **June** of each year will be considered for admission to the College for the **fall semester** of the next upcoming academic year upon receipt of the required admissions materials. Students who wish to receive a timely decision regarding their admission to the Social Work Program for the upcoming **fall semester**, must submit their application materials for the Social Work Program by no later than **July 15** of each summer.

*Early Admission Process for Transfer Students:* This process is designed to assist transfer students who are interested in receiving an early decision about their admission status to the College **and** the Social Work Program and who are committed to meeting the required deadlines for this process. Please note that transfer students who do not wish to complete the early decision admissions process but who wish to be considered for regular admission to the College may still apply to the College by **June 1** of each year.

***The early admission process offers the following advantages to transfer students:***

- Students who apply to the College by **February 15** of each academic year will be reviewed for admission to the College and will be notified of her/his admission to the College by **March 1** of each academic year upon receipt of all necessary admissions materials.
- Transfer students accepted through the College Early Admissions Transfer process will have the opportunity to receive an early estimate of financial aid upon admission to the College **within 48 hours** after submitting the required documentation to the College Financial Aid Office.
- Transfer students who have applied to the College by **February 15** and who complete their separate application to the Social Work Program by **March 1** will be granted an early admission interview by the Social Work Program and will be notified of her/his admission status with the Program by **April 1** of each academic year.
- Students who are admitted and confirm their acceptance to the College **and** the Social Work Program by **April 1** will have the opportunity to register with students currently on campus during the standard registration time for fall classes. Registration for the fall semester is typically scheduled during the month of April.

To obtain further information regarding materials that must be submitted in order to be considered for the Early Admissions Transfer Student Track, please contact the Coordinator of Administrative Services, Social Work Program, at 518-783-4123.

*Early Admissions Process for High School Students:* High school students who have a declared interest in Social Work as a major and have applied and been admitted to the College may also apply to the High School/Early Admission Track. To be eligible for this track, students must have:

- An academic average of 90 or above as well as a combined SAT score of 1130 or better and have been accepted to the College as well as identified as a candidate for the Presidential Scholar Program.
- Enrollment in and/or completion of 20 academic units of English, math, social

studies, science, or foreign language high school courses (Honors or AP).

- Demonstrated interest in the helping professions through involvement in some type of service and/or volunteer work of a human-services nature.
- Demonstrated leadership potential through involvement in community/extracurricular activities.

To be considered for admission to the High School/Early Admission Track, students must complete and submit either the additional, designated sections of the College's application form that pertain to Social Work and/or the Social Work application form as well as two letters of recommendation, a writing sample (paper/project of some type — if possible, related to a social/political issue), and an in-person interview with two department faculty. Interested candidates may apply up to the beginning of the **fall semester** of their first year. If the Program determines that a student may not be eligible for the High School/Early Admissions Track, the student may still remain a Social Work major and complete the Standard Admissions process during the spring of their sophomore year. Once admitted to this track, students must demonstrate a sustained ability to maintain the minimum required overall G.P.A. of 2.75 or better as well as academic and non-academic performance that is consistent with what is outlined in the Social Work Program Handbook section of "Criteria for Advancement."

To obtain further information regarding materials that must be submitted in order to be considered for the High School/Early Admissions Track, please contact the Coordinator of Administrative Services, Social Work Program, at 518-783-4123.

*Eligibility for Advanced Standing:* Students who successfully complete all of the requirements for the Social Work Program and their Baccalaureate Degree may apply for consideration for Advanced Standing to those M.S.W. degree programs that offer this status. If granted advanced standing, students could be awarded anywhere from 15-33 credits towards their M.S.W. degree. The Social Work Program has also developed affiliation agreements with some M.S.W. degree programs. These agreements provide opportunities for graduating Social Work seniors to receive early admissions decisions and scholarship assistance. Students must adhere to the required deadlines in order to qualify for these benefits. For more information regarding these affiliation agreements, please see the "Siena College Affiliation Agreements" section of this catalog.

*Social Work Foundation/Course Requirements for the Major:* In addition to meeting all College Core requirements, students must complete 34 credits in the Social Work Foundation curriculum in the appropriate sequence as follows: 1st year—SWRK—100 Introduction to Social Welfare and Social Work; 2nd year—SWRK—200 Interpersonal Communication Skills; 3rd year—SWRK—300 Human Behavior and the Social Environment I, SWRK—301 Social Work Service Requirement or (with permission from the Social Work Program) PCST—480 Internship in Peace Studies or

(with permission from the Social Work Program) INSA—480 Internship in Franciscan Service and Advocacy, and SWRK—310 Human Behavior and the Social Environment I and II, SWRK—320 Social Work Practice Theory I; 4th year—SWRK—400 Social Work Practice Theory II, SWRK—410 and SWRK—420 Basic and Advanced Field Instruction, SWRK—430 Social Work Research, SWRK—440 Social Welfare Policy and Services and SWRK—491 Child Abuse, Neglect and Maltreatment/Mandated Reporting Workshop. SWRK—491 must be completed in conjunction with SWRK—410.

*Other Support Courses Required for the Major:* In addition to meeting all College Core requirements **and** Social Work Foundation course requirements, students must complete the following support courses: General Psychology (PSYC—100) **and** Abnormal Psychology (PSYC—220); General Sociology (SOC1—101); American Minorities (SOC1— 210) **or** Perspectives on Women's and Multicultural Studies (ATDV—210); Human Biology (BIOL—025); Principles of Economics (ECON—101/Micro) **or** Principles of Economics (Econ—102/Macro); Introduction to American Politics (POSC—100 **or** State and Local Government (POSC—205); **and** Statistics for Social Sciences (ATDV—110).

*Social Work Service and Field Experience Requirements:* In addition to fulfilling all academic course requirements, students are required to complete a service requirement in their junior year and a field experience requirement in their senior year. SWRK—301 Social Work Service Requirement includes the completion of 50 service hours in the fall semester of the junior year. This requirement must be completed in conjunction with SWRK—300 Human Behavior and the Social Environment I. All service sites must be approved in advance by the Social Work Program. With permission of the Social Work Program, students may substitute PCST—480 Peace Studies Internship **or** INSA—480 Internship in Franciscan Service and Advocacy. Students complete a minimum of 400 hours of field experience during their senior year. SWRK—410 Basic Field Education requires the completion of 200 field hours during the fall semester of the senior year. SWRK—420 Advanced Field Education requires the completion of an additional 200 field hours during the spring semester of the senior year. Field experience sites must be approved in advance by the Social Work Program. Academic credit for life experience and previous work experience is not given by the Social Work Program, in whole or part, in lieu of either the service requirement or field experience requirement or for courses in the foundation areas specified by the Council on Social Work Education.

*International Study Policy:* Due to the sequential nature of the program's curriculum and the need for students to complete the volunteer and field work requirements, students who wish to complete a semester of study abroad must do so during their Sophomore year and/or prior to beginning the Fall semester of their Junior year.

*Approval for Entry into the Field Experience:* Because of the nature of the work that students engage in with clients in field instruction settings, students who have achieved senior status who wish to complete their field work during their Senior year must be reviewed by the Social Work Department prior to the beginning of this year to determine their readiness for advancement into the field experience component of the program. In order to be approved by the department for advancement into field work, students must meet all advancement requirements as outlined in the Department's Student Handbook and Field Education Manual including the attainment and/or maintenance of a minimum G.P.A. of 2.75.

*Withdrawal and Readmissions Policy:* Students admitted into the Social Work Program who withdraw from the college prior to completing all Social Work requirements must reapply to the Social Work Program if they wish to complete the program at Siena at a later date.

### Description of Courses

*Courses which have a (+) next to them are specialized professional courses which are restricted to students who have been admitted into the Social Work Program.*

### Required Courses

#### **SWRK—100. Introduction to Social Welfare and Social Work 3 credits**

This course provides a beginning knowledge base and methodology for analysis of social welfare and social work issues and problems and the social policies, programs and services designed to address these issues and problems. An introduction to the profession of social work and overview of the Holistic, Ecological, Systems and Strengths/Capacities perspectives on the human condition is also provided. (ATTR: ARTS, CAS, FSSW)

#### **SWRK—200. Interpersonal Communication Skills 3 credits**

This course is an introduction to the basic methods and techniques necessary for developing and enhancing effective interpersonal communication skills. Particular emphasis is placed on the Social Work interview and the techniques used to engage an individual in the helping process. Students will have the opportunity to actively participate in the learning process through in-class exercises, role-plays, and videotaped presentations. A section of this course is offered to Social Work majors only. Enrollment in this section is by permission of the Social Work Department. A section of this course is also offered to non-social work majors in the fall of each academic year. A section of this course is also offered in the spring semester of each academic year to students enrolled in the Siena/Albany Medical College Program in Science, Humanities, and Medicine.

**SWRK—300. Human Behavior and the Social Environment I  
3 credits +**

This course provides content about traditional and alternative theories and paradigms pertaining to the individual as a human system as well as the other systems that the individual lives in the interacts with (families, groups, communities and organization.) Utilizing the Human Behavior Assessment Framework, an integrated body of social work knowledge and theory is presented that provides an understanding of the bio-psycho-social-cultural-spiritual dimensions of human behavior. The ways in which diversity enriches and influences the interactions within and between systems as well as the role that social and/or economic conditions may play in deterring or maintaining the well-being of systems and in creating at-risk potential for discrimination, oppression, and social and economic injustice is also examined. Strong emphasis is placed on how to apply course content to client/consumer situations. The Social Work Service Requirement is also completed in conjunction with this course. (See source description for SWRK—301 for further information) (ATTR: ARTS)

**SWRK—301. Social Work Service Requirement 1 credit +**

This requirement provides Social Work majors with the opportunity to learn about the Social Work profession through becoming involved in working in a human service setting. Students engage in the provision of services to individuals and explore the interrelationship between the service organization, the community, and the client populations that the service organization seeks to serve. Particular emphasis is placed on understanding the role of diversity as well as the promotion of social and economic justice within the context of a service setting. Enrollment is restricted to Junior Social Work majors who have been granted admission to the Social Work Program who have not completed an Associates Degree in Human Services. This requirement must be completed in the fall semester only in conjunction with SWRK—300 Human Behavior and The Social Environment I. Service sites must be approved in advance by the Social Work Program. (ATTR: ARTS)

**SWRK—310. Human Behavior and the Social Environment II  
3 credits +**

This course provides content on traditional and alternative theories pertaining to human growth and development and applies these theories to human behavior within the context of the social environment. Building upon the major components of the Human Behavior Assessment Framework presented in HBSE I and the remainder of the Framework that is presented in this course, a knowledge base is developed that provides the basis for a comprehensive understanding of how to assess the role that attributes such as gender, age, race, color, ethnicity, culture, social class, sexual orientation, socioeconomic status and disability, in interaction with systems of various sizes, may play in shaping individual life experience as well as serve to promote or deter individual persons in maintaining and achiev-

ing optimal health and well-being throughout the life course. Strong emphasis is placed on how to apply course content to client/consumer situations. Prerequisites: SWRK—300, SWRK—301, and BIOL—025.

**SWRK—320. Social Work Practice Theory I 3 credits +**

This course provides an overview of the knowledge, skills, values and ethics of Baccalaureate Generalist Social Work Practice with individuals and families. Course content focuses on the stages of the General Problem Solving Methodology including engagement, data collection, assessment, intervention, evaluation, and termination. Emphasis is placed on ways in which the various aspects of this methodology may be utilized when working with people from diverse backgrounds. Prerequisites: SWRK—100, 200, 300, and 301.

**SWRK—400. Social Work Practice Theory II  
(3 hours lecture, 1 hour lab) 4 credits +**

This course applies practice knowledge, values, ethics, and skills of Baccalaureate Generalist Practice, within the context of the Generalist Problem Solving Methodology, to working with groups, communities, and organizations. Emphasis is placed on the ways in which diversity may influence approaches to and skills in working with these systems as well as on practice approaches and skills that may be used to enhance the well-being as well as ameliorate the environmental conditions that adversely affect such systems. The role of Social Work practitioner, as well as Social Work values and ethics, are discussed in relation to practice situations and dilemmas that may arise when working with mezzo/macro systems. Laboratory required of one hour per week throughout the semester. Prerequisites: SWRK—200, 300, 301, 310 and 320. (ATTR: ARTS)

**SWRK—410. Basic Field Education 4 credits +**

This course consists of a 200-hour field experience within an approved, supervised social service organization which prepares students for Baccalaureate Generalist Social Work Practice, and a two-hour, weekly integrative seminar held on campus in which students explore practice and professional development issues related to academic and community-based field experience learning. A one-time two-hour lab workshop (SWRK—491-see course description) is also included. Prerequisites: SWRK—100, 200, 300, 301, 310, and 320. (ATTR: ARTS)

**SWRK—420. Advanced Field Education 5 credits +**

This second course in field education emphasizes further development of Baccalaureate Generalist Social Work Practice and consists of an additional 200 hours within a previously approved, supervised social service organization and a continuation of a two-hour, weekly integrative seminar held on campus in which students further explore practice and professional development concerns. Prerequisite: SWRK—410.

**SWRK—430. Social Work Research 3 credits +**

Provision of knowledge and skills in research methodologies used by social workers, with particular emphasis on developing research skills at the baccalaureate generalist practice level. Content covers values and ethics, critical thinking, culturally competent research methods with populations at risk, the scientific methodology of research as well as practice and program evaluation techniques. Prerequisite: ATDV—110. (ATTR: ARTS)

**SWRK—440. Social Welfare Policy and Services 3 credits +**

A systematic analysis of a range of social welfare policies and programs and their impact on individuals, families, groups, organizations and communities. Through the use of analytical and experiential learning, emphasis is placed on developing policy practice skills, as part of Generalist practice, to promote social and economic justice, equality, equity and human rights within the context of political, legislative, and community processes. Prerequisites: SWRK—100, 300, and 400; POSC—100 and ECON—101 or 102.

**SWRK—491. Child Abuse, Neglect, and Maltreatment/Mandated Reporting Workshop 0 credits**

This two-hour lab/workshop is designed to provide students with knowledge of: the definition of child abuse, maltreatment, and neglect according to NYS Family Court and Social Services Law, situations that require mandated reporting, legal responsibilities that social work students and practitioners have for reporting, legal protections afforded reporters, consequences for failing to report, proper procedures for making a report of suspected child abuse, maltreatment or neglect, actions mandated reporters may take to protect a child in addition to filing a report, characteristics of abusive parents and caretakers, physical and behavioral indicators of abuse (physical, emotional, sexual), maltreatment and neglect, and general principles related to interviewing child victims. A fee is required for this workshop. Co-requisite: SWRK—410. (ATTR: ARTS)

**Elective Courses**

**\*\*\*SWRK—450. Social Work Practice: Treatment Methods 3 credits**

An analysis of the major modalities of social work treatment with an emphasis on their present place in social work practice, their implications for practice, and their challenges in research. The course focuses on the importance of various conceptual systems and their interrelatedness.

**SWRK—452. Social Work Practice: Drugs and Alcohol 3 credits**

This course provides a review of the fundamental aspects of alcoholism and drug abuse in contemporary society, particularly as they relate to social work practice. Areas to be covered include: a historical perspective of intoxicants; the psychopharmacology/biochemistry of alcohol and substance abuse; models for understanding addiction; family dynamics related to chemical dependency; treatment aspects of alcoholism and chemical

\*\*\* Offered when there is sufficient student interest

dependency; and a history of legislation and overview of policy and legal issues pertaining to alcoholism and substance abuse. (ATTR: ARTS, HSMR, JMN)

**SWRK—453. Social Work Practice: Grief, Loss, Death, and The Dying Process 3 credits**

Discussion of social work generalist practice as it relates to responding effectively to grief, dying and death in contemporary society. Emphasis is placed on the grieving process; the impact of culture on mourning rituals; death and burial rites; coping with sudden death; terminal illness; talking with children about death; widowhood; and euthanasia. (Course limited to juniors and seniors). (ATTR: ARTS, HSMR)

**\*\*\*SWRK—466. Topics in Social Work 3 credits**

A special topic will be selected for intensive study and discussion. Open to majors and other students with permission of the instructor. Consult fall and spring schedules for specific information. May be taken more than once with different content. An additional fee may be required, depending on the topic offered.

**SWRK—499. Independent Study in Social Work 1 - 3 credits**

Qualified students are encouraged to undertake an independent study project in their junior or senior year. Such a project requires the approval of the faculty member supervising the project and the department head. The student qualifies for his/her grade and credits by the submission of a satisfactory written report. When appropriate, an examination may be required. Students are limited to no more than one independent study project in any academic year.

## Sociology Department

*Head:* Dr. Edward J. McGlynn, *Prof.*

*Prof.:* Dr. Janet M. Alger, Dr. Capistran J. Hanlon, O.F.M., Dr. Paul T. Murray

*Assoc. Prof.:* Dr. Duane A. Matcha

*Visiting Instructor:* Ms. Ann Marie Popp

The Sociology major prepares students to observe critically the social world and to understand sociological explanations of the structure and processes of society. It especially fosters a grasp of social justice issues and a sensitivity to social diversity. In addition, students acquire marketable skills as they learn modern methods of research and data analysis. The program emphasizes preparation for graduate-professional studies in sociology, mass communications, criminal justice, law, health care, social work, and urban planning. Prospective students should see a department advisor about which courses most directly apply to their area of interest.

In memory of Ann A. Kiskis, the Kiskis Foundation established the Chair of Human Relations, a field concerned with perpetuating understanding and compassion. The Chair is held by Capistran J. Hanlon, O.F.M.

\*\*\* Offered when there is sufficient student interest

*Requirements for the Major:* 36 hours of Sociology, including General Sociology, Research Methods I and II, and Classical Sociological Theory; ATDV—110 Statistics for Social Science; and one Computer Science course from the following: CSIS—010, 030, and 110. Majors may take a maximum of nine hours in courses from the range SOCI—101 through 190, and must take at least six hours from among the following: SOCI—240, 300, 320, 330, 350, 370, 380. They must also take six hours from SOCI—400, 410, 490.

*Requirements for the Minor:* Minor will consist of at least six courses (18 credit hours) in Sociology, which must include SOCI—101 (General Sociology), four advanced courses (12 credit hours) from SOCI—201 through 499, and a sixth course (3 credit hours) at any level.

*Departmental Colloquia:* All Sociology majors are expected to attend at least one each of four colloquia on career and research topics offered annually by the department.

*Education Certification:* Sociology majors seeking provisional teaching certification (grades 7-12) in Social Studies should consult the Education Department head for specific requirements in Education. They must meet all the requirements listed above, except that they are only obliged to take a total of 30 hours in Sociology. The following are also required: Three hours in Economics, three hours in Political Science, and 21 hours in History, including the College core requirement of three hours in History. The program must include six hours in each of three areas: European History (e.g., HIST—101 or 190, 201, 202); United States History (e.g., HIST—203, 204); non-Western History, as well as three hours in NY State history (HIST—327). Finally, six hours of college language other than English are required. The Sociology Department requires a minimum 2.75 GPA for Sociology majors seeking certification in Education.

## Description of Courses

*There are no prerequisites for SOCI—101 through SOCI—190.*

### **SOCI—101. General Sociology 3 credits**

An introduction to the basic principles and perspectives of sociology, with some specific emphasis on American society. (ATTR: ARTS, CAS)

### **SOCI—120. Current Social Problems in America 3 credits**

The study of those socially constructed institutions, beliefs, and conditions that result in differential outcomes within various populations in the United States. The course employs appropriate sociological theories and methodologies as it addresses not only the cause of social problems, but also their interrelationship with other problems as well as possible solutions. In an effort to better understand these problems, this process will employ a cross-cultural context. (ATTR: AMSB, ARTS, FSSY, LSRG)

**SOCI—130. The Family 3 credits**

An attempt to understand the present situation and possible future of this basic institution. Analysis will center on crucial social functions the family provides and the current dilemma revolving around these functions. Focus shall be placed on male-female roles in the American value-complex, institutional alternatives to the family, women's liberation, and other current issues. (ATTR: AMSB, ARTS, LSRG)

**SOCI—140. Cultural Anthropology 3 credits**

A study of humankind, its primate background, evolution, and earliest appearance. The meaning of culture, its growth and development with a cross-cultural investigation of family type, kinship organization, life cycle, subsistence pattern, human ecology, and cultural change will be pursued. (ATTR: ARTS, CAS, LSRG, MCCP)

**SOCI—150. American Indians 3 credits**

A study of the impact of European intrusion on the history and culture of the American Indians. Consideration will be given to the relationship between the Indian peoples and the United States government and the consequences of its policies as well as the Indians' efforts to maintain their cultural identity.

**SOCI—160. Environment and Society 3 credits**

An introduction to the social aspects of environmental problems and solutions. It examines the ways in which social institutions and lifestyles lead to environmental deterioration. It also looks at the consequences of environmental decay for human health and well-being. It examines efforts to preserve the natural environment through the Environmental Movement, drives to save particular ecosystems, and changes in thinking about environmental issues. Same as ENVA—140.

**SOCI—170. The Sociology of Leisure and Popular Culture  
3 credits**

This course will explore the leisure pursuits of contemporary Americans in an effort to understand the social forces behind their nature, range, and relationship to the realm of work. The course will include an examination of the entertainment function of the mass media, but it will also look at forms of leisure that involve direct participation. Thus, some topics that will be examined are college and spectator sports, television fiction shows such as sit-coms, the comics and comix, popular music and the role of travel in the modern world. (ATTR: ARTS, LSRG)

**SOCI—180. Peoples of Africa 3 credits**

This course surveys the cultures and societies of sub-Saharan Africa. It covers major institutional sectors (such as the family) and social processes (such as urbanization). It will contrast these in traditional and contemporary Africa and examine the internal and external forces of social change in these societies.

**SOCI—190. Introduction to Criminal Justice 3 credits**

This course is intended as a survey of the Criminal Justice system in the United States. In this course the student will learn about theoretical explanations of crime, its correlates, how those who are accused of criminal behavior are treated within the criminal justice system, their constitutional rights as well as the roles of those involved in the criminal justice system. This course is required of all Criminal Justice Minors. (ATTR: ARTS, LSRG)

*SOCI—101 is a prerequisite for all courses above SOCI—190.*

**SOCI—201. Research Methods I 3 credits**

An introduction to the processes and techniques of social research, including instruction in hypothesis formation, measurement, questionnaire construction, sampling, survey research and participant observation. A proposal which demonstrates a student's ability to construct a research design is required. Prerequisite: SOCI—101. (ATTR: ARTS)

**SOCI—202. Research Methods II 3 credits**

A continuation of the study of the processes and techniques of social research, focusing primarily on the collection and analysis of research data. Students will be required to conduct a research project of their own design and to use a computerized statistical package to analyze their results. Prerequisites: SOCI—101, ATDV—110, SOCI—201, plus a satisfactory research proposal *before* enrolling in the course. Lab fee.

**SOCI—210. American Minorities 3 credits**

A critical look at the relation of minority (racial, ethnic, religious) to majority and an analysis of the social implications and major issues of this relationship in regards to power, wealth, education, class, etc., for the future. Prerequisite: SOCI—101. (ATTR: AMSB, ARTS, MCCP)

**SOCI—220. Collective Behavior and Social Movements 3 credits**

A sociological analysis of the behavior of collectivities in uninstitutional settings. Crowds, masses, publics, and social movements will be examined with relation to their social and cultural backgrounds, forms of expression and organization, and their functions in society. Prerequisite: SOCI—101.

**SOCI—230. Sociology of Sex and Gender 3 credits**

An examination of conceptions of the nature of males and females and what kinds of behavior are normal and appropriate to each. It will investigate how gender expectations are constructed and disseminated in a society, producing pressure on individuals to conform to gender-appropriate thinking and behaving, and how these gender expectations are mediated by race, ethnicity, class, sexual orientation, and other factors. Prerequisite: SOCI—101.

**SOCI—240. The Sociology of Aging 3 credits**

This course will examine the social phenomena of aging. This process will explore the historical, political, economic, and cultural contexts as they influence the social context of aging. Although the course addresses aging primarily within the United States, considerable effort is made to incorporate a cross-cultural framework. Prerequisite: SOCI—101.

**SOCI—250. Culture and Personality 3 credits**

This course will treat the impact of culture on personality, the influence of personality on culture, and the effects of culture and nature on sex roles. Cross-cultural case studies will be used. Prerequisites: SOCI—101 or SOCI—140.

**SOCI—260. Deviant Behavior 3 credits**

An examination of the nature of deviance, the dominant theories for explaining deviant behavior, and the implications of these theories for its control. Several examples of deviance will be discussed, with emphasis on the social factors related to their occurrence and the utility of various theories in their explanation. Prerequisite: SOCI—101. (ATTR: ARTS, LSRG)

**SOCI—270. Social Psychology 3 credits**

This course is a systematic study of the nature and causes of human social behavior and will focus on the theories and methods that have been developed primarily by sociologists to help understand everyday social life. It examines such topics as socialization, development of the self, gender roles, social interaction and interpersonal relationships, conformity and deviance, self-presentation and impression formation, leadership, and interpersonal processes such as cooperation, conformity and conflict. Prerequisite: SOCI—101. (ATTR: ARTS)

**SOCI—280. Sociology of Childhood 3 credits**

A study of the status of the child, from the beginning of life to the twelfth year inclusive. The interaction of children with social institutions such as family, school, religion, economics, etc. will be investigated, as well as certain problems of childhood in contemporary America, with cross-cultural comparisons. Prerequisite: SOCI—101. (ATTR: ARTS)

**SOCI—285. Social and Cultural Change 3 credits**

The study of social and cultural change: the causes, processes, theories, and consequences. The case study approach will be used to exemplify these aspects of this field. Prerequisite: SOCI—101 or SOCI—140.

**SOCI—300. Political Sociology 3 credits**

The basic issues, theories, and concepts employed or referred to in the sociological analysis of the distribution and use of power on the local and national level. Major classic and contemporary critical social theorists are considered. Prerequisite: SOCI—101.

**SOCI—310. Crime and Control 3 credits**

A study of the nature of crime and the basis of criminal law, factors relating to the incidence of crime in American society, and the operation of the agencies of social control, including the police, courts, prisons, and probation. Prerequisite: SOCI—101.

**SOCI—320. Urban Sociology 3 credits**

Study of urbanization in pre-industrial, industrial, and developing societies. Aspects of urban growth patterns, forms, functions, and problems will be examined. Prerequisite: SOCI—101.

**SOCI—330. Sociology of Organizations and Work 3 credits**

The study of formal organizations in a comparative framework. The course will examine the social causes of the development of formal organizations, analyze the internal structure of some types of formal organizations such as corporations, government agencies, hospitals, and universities, and look at the impact of that structure on the achievement of individual, organizational, and societal goals. Prerequisite: SOCI—101.

**\*\*\*SOCI—340. Sociology of Religion 3 credits**

A critical look at institutional religion in mass society. Through a historical and a comparative approach, special attention will be given to the interrelations among religion and other social institutions. Prerequisite: SOCI—101.

**SOCI—350. Social Stratification and Mobility 3 credits**

This course examines the social mechanisms through which power, wealth, and prestige are distributed in contemporary societies with special attention to such major determinants as race, sex, property, and occupation. Some time will be spent on the consequences of the class structure for lifestyle. The course also examines rates and patterns of social mobility in modern societies. Prerequisite: SOCI—101.

**SOCI—360. The Social Impact of the Mass Media 3 credits**

This course will focus on newspapers and television as the most important mass media of our time. It will examine the newspaper and TV industries and the impact of these industries on areas of public concern such as the news, politics, religion, minorities, crime, and violence. Prerequisite: SOCI—101.

**SOCI—370. Medical Sociology 3 credits**

This course provides the student with knowledge about health care systems. Topics: social factors in health and illness, the socialization of health practitioners, the organization of health services, and health delivery systems in cross-cultural perspective. Prerequisite: SOCI—101. (ATTR: ARTS, HSMR, SYUR)

**SOCI—375. Comparative Health Care Systems 3 credits**

An examination of selected health care systems world-wide. Systems will be examined structurally, and in relation to other systems. The interrelationship of the health care system to the larger society will be investigated. Problems and consequences of each system will be addressed. Prerequisite: SOCI—101. (ATTR: ARTS)

**SOCI—380. Population Problems 3 credits**

A study of population trends in the United States and across the world. The course will be organized around three basic variables: fertility, mortality, and migration. Prerequisite: SOCI—101. (ATTR: ARTS, SYUR)

**SOCI—385. Topics in Sociology 3 credits**

This course concentrates on one area of sociological research or theory not covered in regular course offerings. May be taken more than once with different content. Consult Fall and Spring schedules for specific top-

*\*\*\* Offered when there is sufficient student interest*

ics. Prerequisite: SOCI—101. An additional fee may be required, depending on the topic offered.

*SOCI—400 through SOCI—499 require junior or senior status and nine credits from SOCI—201 through SOCI—385, or consent of the instructor.*

**SOCI—400. Classical Sociological Theory 3 credits**

An analysis of classical sociological thought with an emphasis on those theorists and concepts that have had great impact on modern sociological theory and research. (ATTR: ARTS)

**\*\*\*SOCI—410. Contemporary Sociological Theory 3 credits**

An analysis of contemporary sociological theory and its application in current research and social policy.

**\*\*\*SOCI—470. Practicum in Sociological Research 3 credits**

This course is designed to give the student experience in doing research by working in a professional research project being carried out by the instructor. Depending on the particular project, the student may acquire skills in sampling research design, data collection and measurement, data analysis, and research report writing.

**SOCI—480. Internship in Sociology 3 credits**

This course provides field experience in community service organizations or social research agencies. The student will work for at least ten hours per week under the direction of a professional supervisor in the sponsoring organization. In addition, the student will meet periodically with a member of the Sociology Department faculty and will prepare a written report at the end of the internship. Only seniors and juniors with a grade point average of at least 2.75 will be eligible. No student can enroll for more than two internships during his or her college career. Prerequisites: 12 credits in Sociology *and* permission of the supervising faculty member. (ATTR: ARTS, INT)

**SOCI—490. Seminar in Sociology 3 credits**

A special topic will be selected for intensive study and discussion. Consult fall and spring schedules for specific information. May be taken more than once with different content. (ATTR: ARTS)

**SOCI—499. Independent Study 1 - 3 credits**

Qualified students are encouraged to undertake an independent study project in their junior or senior year. Such a project requires the approval of the faculty member supervising the project and the department head. The student qualifies for his or her grade and credits by the submission of a satisfactory written report. When appropriate, an examination may be required. Students are limited to no more than one independent study project in any academic year.

*\*\*\* Offered when there is sufficient student interest*



# School of Business

TBD, *Dean*

Mr. Jamie S. Casline, *Assistant Dean for Administration*

Ms. Diane J. Hannahs, *Assistant to the Dean*

The School of Business offers undergraduate programs in Accounting, Economics, Finance, and Marketing and Management. Certificate programs are available in two areas: Accounting, and the International Studies, Foreign Language and Business Program. Minors are offered in Business and International Business.

*Mission:* The mission of the School of Business is to offer values-oriented, intellectually stimulating educational programs that prepare students for business careers and continuing intellectual and professional development. The School of Business places paramount importance on teaching and learning in an atmosphere enriched by business collaboration and professional activity. This is accomplished by integrating the College's liberal arts and Franciscan traditions with current business theory, skills, and practices.

*In support of our mission:* The School of Business provides intellectually stimulating educational programs in Accounting, Economics, Finance, Marketing and Management. Students are exposed to teaching strategies and modes of evaluation designed to emphasize active learning, collaborative activities, and critical and creative intellectual inquiry.

In support of the College's liberal arts and Franciscan mission, the School of Business strives to empower its students to address the challenges of an ever-changing world and a diverse society. Study in the liberal arts serves to inculcate and nurture the importance of life-long learning in our students. The Franciscan values imparted to our students provide a moral compass for future behavior.

The School of Business requires students to master the foundation and functional knowledge and perspectives common to all business disciplines. Students are expected to develop the ability to define and synthesize, to form independent, well-reasoned judgements, and to understand common business research methods and practice. Each student will attain discipline specific knowledge through studies in their major field.

Teaching and learning are of paramount importance. The faculty:

- offer students the opportunity to be known as individuals;
- use a wide variety of teaching and learning techniques and the diversity of skills necessary for critical and creative intellectual inquiry;
- challenge students to work toward attaining their best performance levels;
- utilize the curriculum to help students identify the ethical dimensions embedded in business decisions;
- immerse students in a learning environment which blends current business theory and practice.

Student learning is enriched by faculty and student interaction with business, non-profit, and government enterprises through means such as international and domestic student internships, faculty externships, and business speaker series.

The School of Business is composed of a dedicated faculty of teachers who are accomplished classroom instructors, who provide a blend of theoretical and practical aspects of their discipline and who primarily engage in pedagogical and applied business activities and profession/community service on a regular basis.

*Curriculum:* Students in the School of Business take the college core. In addition, Business majors take pre-business foundation and skills courses; common business core courses; courses in a chosen major and arts and science electives for a total of 120 credit hours.

*Liberal Arts and Science Requirements:* College wide core (42 credits); other Liberal Arts and Science electives and requirements (18 credits)

*Pre-business Foundation and Skills Courses* (count as liberal arts and science courses): ECON—101 and 102: Principles of Economics, Micro and Macro; QBUS—100 and —110: Mathematics for Decision Making I and II; CSIS—010: Introduction to Computer Applications or CSIS—110: Intro to Computer Science.

*Common Business Requirements* (24 credits): ACCT—200 and 205, Accounting I and II; BLAW—300, Legal Environment of Business; FINC—301, Managerial Finance I; MKMG—113, Business and Organizational Communication; MKMG—211, Organization and Management; MKMG—212, Marketing; QBUS—200, Business Statistics I. A student majoring in a business discipline must earn a minimum grade of C- in each course of the Common Business Requirements and thus can't take these courses pass/fail.

*Major Course Requirements:* Major courses, 21-27 credits; Business Electives, 6-9 credits. Major requirements are listed under the individual departments.

*Business Minor:* Must be declared through the School of Business office. Students declaring a business minor should possess good oral and written communication skills; adequate quantitative and analytical abilities (QBUS—100 or MATH—110); and an understanding of computer applications. Students majoring in business may not select the Business Minor. No course used to fulfill the business minor may be taken pass/fail.

The Business minor is comprised of six required courses: ACCT—200, ACCT—205, ECON—101 or ECON—102, FINC—301, MKMG—211, MKMG—212. Students should complete the quantitative reasoning requirement through either QBUS—100, MATH—010, MATH—110 or other equivalent college level coursework. Those pursuing a B.A. in Economics who want a Minor in Business are required to take an additional School of Business course at the 300 level or above from any department except Economics.

*International Business Minor:* Must be declared through the School of Business office. Students declaring an international business minor should possess good oral and written communication skills; adequate quantitative and analytical abilities; and an understanding of computer applications.

The International Business minor requires 18 credit hours distributed as follows: three courses from the following (courses must be from at least two different departments): ECON—350, ECON—360, ECON—370, ECON—380, FINC—413, MKMG—334; two courses in one of the following areas: language (two courses beyond the intermediate level) or humanities and social sciences (two courses beyond the core curriculum disciplinary requirements; these courses would ideally focus on the region of interest). See the International Business Minor Advisor for a listing of courses that meet this guideline; and BUDV—420 (this course will be waived if the student completes a semester abroad in one of the School of Business International Internship programs).

**It is strongly recommended that all students who complete the International Business Minor be competent at the intermediate level in a foreign language.**

## School of Business Courses

### **BUDV—242. Property and Liability Insurance 3 credits**

An introduction to the nature of property and liability risks and their evaluation. Fire insurance, inland marine and ocean marine insurance will be studied. Licensing requirements met only through Evening School offering. (ATTR: BUS)

### **BUDV—243. Property and Liability Insurance II 3 credits**

An introduction to the law of negligence and agency. Public liability, employer's liability, worker's compensation, automobile and crime insurance will be examined. Multiperiod and package policies will be explored, along with the management and regulation of insurers. Licensing requirements met only through Evening School offering. (ATTR: BUS)

### **BUDV—250. Principles of Real Estate I 3 credits**

This course consists of the study of the fundamental principles involved in buying and selling real estate. The subject matter includes interests in real property, easements, liens, and a survey of legal documents such as deeds and mortgages. This course meets the New York State education requirement for the licensing of real estate salespersons.

### **BUDV—251. Principles of Real Estate II 3 credits**

This course concentrates on the areas of leasing, appraising and developing real estate, as well as operating the real estate office. It includes topics such as advertising and showing property, tax assessments, and real estate as an investment. Prerequisite: BUDV—250. Successful completion of this course and BUDV—250 will meet the New York State education requirements for the examination to license real estate brokers. (ATTR: BUS)

### **BUDV—252. Real Estate Appraisal 3 credits**

The student will be exposed to the principles and techniques of real property valuation. Various valuation principles and the three approaches to estimating value (market data, cost, and income) will be explored in detail.

Prerequisite: BUDV—250, or professional real estate license or designation. (ATTR: BUS)

**BUDV—310. Entrepreneurship and New Venture Creation**  
**3 credits**

An introductory course concentrating on how new venture opportunities are identified and assessed. Special attention is given to exploring the unique role of entrepreneurship and innovation in society. Course content focuses both on understanding the historical, social, and ethical context of entrepreneurship and in seeking, assessing and developing new venture opportunities. Students will learn alternative approaches to finding new venture opportunities and assessing the viability of those opportunities. Prerequisites: ACCT—205; MKMG—212.

**BUDV—410. Entrepreneurship and Small Business Development**  
**3 credits**

An advanced course in entrepreneurship focusing on developing, planning, financing and launching new business ventures. The course will require students to integrate the functional areas of business in developing, writing and presenting a real business plan for an entrepreneurial start-up or an existing small business. Prerequisite: BUDV—310.

**BUDV—420. Global Connection 3 credits**

An academically oriented study of international business in a region outside the United States, this specially designed course offers three semester hours credit for an intense two-week study program in a region outside the United States. This travel experience is preceded by orientation lectures and followed by supervised research into one aspect of the field study. Students will tour factories, retail outlets, education institutions, and financial markets. They will meet with business executives, business faculty, and government officials. They will examine issues including how marketing approaches vary among countries, how culture influences the manner in which business is conducted, and how government and trade regulations affect overall economic structure. Travel costs paid by student. Cost varies each semester. Prerequisite: This course is open to all students who have completed at least two international business courses.

**BUDV—440. Visiting Executives Forum 3 credits**

Visiting executives will discuss their companies' goals and objectives and how their functional tactics and control methods support their strategies. The course content will integrate the functional areas of business as influenced by global competition and rapid technological change while optimizing the contribution of managers and employees. Open to seniors in the School of Business or by permission of instructor.

**BUDV—482. Internship in Business 1 - 3 credits**

Field study experience in subject areas covered by the departments of Accounting, Economics, Finance, and Marketing/ Management. Students will explore career opportunities and field work experience related to their major field of study, working 120 to 150 hours per semester for each 3-credit internship. Students will be graded on a pass/fail basis. Students will be required to

maintain a field experience journal, attend scheduled classroom seminars, and complete a final report or project. BUDV—482 may be taken twice for a maximum of 6 credits, which do not count toward credits earned in a student's major field of study. Prerequisites: Senior status or rising seniors with a minimum of 84 credits including at least 12 credits in the major field of study and permission of the School of Business internship coordinator. To be eligible, students must have earned either a cumulative grade point average of 2.75 or 3.0 in their major field of study, based on courses taken while at Siena.

**BUDV—499. Independent Study in Business 1 - 3 credits**

This course provides an opportunity for seniors with a 3.0 or above to pursue independent study in a business area that does not fit within a single department's guidelines. The permission of a faculty member and the Dean is required.

**BUDV—779. Topics in Intercultural Understanding, Business 4 credits**

This course, offered in a foreign country, is an intensive study of specific topics associated with international internships. The nature of the student's research will determine which School will award credit. The course will typically involve a high degree of independent research, oral presentations by the students, and a well-documented writing assignment. Besides the specific research coordinated with an internship, the course will emphasize issues in intercultural communication. A student will earn four credits for this course.

**BUDV—781. International Internship, Business 3 - 8 credits**

A student may earn 3-8 credits by serving as an intern in a foreign country. Placements are available for students from each School. The nature of the internship will determine which School will allocate credit. Typical opportunities include work in parliaments, law offices, theatres, museums, non-profit organizations, banking, hospitals and businesses. Students will work from 10 to 32 hrs. a week, depending on the program selected. The internship will involve a sizeable research project linked to the work undertaken. Prerequisites: students must be at least juniors, demonstrate self-motivation, good communication skills and trustworthiness. The GPA requirement is 2.75.



## Accounting and Business Law Department

*Head:* Mrs. Andrea Hotaling, *Assoc. Prof.*

*Prof.:* Mr. Joseph G. Allegretti, Esq., Dr. Leonard E. Stokes, III, Mr. Michael R. Van Patten

*Assoc. Prof.:* Mr. Robert B. Carmody, Mr. Paul F. Dwyer, Jr., Esq., Dr. Jeffrey Lippitt<sup>∞</sup>

*Asst. Prof.:* Dr. Thomas Conway, O.F.M., Dr. Margaret Garnsey, Dr. Donald J. Raux

*Visiting Instructor:* Mrs. Nancy Fitorre

The Department of Accounting is committed to academic excellence. Opportunities for practical experiences complement the academic program of the Department and prepare students to succeed in the business world. The Department strives to increase the students' interest in professional accounting matters, help them develop powers of discrimination and judgment, and encourage the pursuit of lifelong learning through continuing professional education.

The student majoring in Accounting is educated in the advanced principles, theories, and real world applications of accounting and taxation. The Department presents its program as a broad and balanced conception, rather than narrow specialization. The Accounting major is prepared for the fields of public accounting, industrial accounting, government service or not-for-profit accounting. In completing the requisite courses for an Accounting major, the student fulfills a basic requirement for admission to the licensing examinations for Certified Public Accountancy in New York State. Students are also qualified to sit for the professional examinations as Certified Management Accountants (CMA) and as Certified Internal Auditors (CIA).

Accounting majors are encouraged to seek as broad an education as possible. Many accounting majors have successfully completed minors in the liberal arts and sciences including Computer Science, International Business, English, History, Political Science, and foreign languages.

*Mission Statement:* The mission of the accounting department is to prepare students for entry level accounting and business positions, subsequent career growth, and continuing intellectual and professional development. The department provides a challenging and intellectually stimulating learning environment that emphasizes the analytical, communication, technological and teamwork skills necessary to succeed in the current dynamic business environment. The integration of accounting theory and practice with the college's liberal arts and Franciscan traditions enables students to become responsible and contributing members of society.

<sup>∞</sup> Academic leave of absence, 2002-2003

### **Certified Public Accountancy**

The curriculum in accountancy leading to the degree of Bachelor of Business Administration is registered by the New York State Education Department. It satisfies all course requirements for sitting for the CPA exam. For more information, contact the head of the Accounting Department.

*Requirements for the Accounting Major and the Accounting Certificate (in addition to the Common Business Requirements):*

	<b>Credits</b>	
<b>Courses</b>	<b>Cert.</b>	<b>Major</b>
Intermediate Accounting	6	6
Cost Accounting	3	3
Advanced Accounting	3	3
Auditing	3	3
Taxation I	3	3
Accounting Electives (see below)	6	6
Accounting Elective	3	3
Managerial Finance II	3	3
Business Law II	3	3
Computer Science (one course above Pre-business Foundation and Skills requirement)		3

Accounting Electives will be selected after consultation with an academic advisor to determine the best mix of courses to prepare the student for a specific career specialization.

Candidates for the Accounting Certificate must take additional elective courses to bring the total to 60 credits of accounting and business. Candidates are expected to have computer competence that can be demonstrated through experience or additional coursework in computer science. A minimum of 30 hours must be taken at Siena College with an overall grade index of 2.0. At least 15 hours of accounting must be taken at Siena (no grade below a C- being acceptable.)

*Education Certification:* Accounting majors seeking provisional teaching certification in Business and Distributive Education should plan their program jointly with their advisor and the Education Department at Siena. Accounting majors seeking the provisional teaching certification will require more than 120 credit hours to complete their degree requirements.

## Description of Courses

### **ACCT—200. Accounting I 3 credits**

The first half of the introductory course in accounting emphasizes the role of accounting as an information and communication system necessary for economic decisions. The accounting process, systems and resulting classified financial statements are covered. Financial accounting concepts and practices relating to topics such as current and long term assets, inventories, current liabilities, equity and long term liabilities are included. Prerequisite or corequisite CSIS—010 or CSIS—110 and QBUS—100 (or equivalents). Lab fee.

### **ACCT—205. Accounting II 3 credits**

The second introductory course in accounting focuses on the managerial aspect of accounting. The emphasis is placed on internal uses of accounting information to make managerial decisions. The coverage will include topics such as: cost volume profit analysis, cost behavior, activity based costing, short term decision making, income tax considerations, budgeting, responsibility accounting, performance measurement, and cost control. Lab problems required. Prerequisite: ACCT—200. Lab fee.

### **ACCT—300. Intermediate Accounting I 3 credits**

This course is the first in the two-course sequence in Intermediate Accounting. It provides a comprehensive review of the accounting process, a study of the conceptual basis of accounting, and a review of the preparation and understanding of classified financial statements. The course will focus on the study of contemporary accounting theory and the application of generally accepted accounting principles to various specific topics and financial statement items. A practice set will be utilized to demonstrate various aspects of an accounting information system. Prerequisite: ACCT—200. Lab fee.

### **ACCT—305. Intermediate Accounting II 3 credits**

Continued study of contemporary accounting theory and the application of generally accepted accounting principles to various financial statement items. Prerequisite: ACCT—300. Lab fee.

### **ACCT—340. Taxation I 3 credits**

A study of the principles of Federal income taxation primarily focused on taxation of individuals. The course includes an introduction to tax research. Reference will be made to state tax laws and to corporate taxation. Lab problems required. Prerequisite: ACCT—200. Lab fee.

### **ACCT—350. Cost Accounting 3 credits**

The principles and objectives of cost accounting, production control, and inventory control as they relate to the management decision making and control processes within the firm. Prerequisite: ACCT—205. Lab problems required. Lab fee.

**ACCT—400. Advanced Accounting 3 credits**

Continued study of financial accounting theory and practice in selected areas of accounting such as accounting for partnerships and accounting for complex corporate units and multinational enterprises. Lab problems required. Prerequisite: ACCT—305. Lab fee.

**ACCT—410. Current Accounting Topics 3 credits**

Study of specialized accounting topics and issues such as the conceptual framework of accounting, changing price levels, forecast and projections, fiduciary accounting, interim and segment reporting, disclosures, and the standard-setting process. Emphasis is on current pronouncements and the researching of accounting issues. Lab problems required. Prerequisite: ACCT—400. Lab fee.

**ACCT—420. Not-For-Profit Accounting 3 credits**

An introduction to the accounting principles and practices of government and not-for-profit organizations. The course considers fund accounting principles and the unique financial reporting problems important to entities operating within the non-profit area: state and local government, colleges and universities, hospitals, health and welfare agencies, churches and other organizations. Lab problems required. Prerequisite: ACCT—305. Lab fee.

**ACCT—430. Auditing 3 credits**

The course will emphasize concepts and principles that enable the student to understand the philosophy and environment of auditing and assurance services. It is an overview of the public accounting profession and the Generally Accepted Auditing Standards utilized by the profession in reporting on the financial statements of enterprises. Prerequisites: ACCT—350 and ACCT—400. Lab fee.

**ACCT—440. Taxation II 3 credits**

This course presents the taxation of corporations and its effects on their shareholders. Special tax provisions related to sub-chapter S corporations and partnerships and various aspects of IRS administration and tax practice are included. New York State taxation of corporations and partnerships will be integrated with the presentation. Prerequisites: ACCT—305 and ACCT—340. Lab fee.

**ACCT—450. Accounting for Administrative Control 3 credits**

An in-depth study of the principles and objectives of the techniques and theories used in managerial accounting. Topics such as capital budgeting; variance analysis; cost allocation; management control systems and quantitative techniques for planning and control will be discussed. Lab problems required. Prerequisite: ACCT—305 and ACCT—350. Lab fee.

**ACCT—460. Internal and Performance Auditing 3 credits**

This course will examine the common body of knowledge needed by internal auditors. Emphasis is placed on the tools and techniques used to assess the economy, efficiency, effectiveness and results of management activity as they are used in government, not-for-profit agencies and the private sector. Prerequisite: ACCT—305. Lab fee.

**ACCT—470. Accounting Systems and Data Processing  
3 credits**

An up-to-date and comprehensive treatment of the aspects of accounting systems building with appropriate emphasis on data for decision making. The interrelationships of the functions of recording, processing, and analysis, using the principles of good systems building, are blended with the manual and automated devices. Laboratory required. Prerequisite: ACCT—300. Lab fee.

**ACCT—472. Security and Control in an Information  
Technology Environment 3 credits**

The course explores security and control issues from an accounting and auditing perspective related to technology as it impacts business applications. Topics may include security and control related to e-commerce, internet, and computer auditing. Students will be exposed to a variety of business applications through case studies, and projects. Prerequisites: ACCT—300, FINC—301, CSIS—020 or equivalent. Students need an understanding of basic accounting and financial concepts, as well as an understanding of the design and application of Information Systems and Data Bases. Computer lab fee.

**ACCT—490. Seminar: Topics in Accounting 3 credits**

The course is intended to provide opportunities for concentrated study at an advanced level in areas beyond the scope of regular course offerings including topics of current concern and topics specifically identified as meeting specialized interests of students. This course is offered on an irregular basis. It may be taken more than once with different course content. Prerequisites: There are no specific prerequisites. The seminar is an elective open to seniors in accounting. Depending on the topic, specific background might be required, and also it might be cross-listed with other Departments and/or be open to seniors in other majors. Approval of the Instructor is required. Lab fees dependent upon the topic discussed.

**ACCT—499. Independent Study 1 - 3 credits**

A qualified student may pursue a particular project/topic in the field of Accounting in his/her junior or senior year. The project requires the approval of the faculty member involved and the Department Head. A satisfactory written report and/or examination will determine the final grade. Only one independent project may be undertaken in any academic year. Prerequisites: Junior or Senior status. The student must possess adequate preparation in the field that will be studied as determined by the professor. No lab fee.

### **Accounting Certificate**

The College will grant a Certificate of Accounting upon the successful completion of 60 credits of specified accounting and business subjects. Candidates are expected to have computer competence that can be demonstrated through experience or additional coursework in computer science. This program is intended for students who do not plan to earn the bachelor's degree or who have already earned a degree in another major. A student wishing to sit for the CPA examination will be required by the examining board to provide a transcript for his/her bachelor's degree and a transcript of courses taken for the Accounting Certificate. Certificate requirements are listed under the Accounting Department.



## **Business Law**

### Description of Courses

#### **BLAW—300. Legal Environment of Business 3 credits**

The course presents the legal concepts governing the conduct of business in the United States from a managerial perspective including contracts, torts, agency and government regulations. The course is designed to equip managers and other business persons with an understanding of the legal process as it applies to managerial and other business problems. As legal rules frequently change, the emphasis will be on developing independent critical thinking skills.

#### **BLAW—310. Commercial Transactions 3 credits**

A general survey of the uniform commercial code. Sales: passing of title, risk of loss, financing and security interests, bailments, and carriers. Commercial Paper: negotiation and assignment, holders in due course, defenses, banks, debtor-creditor, and bankruptcy. Property: real and personal, transfers, and financing. Prerequisite: BLAW—300.

#### **BLAW—490. Seminar: Topics in Business Law or Business Ethics 3 credits**

This course is intended to provide opportunities for concentrated study at an advanced level in areas beyond the scope of regular course offerings including topics of current concern and topics specifically identified as meeting specialized interests of students. This course is offered on an irregular basis. It may be taken more than once with different course content. Prerequisites: There are no specific prerequisites. The seminar is an elective open to seniors in business. Depending on the topic, it might also be cross-listed with other Departments and/or be open to seniors in other majors. Depending upon the topic being covered and enrollment the course may be open to juniors. Approval of the Instructor is required. No lab fees.

## **Economics Department**

*Head:* Dr. W. Scott Trees, *Prof.*

*Prof.:* Dr. Edward T. Howe, Dr. Blaise F. Reinhart, O.F.M.

*Assoc. Prof.:* Dr. James F. Booker, Dr. Richard L. Shirey

*Visiting Instructor:* Ms. Mary Ellen Mallia

The Department of Economics provides students with an opportunity to study the major economic relationships present in every society. Students will study alternative ways of meeting needs within institutional and resource constraints.

Students who wish to major in economics may choose from two courses of study: either a B.A. or B.S. degree. The B.A. program offers students the methodology and analytical techniques appropriate for graduate work in economics and related professions such as Planning, Public Administration, and Law. It provides a foundation for research and analysis in academic and government institutions. The B.S. program is oriented

toward the techniques and background appropriate for the business world. It prepares students for graduate work in Business Administration and economic analysis within the business community. All economics majors will explore both theoretical and quantitative analysis, including the use of computers.

*B.A. in Economics requirements:* The B.A. in Economics requires 30 credit hours in Economics (ECON—101, ECON—102, ECON—201, ECON—202, ECON—430 and five additional Economics elective courses); 6 credit hours in Mathematics (3 credit hours chosen from QBUS—100 or MATH—050 and 3 credit hours chosen from QBUS—110 or MATH—110 or MATH—120 or MATH 130); 3 credit hours in Statistics (chosen from QBUS—200 or ATDV—110 or MATH—270); and 3 credit hours in Computer Science (chosen from any CSIS course).

Students completing the B.A. degree must complete at least 90 credit hours of liberal arts and science courses — including Economics (courses with the attribute ARTS).

*B.S. in Economics requirements:* The B.S. in Economics requires 30 credit hours in Economics (ECON—101, ECON—102, ECON—201, ECON—202, ECON—430 and five additional Economics elective courses); 24 credit hours in Common Business Core (ACCT—200, ACCT—205, BLAW—300, FINC—301, MKMG—113, MKMG—211, MKMG—212 and QBUS—200); 6 credit hours in Business Electives; 6 credit hours in Mathematics (QBUS—100 and QBUS—110); and 3 credit hours in Computer Science (chosen from CSIS—010 or CSIS—110).

Students completing the B.S. degree must complete at least 60 credit hours of business courses — including Economics (courses with the attribute BUS) and at least 60 credit hours of liberal arts and science courses (courses with the attribute ARTS).

Please Note: For B.A. and B.S. Economics majors, three Finance courses are cross-listed with Economics and count toward the degree (FINC—212 = ECON—210; FINC—421 = ECON—420; FINC—422 = ECON—320).

*Minor in Economics requirements:* The Minor in Economics requires: 18 credit hours in Economics (ECON—101, ECON—102, ECON—201, ECON—202 and two additional Economics elective courses).

*Education Certification:* Economics majors (B.S.) seeking provisional teaching certification in Business and Distributive Education should plan their program jointly with their advisor and the Education Department at Siena.

## Description of Courses

### **ECON—101. Principles of Economics, Micro 3 credits**

This course introduces students to fundamental economic concepts and theory, including demand, supply, and the formation of equilibrium prices in product and resource markets. In addition, the course offers an

introduction to applied fields such as industrial organization (market structures), labor economics, unionism, international trade, and market failure. (ATTR: ARTS, CAP, ISP)

**ECON—102. Principles of Economics, Macro 3 credits**

This course examines the foundations of economic theory as it relates to unemployment, inflation, and economic growth. Topics might include aggregate demand, aggregate supply, market equilibrium, national income accounting, theories of income determination, money and banking, and fiscal and monetary policies. (ATTR: CAS)

**ECON—201. Micro-Economic Analysis 3 credits**

An intermediate-level treatment of the theories of consumer behavior and demand, production and cost, the firm and market organization, and factor markets. Microeconomic topics might include price control, pollution, efficiency, equity, taxes, subsidies, and government regulation. Prerequisite: ECON—101 and ECON—102.

**ECON—202. Macro-Economic Analysis 3 credits**

An intermediate-level examination of Classical and Keynesian models of income determination, post-Keynesian thought and the Monetarist alternative, and the problems of inflation, employment, and growth. Prerequisite: ECON—101 and ECON—102.

**ECON—210. Money and Banking 3 credits**

This course is designed to develop the student's understanding of the structure and function of our banking system and the role of monetary policy in determining economic activity. Topics included are: the nature of money, the term structure of interest rates, the regulation of commercial bank activity, and the macro-monetary models used to predict future economic conditions. Prerequisite: ECON—102. (Same as FINC—212)

**ECON—220. Labor Economics 3 credits**

A general survey of the American labor force reveals the changing nature of work, changing labor force participation rates by age and sex, and the growing importance of minority representation. Traditional labor market models of wage determination are supplemented by considerations of institutional constraints, employee benefits, and forms of wage discrimination. Special topics include: types of unemployment, federal manpower programs, and the history of American trade unionism. Prerequisite: ECON—101.

**ECON—230. Economic History of the United States 3 credits**

The economic development of the United States from early beginnings to present time. A chronological approach is used to study economic aspects of the major problems of each period.

**ECON—320. Public Finance 3 credits**

Public finance focuses upon the rationale and impact of the government's collection of revenue and its expenditures. Topics to be covered include the budget system, principles of taxation, tax incidence, the principles of expenditures, the impact of spending on private behavior, as well

as the ability of the process to produce appropriate decisions. Prerequisite: ECON—101 and ECON—102, ECON—210 or permission of instructor. (Same as FINC—422)

**ECON—330. History of Economic Doctrines 3 credits**

A critical examination of the development of the major schools of economic thought from the seventeenth through the early twentieth centuries, with particular attention on mercantilism, classicism, marginalism, socialism, and neo-classicism. This course is primarily a reading program and is restricted to junior and senior level students from all areas of the college. Prerequisite: ECON—101.

**ECON—340. Environmental Economics 3 credits**

An examination of how the natural environment is affected by the economic activities of society, and the physical and biological limitations imposed on the economy by the natural environment. Particular areas examined include the use of non-renewable natural resources, market failures, economic methods for analyzing pollution, cost/benefit analysis, the impact of population growth, and the values implicit in free market economies toward the natural environment. (Same as ENVA—300.) Prerequisite: ECON—101.

**ECON—350. Comparative Economies 3 credits**

A survey of different forms of national capitalist economic organization, e.g. comparisons of the U.S., Germany and Japan with regard to institutional and policy-making differences as they affect the distribution of wealth and income and social welfare. Other topics include comparisons of various socialist economies and formerly socialist economies in Eastern Europe and China, as well as the emerging hybrid forms of economic organization in those societies. Prerequisite: ECON—210 or permission of the instructor.

**ECON—360. Economic Development 3 credits**

An analytical approach to the economic problems of the developing countries. The course includes a discussion of the theories of economic growth and development, including domestic and international issues. This material is augmented by the use of empirical studies of the developmental process. Prerequisite: ECON—101 or ECON—102.

**ECON—370. International Trade Theory 3 credits**

An examination of bases, advantages and problems of international trade from the perspective of classical, neoclassical and modern theories. Key topics include determinants of the gains from trade, changes in income distribution resulting from trade, the rationale and consequences of commercial policies (e.g. tariffs, quotas and subsidies) and industrial policies designed to enhance the trade competitiveness of trading economies. Emphasis is placed on the consequences of income distribution from trade and, therefore, on questions of equity and efficiency. Prerequisite: ECON—101.

**ECON—380. International Economics 3 credits**

The theory of equilibrium in the balance of payments and in income and monetary flows in the open economy is stressed. The course also includes applications to such problems as exchange rate adjustment, international coordination of monetary policy among countries, international reserves and liquidity, and capital movements. Prerequisite: ECON—102. (ATTR: ARTS, ISP)

**ECON—420. Business Financial Forecasting 3 credits**

This course explores the nature and causes of fluctuations in aggregate business activity and the technique used to forecast. To gain an understanding of these techniques, and the usefulness of forecasts, students will prepare a forecast and explore its application to firm decision making. Prerequisite: QBUS—200. (Same as FINC—421)

**ECON—430. Econometrics 3 credits**

An introduction to the application of statistical techniques to economic problems. This course includes a review of probability theory, mathematical expectation, and theoretical frequency distributions along with considerations of modeling economic phenomena. Ordinary and two-stage least squares regression techniques are utilized for hypothesis testing and economic forecasting. Prerequisites: QBUS—200 or ATDV—110, ECON—101 and ECON—102.

**ECON—490. Seminar in Advanced Economic Theory 3 credits**

Analysis of selected topics on an advanced level. Topics are drawn from micro and macro-economics. The course is designed to acquaint the student with advanced subjects and original literature. This course may be taken more than once with different content. Prerequisites: ECON—201, 202.

**ECON—499. Independent Study 1 - 3 credits**

A qualified student may pursue a particular project/topic in the field of Economics in his/her junior or senior year. The project requires the approval of the faculty member involved and the Department Head. A satisfactory written report and/or examination will determine the final grade. Only one independent project may be undertaken in any academic year. Prerequisites: ECON—201, 202 and Junior or Senior status.

**ECON—790. Washington Semester Economic Policy. Seminar I 4 credits**

The Washington Economic Policy Semester provides a seminar which offers a theoretical analysis of contemporary economic problems; presentation of alternative paradigms used to understand economic problems; extensive readings; preparation of papers; and on-site discussions of economic policy decisions. Meetings are generally four to six times per week and may be held at field sites as well as on campus. (See: ATDV—788, 789)

**ECON—791. Washington Semester Economic Policy. Seminar II  
4 credits**

This is a correlated course to the work being carried on in ECON—790. (See: ATDV—788, 789)

**ECON—792. Washington Semester Business and Trade  
Seminar I 4 credits (See: ATDV—788, 789)**

**ECON—793. Washington Semester Business and Trade  
Seminar II 4 credits (See: ATDV—788, 789)**

## Finance Department

*Head:* Mr. Paul A. Trent, *Prof.*

*Prof.:* Dr. Linda L. Richardson

*Assoc. Prof.:* Dr. Chitra Rajan#, Dr. Thomas J. Kopp

*Asst. Prof.:* Dr. Richard Proctor, Mr. Patrick J. Sheridan†

The Department of Finance is dedicated to teaching our students the nature and practice of financial decision making. The curriculum and methods of instruction are designed to develop the student's ability to identify financial problems, analyze their impact, and design solutions which will withstand critical examination. To accomplish this, we provide our students with the educational framework necessary to become well-rounded, ethical, and innovative thinkers. This prepares students for fulfilling and successful careers in finance and provides the necessary academic foundation for graduate studies.

The curriculum and method of instruction expose students to various financial scenarios. Within this context, they are encouraged to use their analytic and creative skills to develop and present strategies that will withstand critical examination. The School of Business internship program gives students the opportunity to enhance the theoretical knowledge they have gained with practical experience and perspectives.

*Requirements for the Major: 30 hours in Finance including:* Introduction to Institutions and Investments; Managerial Finance I, II; Advanced Investments: Theory and Practice; International Finance; Case Problems in Financial Management. Finance majors take a minimum of twelve credit hours of Finance electives. Prior to selecting electives, students are urged to discuss the academic content and career potential of each with their advisor.

In addition, Finance majors must take the common business requirements, listed at the beginning of the School of Business section of this catalog, plus Intermediate Accounting I and II plus electives to total 60 credits in business courses.

# *Administrative leave, 2002-2003*

† *Sabbatical leave, Fall 2002*

<u>Courses</u>	<u>Credits</u>
Introduction to Institutions and Investments (FINC—215)	3
Managerial Finance I (FINC—301)	3
Managerial Finance II (FINC—302)	3
International Finance (FINC—413)	3
Advanced Investments: Theory and Practice (FINC—315)	3
Case Problems in Financial Management (FINC—418)	3
Finance Electives	12
Intermediate Accounting I (ACCT—300)	3
Intermediate Accounting II (ACCT—305)	3

*Education certification:* Finance majors seeking provisional teaching certification in Business and Distributive Education should plan their program jointly with their advisor and the Education Department at Siena.

### Description of Courses

**FINC—025. Personal Finance 3 credits**

Analysis of the problems involved in efficient handling of personal finance and consumption expenditures, including: consumer protection, taxation, insurance, home financing, real estate, budgets and methods of borrowing and investing money. FINC—025 is restricted to non-business majors, except those seeking teaching certification in Business and Distributive Education.

**FINC—212. Money and Banking 3 credits**

This course is designed to develop the student's understanding of the structure and function of our banking system and the role of monetary policy in determining economic activity. Topics included are: the nature of money, the term structure of interest rates, the regulation of commercial bank activity, and the macro-monetary models used to predict future economic conditions. Prerequisite: ECON—102. (Same as ECON—210.)

**FINC—215. Introduction to Institutions and Investments 3 credits**

A survey course designed to help students recognize the interrelationship between human behavior and firm performance in the valuation of stocks and bonds. The central theme of this course will be how and why forces in the economy (both behavioral and economic) lead to the establishment of stock prices. Through projects and simulations, students will explore the interrelationships between financial institutions, financial policies and stock market valuations. Prerequisites: ECON—102 (Not open to students who have taken FINC—314)

**FINC—301. Managerial Finance I 3 credits**

An introduction to the principles of financial management. This course emphasizes an understanding of the role of finance within the firm. Topics covered include the elements of financial planning, valuation, cost

of capital, and capital budgeting under conditions of certainty and risk. Prerequisites: ECON—102, QBUS—110 or equivalent, and ACCT—205.

**FINC—302. Managerial Finance II 3 credits**

This course is a continuation of Managerial Finance I. Topics covered include working capital management, the use of long-term financing and leverage. It will also deal with the special topics of mergers or international finance. Prerequisites: ACCT—205, FINC—301.

**FINC—314. Investments 3 credits**

A survey course designed to give an overview of the various investment vehicles, including fixed income securities, equity related securities, and leveraged investments. The course also includes theories of valuation, risk, and a basic understanding of the securities markets. This course requires computer-enhanced written presentations of research projects. Prerequisite: ACCT—200. (Not open to students who have taken FINC—215)

**FINC—315. Advanced Investments: Theory and Practice 3 credits**

Through focusing on the development of the Markowitz Procedure, Capital Asset Pricing Model, Arbitrage Pricing and other theories, this course seeks to familiarize students with the theory underlying the practice of Finance. In addition, this course will also familiarize students with the inherent problems associated with these models as well as their strengths. Prerequisites: FINC—302 and FINC—215 or FINC—314.

**FINC—340. Risk and Insurance Management 3 credits**

A study of the potential economic loss from personal, property and liability risks to which all individuals and organizations are exposed. The methods by which these risks are identified and evaluated will be explored, together with methods for retaining and transferring these risks. Prerequisites: FINC—301 or permission of instructor.

**FINC—341. Life and Health Insurance 3 credits**

Modern approaches to its various uses, including investment aspects of life insurance, types of contracts, the beneficiary clause and settlement options. Includes analysis of the life and health insurance contracts, types and organization of companies, investment policy, underwriting and marketing, and rate-making principles and techniques, including reserves and surrender values. Satisfies New York State education requirements for licensing of life insurance and accident and health insurance agents. (ATTR: BUS)

**FINC—344. Employee Benefits 3 credits**

A study of the design and evaluation of employee benefit plans, including the cost and funding requirements of life, medical, pension and profit sharing plans. Prerequisite: FINC—301, or permission of instructor.

**FINC—345. Estate Planning 3 credits**

An introduction to and examination of estate planning. Wills, trusts, estates, gift taxes and responsibilities of estate administrators will be analyzed.

**FINC—353. Real Estate Finance and Investment 3 credits**

The objective of this course is to familiarize the student with the methods, trends, and policies involved in financing real estate transactions, as well as with the investment features of real estate. It includes topics such as the legal aspects of financing, permanent and construction lending, alternative sources of financing real property, investment analysis, yield on investment, and real estate and income taxes. Prerequisites: permission of instructor.

**FINC—413. International Finance 3 credits**

By expanding the student's understanding of the financial system to include an international perspective, this course introduces the student to the role of international considerations within the development of corporate policy. The course examines the determination of exchange rates and operation of exchange markets. The application of these ideas will be extended to the firm's management of foreign exchange exposure, cash management, and capital budgeting. Multinational banking and political risk management will also be studied. Prerequisites: FINC—212 or FINC—215 and FINC—301.

**FINC—418. Case Problems in Financial Management 3 credits**

This course consists of selected case studies to be presented in class by student teams. The objective is to encourage the students to develop the ability to identify problems, and through applying the tools of finance, evaluate alternatives and arrive at viable solutions to the problems in each case. Prerequisites: FINC—302 and ACCT—305. Open to senior School of Business students only.

**FINC—421. Business Financial Forecasting 3 credits**

This course explores the nature of fluctuations in aggregate business activity and the technique used to forecast. To gain an understanding of these techniques, and the usefulness of forecasts, students will prepare forecasts and explore their application to firm decision making. (Same as ECON—420.) Prerequisite: QBUS—200. (ATTR: BUS)

**FINC—422. Public Finance 3 credits**

Public finance focuses upon the rationale and impact of the government's collection of revenue and its expenditures. Topics to be covered include the budget system, principles of taxation, tax incidence, the principles of expenditures, the impact of spending on private behavior, as well as the ability of the process to produce appropriate decisions. (Same as ECON—320.) Prerequisite: FINC—212, FINC—215 or permission of instructor.

**FINC—424. Treasury Management 3 credits**

The theory and practice of financial management as applied to working capital accounts will be examined. The course will focus on corporate cash management, the design of collection and disbursement systems and the management of credit and inventory as it relates to the treasury function. The international dimension will be considered throughout the course. Prerequisites: FINC—212 or FINC—215, and FINC—302. (ATTR: BUS)

**FINC—430. Derivative Securities 3 credits**

A study of options, futures, convertibles, warrants, and other innovative derivatives and swap-like securities. Various trading and hedging strategies, option valuation models, and general market structures will also be covered in this course. This course requires oral and written presentations of computer enhanced research projects. Prerequisite: FINC—315.

**FINC—431. Securities Analysis 3 credits**

This course is a quantitative approach to security analysis, including the theory of financial statement analysis and valuation of the firm. The course also includes analysis of business and economic conditions, industry analysis, and ratio analysis. An oral and written presentation of computer based research projects is required. Prerequisites: FINC—301, FINC—315.

**FINC—432. Portfolio Management 3 credits**

Advanced study in the area of investment management with the emphasis on analysis of modern portfolio theories and advanced investment strategies. This course takes a quantitative approach in the decision-making process and requires an oral and written presentation of computer based research projects. Prerequisite: FINC—315.

**FINC—490. Seminar in Finance 3 credits**

This course will consider a specific topic selected for intensive scrutiny and discussion as a foundation for student research projects, critical analyses, or topical reviews. Consult Fall and Spring schedules for specific topics. May be taken more than once with different contents. Prerequisites: FINC—215, 301, 302, 315, 413 and permission of instructor.

**FINC—499. Independent Study 1 - 3 credits**

A student may work independently on a topic of special interest. In a research paper prepared under faculty supervision, the student is expected to demonstrate familiarity with the methods and tools basic to his study. Prerequisite: Permission of the Department Head. Independent study may be taken twice for credit.

## Marketing and Management Department

*Head:* Ms. Bonni Perrott Baker, *Prof.*

*Prof.:* Dr. Terence P. Curran, Mr. Joseph L. Rosetti#

*Assoc. Prof.:* Mr. Gilbert M. Brookins, Dr. Melinda L. Costello, Dr. Frederick DeCasperis, Dr. Joanne E. Kapp, Mr. Thomas R. Mahaffey, Dr. Charles F. Seifert

*Asst. Prof.:* Dr. Cheryl L. Buff, Dr. Andrea E. Smith-Hunter

*Visiting Instructor :* Mr. Kenneth Williams, Ms. Virginia Yonkers

The program of study in the Marketing and Management Department is designed to prepare students for management careers in business, in government, and in non-profit agencies, as well as for further study at the graduate level. The objective of the Department is to help students acquire knowledge, clarify attitudes and values, and develop communication, interpersonal, and analytical skills that will help them make more enlightened decisions.

*Requirements for the Major:* (in addition to the common business core requirements):

- MKMG—113 Business and Organizational Communication
- MKMG—211 Organization and Management
- MKMG—212 Marketing
- MKMG—429 Organizational Behavior **or**
- MKMG—435 Marketing Management
- MKMG—436 Marketing and Management Research Methods
- MKMG—450 Business Policy and Strategy
- Four additional MKMG elective courses.

Students may choose to select elective courses primarily in marketing or management, essentially creating a track within the major. Or they may choose to combine courses within the major with courses within or outside of the School to create clusters of courses which meet personal objectives.

Students interested in exploring the international aspects of the major are urged to consult the section of the catalog which describes the International Business Minor and the International Studies, Foreign Language and Business Program.

*Education certification:* Marketing and Management majors seeking provisional teaching certification in Business and Distributive Education should plan their programs jointly with their advisor and the Education Department at Siena.

# *Administrative leave, 2002-2003*

## Description of Courses

### **MKMG—113. Business and Organizational Communication 3 credits**

A foundation course that encompasses written and oral communication in the formal and informal business setting. Fundamental communication theories, principles, and practices are discussed from a national, cultural, and international business perspective. Applications in business writing and oral presentations provide the student with a practical understanding of the importance of communication in today's global marketplace.

### **MKMG—211. Organization and Management 3 credits**

A foundation course designed to give the student a basic understanding of organizations with emphasis on conceptual and interpersonal skills. This course will introduce the student to the fundamental management functions including planning, organizing, leading, and controlling from a historical as well as contemporary perspective.

### **MKMG—212. Marketing 3 credits**

A foundation course that introduces the student to an understanding of both the consumer and business marketplaces. The strategies necessary to market goods and services in a domestic and global environment are discussed from the perspective of a variety of organizational structures. This is accomplished through an analysis of external and internal factors that impact the organization, and through the development of an understanding of the strategy components collectively referred to as the marketing mix.



### **MKMG—321. Distribution Management 3 credits**

Distribution management is a phrase that denotes a total systems approach to the management of the distribution process, including all of those activities involved in the logistics of physically moving inventory from point of origin to point of use or consumption. Areas covered include customer service, transportation, warehousing, inventory management, order processing and information systems, materials management, evaluation of effectiveness and control of performance, physical distribution organization, international distribution, strategic planning and distribution system design. Prerequisites: MKMG—212, QBUS—200.

### **MKMG—323. Retailing 3 credits**

A systematic and comprehensive coverage of the elements necessary for successful retail store management. These elements include types of retail institutions, and merchandise management: planning and control, pricing, purchasing, location, layout, display, promotion, store organization, and staffing. Prerequisite: MKMG—212.

### **MKMG—325. Advertising 3 credits**

Advertising's role in the marketing mix is related to local, regional, and national sales efforts. Selection of media including television, radio, newspapers, magazines, outdoor, direct mail, as well as specialized local media is covered. Students create television storyboards, radio commercials, and print-media copy and layout. Elements of advertising campaigns are explored through student advertising agencies established to handle real-world advertising assignments. Course includes budgeting, advertising effectiveness studies, sales promotion, and public relations. Prerequisite: MKMG—212.

### **MKMG—326. Sales Management 3 credits**

This course aims to accomplish four main objectives: [1] To delineate the areas in which sales executives make decisions; [2] To analyze and evaluate sales management decision making criteria and processes; [3] To engage students in a presentation designed to relate the text materials to sales management situations; [4] In addition to the above, students will be introduced to an overview of basic principles of selling. Prerequisite: MKMG—212.

### **MKMG—327. Government and Business 3 credits**

Problems of business operating in a competitive economic system are confronted with governmental regulation at all levels. Particular attention is paid to federal legislation. Current legislation on consumer protection anti-trust, anti-merger, equal employment, OSHA, and environmental protection is analyzed. Prerequisites: MKMG—211, 212.

### **MKMG—330. Business to Business Marketing and Purchasing 3 credits**

This course focuses on the development of marketing strategies targeted at organizations, including businesses, institutions, not-for-profit organizations, and governmental agencies. The focus will be on identifying the unique differences between organizational and consumer buying behavior, with an assessment of the impact on strategy decisions. The

course will also address principles, techniques, and strategies that are utilized by purchasing and materials management professionals in the organization procurement process.

**MKMG—332. Human Resource Management 3 credits**

An interdisciplinary investigation and analysis of theories, principles, and practices of human resources management. The contents encompass: viewing organizations and human resources as inter-related systems; a review of human resources functions and programs; staffing the organization and its various components; human resources training and development; the role and impact of the work environment on employees, management, and the organization; the development and role of employee relations; and kinds and importance of remuneration and security programs. Prerequisite: MKMG—211.

**MKMG—334. International Marketing 3 credits**

The student is introduced to a systematic treatment of global marketing. The emphasis is on the problems and opportunities available to exporters of U.S. products and services, as well as organizations with multinational or global operations. Attention is devoted to cultural, social, and economic factors that affect marketing on a global scale. Suggested for students enrolled in International Studies, Foreign Languages and Business Program. Prerequisites: MKMG—212, ECON—101.

**MKMG—338. Labor Relations 3 credits**

A broad treatment of labor-management relations in both the private and public sectors. The course will encompass: the historical development of the labor movement; modern society and industrial relations; management philosophy regarding employee relations and organized labor; labor legislation and its social, economic, and political impact; collective bargaining, its scope and process; contract administration principles and practices; and labor relations issues and trends. Major emphasis will be placed on: the How-to and Experiential activities via projects, case studies, professional and practitioner speakers, and so forth. Prerequisite: MKMG—211.

**MKMG—339. Leadership in Organizations 3 credits**

An advanced management course aimed at providing students with in-depth knowledge on the various leadership theories and insight into effective leadership practices. A critical examination of leadership theories and research will be undertaken. Areas of leadership covered include management versus leadership, trait theories of leadership, behavior theories of leadership, participative leadership and delegation, power and influence, situational leadership, and “modern” theories of leadership. Emphasis will also be placed on providing an opportunity to apply the theories in practical business applications. Prerequisites: MKMG—211 or permission of instructor.

**MKMG—429. Organizational Behavior 3 credits**

Organizational behavior is an application of the principles of the behavioral sciences to the functions, needs, and role of management. The specific principles that comprise the foundation of organizational behavior

have been provided by the theories, methods, and principles of such diverse disciplines as psychology, sociology, industrial engineering, organization theory, and communication systems. Topics covered include: organizational culture, decision making skills, group and intergroup behavior and productivity, nonverbal and interpersonal communication skills, participatory management, organization development (OD) and change, stresses in managerial work life, quality of work life, improving subordinate performance, and developing effective organizations. Prerequisite: MKMG—211.

**MKMG—435. Marketing Management 3 credits**

An advanced marketing course which utilizes a universal, analytical approach to solving marketing problems at the executive marketing and managerial level. The course draws heavily from materials found in marketing principles, economics, mathematics, and the behavioral sciences, presented to the student in a textual format. Each student will participate in the analysis of case studies to gain experience and skill in the strategy decision-making process. Prerequisites: MKMG—212, QBUS—100.

**MKMG—436. Marketing and Management Research Methods 3 credits**

Research is the objective process of collecting and analyzing data in order to aid in the marketing and managerial decision making process. Major topics include survey and sampling methodologies, questionnaire construction, observation and experimental methodology, plus secondary data gathering. Students engage in research projects, and interpret statistical analysis of output from a computer statistical package. Prerequisites: MKMG—212, QBUS—200.

**MKMG—437. Applied Marketing and Management Research 3 credits**

Research is increasingly utilized by managers. Students will benefit from a better understanding of exactly how research is conducted by participating in a genuine, professional research project. This project focuses on defining the problem, designing the appropriate methods and strategies for gathering data, analyzing and interpreting the data, and reporting the findings to the particular client. Practical knowledge of a statistical software package is an integral part of the course. Prerequisites: MKMG—436; QBUS—200; CSIS—010 or equivalent.

**MKMG—440. Performance Appraisal, Work Behavior and Motivation 3 credits**

An upper level course which gives students the opportunity for theoretical analysis and practical application in understanding the relationship between respect for people, performance dimensions, motivation and work behavior. This will be accomplished by studying theories of workplace motivation, methods of performance appraisals, and assessing human behavior at work. The course will review current research, methodologies, and uses of performance appraisal; goal setting theories; determinants of goal commitment; and, the motivation-performance relationship. Prerequisite: MKMG—332.

**MKMG—450. Business Policy and Strategy 3 credits**

Through the use of the case method, students examine and analyze business policy and strategic planning decision making in real and simulated organizations. A wide range of cases are included from small companies to global conglomerates to non-profits. Topics include mission, goals and objectives, internal and external environments, formulation of alternative strategies, selection of preferred strategy, implementation and evaluation. Open only to senior Marketing and Management majors, or by permission of the Department Head. Prerequisite: MKMG—429 or MKMG—435.

**MKMG—490. Seminar: Topics in Marketing and Management 3 credits**

This course is intended to provide opportunities for concentrated study at an advanced level in areas beyond the scope of regular course offerings including topics of current concern and topics specifically identified as meeting specialized interests of students. This course is offered on an irregular basis. It may be taken more than once with different course content. Prerequisite: There are no specific prerequisites. The seminar is an elective, open to seniors in Marketing and Management. Depending on the topic, it might also be cross-listed with other Departments and/or open to seniors in other majors. In all cases, approval of the Instructor is required.

**MKMG—499. Independent Study 1 - 3 credits**

A qualified student, with the consent of the Head of the Marketing and Management Department, the Dean of the School of Business, and a participating faculty member of the department, may pursue further research and study on a particular topic in Marketing or Management. The student will be directed by the participating faculty member. The number of credits to be awarded (1 to 3) will be submitted to the department head for approval by the participating faculty member. The student will meet with the faculty member for periodic discussion. The student will also submit a satisfactory written report to the faculty member concerned. The student will be expected to comply with all School of Business guidelines concerning such projects. Independent study may be taken twice for credit.



## Quantitative Business Analysis Department

*Head:* Mr. Gary B. Franko, *Asst. Prof.*

*Prof.:* Dr. Douglas A. Lonnstrom, Dr. James R. Nolan

*Assoc. Prof.:* Mrs. Carol P. Venezia

*Asst. Prof.:* Mr. William E. Engelhardt, Dr. John C. O'Neill

This department provides students with the analytical tools necessary for making better management decisions. In order to appraise and evaluate quantitative information, every student is introduced to several mathematical techniques that can be applied to business situations. This is followed by a comprehensive treatment of analytical processes for decision making. These introductory courses in applied mathematics cover the techniques of problem formulation and solution.

Subsequent courses emphasize the application of additional mathematical concepts and analyses useful for decision making in businesses, government agencies, and other organizations. A broad range of analytical skills are covered by these additional courses.

### Description of Courses

#### **QBUS—100. Mathematics for Decision Making I**

**(3 hours lecture) 3 credits**

Mathematical techniques applied to business situations. The topics include mathematics of finance, linear equations and functions, graphs of functions, systems of linear equations, inequalities, linear programming, and non-linear models. This course should be the first course taken in quantitative business. A graphics calculator is required; the TI-83 calculator is recommended. Prerequisites: none. (ATTR: ARTS, CAQ)

#### **QBUS—110. Mathematics for Decision Making II**

**(3 hours lecture) 3 credits**

This course completes the coverage of mathematical techniques for business situations, introducing additional mathematical techniques including applied calculus. The topics covered include nonlinear models, derivatives, graphing and optimization with derivatives, and integration. A graphics calculator is required; the TI-83 calculator is recommended. Prerequisite: QBUS—100. (ATTR: ARTS, CAQ)

#### **QBUS—200. Business Statistics I 3 credits**

An introductory course in business statistics covering the topics of descriptive statistics, discrete probability distributions, the normal distribution, sampling distributions, estimation, hypothesis testing, statistical quality control, simple linear regression and correlation. A statistical software package is used. A graphics calculator is required; the TI-83 calculator is recommended. Prerequisites: QBUS—110, CSIS—010 or equivalent. Not open to students who have taken ATDV—110.

**\*\*\*QBUS—210. Business Statistics II 3 credits**

A study of applied statistical methodology. Using Statistics I as a foundation, the following topics are covered: experimental design and analysis of variance, multiple regression, nonparametric statistical methods, Bayesian decision making, time series and discriminant analysis. Prerequisite: QBUS—200.

**QBUS—300. Operations Management 3 credits**

A study of the principles and the applications used in operations management. The topics covered include product design and process selection, quality management and statistical quality control, Just-in-Time production, forecasting, and supply chain management. Prerequisites: QBUS—100, 110 or MATH—110; QBUS—200 or ATDV—110 or MATH—270.

**\*\*\*QBUS—310. Management Science 3 credits**

A study of the quantitative methods used in Management. The topics covered, both in theory and application, include goal, integer and dynamic programming, inventory control, simulation techniques, transportation and assignment problems, queuing, network models, Markov chains, and Heuristics. Prerequisites: QBUS—100, 110 or MATH—110; QBUS—200 or ATDV—110 or MATH—270.

**QBUS—495. Independent Study 1 - 3 credits**

A qualified student may pursue a particular topic/project in the field of Quantitative Business Analysis in his/her junior or senior year. The project requires the approval of the faculty member involved, the Department Head and the School of Business Dean. The number of credits to be awarded (1 to 3) will be determined by the Department Head.

A satisfactory written report will determine the final grade. Independent Study may be taken twice for credit. Prerequisites: QBUS—100, 110 or MATH—110, 120; QBUS—200 or ATDV—110, or MATH—270; and one course from QBUS—210, 300 or 310; junior or senior status; permission of Department Head and School of Business Dean.



*\*\*\* Offered when there is sufficient student interest*

# School of Science

Dean: Dr. Thomas Coohill; Asst. to the Dean: Ms. Angela L. McKeever

## School of Science Courses

### **SCDV—001. Topics in Science 3 credits**

This course will be taught with varying subject content. It deals with topics that cross normal departmental boundaries. The particular content will be indicated by subtitle. School of Science students may take this course for elective credit only. It may be taken more than once with different content.

### **\*\*\*SCDV—002. Literary Perspective on Women in Science 3 credits**

The lives and work of women scientists in the fields of physics, astronomy, chemistry, mathematics, and biology will be examined. Both biographies and scientific studies will be utilized to study the ways in which gender has affected career choices, education, patterns of scientific work, and the recognition of achievement. The course will emphasize discussion of assigned readings as well as research and writing. Prerequisite: Junior standing. This course does not satisfy the mathematics/science core requirement.

### **SCDV—010. Discovery Science 3 credits**

An interdisciplinary course in the sciences, taught through lecture and laboratory, with the emphasis on learning by discovery. Topics covered include the nature of energy and matter, processes of change in the universe, and the evolution of life. No Prerequisites. Lab Fee.

### **SCDV—210. Human Anatomy and Physiology I (3 hours lecture, 3 hours laboratory) 4 credits**

Lecture and accompanying lab focused on the structure and function of the human body. Emphasis will be on organization of the human body, musculo-skeletal, and nervous systems. Designed for Allied Health students. Biology major must have the permission of the department to take this course and may not use it to fulfill the anatomy or physiology requirements for the major. Lab fee.

### **SCDV—211. Human Anatomy and Physiology II (3 hours lecture, 3 hours laboratory) 4 credits**

Lecture and accompanying lab focused on the structure and function of the human body. Emphasis will be on metabolism, homeostasis, reproduction, and major organ systems. Designed for Allied Health students. Biology major must have the permission of the department to take this course and may not use it to fulfill anatomy or physiology requirements for the major. Prerequisite SCDV—210. Lab fee.

\*\*\* Offered when there is sufficient student interest

**SCDV—480. Internship in Science 1 - 3 credits Field Study, 45-135 hours**

Field study in subject areas covered by the departments of Biology, Chemistry, Computer Science, Mathematics, or Physics. The primary objective is to develop in the student an awareness of how theoretical concepts are converted into applications of value in today's society through participation in ongoing applied or basic research or development programs in the facilities of business, industry, and government. Students will work approximately 6 hours per week for 1 credit, 9 hours per week for 2 credits, or 12 hours per week for 3 credits. The time may be spent on a single project or on a variety of tasks agreed upon by the School of Science Intern Coordinator and the supervisor. Students will be required to keep a log of their activities and to prepare a summary report of their experience at the end of the semester. At the request of the host institution and the discretion of the Intern Coordinator, a student may extend the internship until a total of six credits has been earned. No students may apply more than 6 credits of internship experience in any combination of fields towards their degree (except for international internships). May be taken on a pass/fail grading system only, but does not count against the one elective pass/fail option per semester. Offered during the summer and academic year. Prerequisites: Junior standing, 14 or more credits in a single department in the School of Science (Internship must be in a subject covered by this department), and permission of the School of Science Intern Coordinator, Dr. Mary Ann Egan.

**SCDV—499. Independent Study in Science 1 - 3 credits**

This course provides an opportunity for seniors with a 3.0 or above to pursue independent study that is interdisciplinary or that does not fit within a single department's guidelines. The permission of a faculty member and the Dean is required.

**SCDV—781. International Internship, Science 3 - 8 credits**

A student may earn 3-8 credits by serving as an intern in a foreign country. Placements are available for students from each school. The nature of the internship will determine which school will allocate credit. Typical opportunities include work in parliaments, law offices, theatres, museums, non-profit organizations, banking, hospitals and businesses. Students will work from 10 to 32 hrs. a week, depending on the program selected. The internship will involve a sizeable research project linked to the work undertaken. Prerequisites: students must be at least juniors, demonstrate self-motivation, good communication skills and trustworthiness. The GPA requirement is 2.75. Students who wish this internship to be counted as an equivalent to an internship in a department, must receive advance permission from the head of that department.



## Biology Department

*Head:* Dr. Kenneth Helm, *Assoc. Prof.*

*Prof.:* Dr. James Angstadt, Dr. George F. Bazinet, Dr. Patricia S. Brown, Dr. Nancy Burdick Elliott, Dr. Douglas F. Fraser, Dr. John H. Hayden, Dr. Edward J. LaRow, Dr. Lawrence L. Woolbright, Dr. Andrea H. Worthington

*Assoc. Prof.:* Dr. Rachel Sterne-Marr, Dr. Lise D. Wilson†, Dr. Nina Zanetti‡

*Asst. Prof.:* Dr. Carlos Christopher Amaya

*Visiting Asst. Prof.:* Dr. Loretta M. Memmo

*Lecturer:* Dr. Steven Pinheiro, Dr. Lynnell Radlick

The Biology Department develops in each student an appreciation for contemporary issues in biology and an understanding of the principles governing life through a laboratory-intensive curriculum taught by faculty dedicated to enriching the learning experience. A variety of courses, coupled with an effective advising system, prepares the Biology major for:

- 1) Professional studies in the areas of medicine, dentistry, optometry, veterinary medicine, chiropractic and other health-related fields such as physical therapy and physician's assistant.
- 2) Graduate studies in sub-specialties of Biology including Animal Behavior, Biochemistry, Botany, Cell Biology, Conservation Biology, Developmental Biology, Ecology, Endocrinology, Environmental Biology, Evolution, Forensic Science, Genetics, Immunology, Microbiology, Molecular Biology, Neuroscience and Physiology.
- 3) Secondary education certification in collaboration with the Education Department.
- 4) A variety of other careers including public health administration, genetic counseling, bioinformatics and jobs in the pharmaceutical and biotechnology industries.

† *Sabbatical leave, Fall 2002*

‡ *Sabbatical leave, Spring 2003*

A major emphasis of our program is to encourage critical thinking and an active engagement in the biological sciences. We do this by keeping class sizes small and including a laboratory experience as an integral component of most courses. Many laboratories incorporate an independent project where students build on the concepts and techniques they have learned by designing and carrying out an experiment of their choice. Some examples of recent projects include studies of cartilage and bone formation in chick embryos, diversity of fish species in local streams, hormonal modulation of neuronal impulses, host plant selection by a tropical shieldbug, and purification of wheat germ acid phosphatase.

Students in our morphology, physiology, and cell/molecular oriented courses obtain hands-on experience with the most modern techniques and equipment in biology, including: high quality stereo-dissecting; compound, phase and fluorescence microscopes; electrophoretic equipment and computer software for DNA/RNA analysis; PCR thermocyclers; an electroporator for gene transfer; hybridization ovens for Northern and Southern blotting; UV/visible spectrophotometers; a variety of centrifuges including microfuges and ultracentrifuges; state-of-the-art chromatographic and electrophoretic equipment for protein purification and immunoblotting; micromanipulators, intracellular amplifiers and computer-based data acquisition systems for muscle physiology and neurobiology; a microtome, tissue culture facility and dark room.

Other courses, such as vertebrate biology and general, plant, and tropical ecology, are truly field oriented—most laboratories involve trips that teach students how to make observations and collect data by standard sampling techniques. Further, many of these laboratories introduce students to environmental issues and applied problems. For example, students on a winter field trip to the Connecticut coast conduct a quantitative survey of overwintering ducks and geese. Students learn census procedures and how to think critically about the impacts of environmental pollutants, such as oil spills, and disturbances, such as water boat traffic, on these birds. Due to our proximity to the Adirondacks and other wildlife preserves, field biology studies are enriched by day and weekend trips to these nearby sites. Students also have the opportunity to do extensive study in the tropics.

Our program encourages research experience by offering credit for Independent Research (on-campus) or Science Internship (off-campus) in biology. Each faculty member maintains a research laboratory where students may carry out research with a professor in a one-on-one situation. When classes are not in session, some students accompany their professors to research field stations in Trinidad, the Bahamas, and Puerto Rico. Research experience is open to all interested students and is especially effective in helping students to develop an appreciation of their creative and investigative skills. Many students present their findings in our annual student research poster session or Biology Department seminar, and some publish their work in scientific journals and books.

*Requirements for the Major:* A competent biologist must have a strong foundation in science and mathematics. Biology majors must take 16 credit hours of chemistry (Introductory Chemistry, Quantitative Chemistry, Organic Chemistry I, II), eight hours of mathematics (Calculus I & II), and eight hours of physics (General Physics IA, IIA or General Physics I, II). There are no language requirements. Research involvement is encouraged for all students, especially those interested in graduate work. Research experience can be gained through BIOL—499 Independent Research in Biology or SCDV—480 Science Internship (see School listing). A minimum of 36 credits in Biology are required. These must include the following 11 courses: General Biology I or Advanced General Biology Lecture, General Biology II or Advanced General Biology Seminar, Molecular Genetics (3 or 4 credits), Scientific Writing and one additional course from each of the following areas:

I	II
MORPHOLOGY	PHYSIOLOGY
Biology of Invertebrates (BIOL—250)	Animal Physiology (BIOL—430)
Comparative Anatomy (BIOL—255)	Comparative
Developmental Biology (BIOL—335)	Endocrinology (BIOL—435)
Histology (BIOL—340)	Neurobiology (BIOL—440)
	Plant Physiology (BIOL—445)
III	
ORGANISMIC & POPULATION BIOLOGY	
Ecology (BIOL—225)	Tropical Biology (BIOL—235)
Biology of Vertebrates (BIOL—230)	Plant Ecology (BIOL—240)
Behavioral Ecology (BIOL—325)	Tropical Marine
Ichthyology (BIOL—350)	Ecology (BIOL—245)
	Arthropod Biology (BIOL—330)
IV	
CELLULAR AND MOLECULAR BIOLOGY	
Cell Biology (BIOL—220)	
Microbiology (BIOL—320)	
Biochemistry (BIOL—420)	
Molecular Biology (BIOL—425)	

The additional three courses may be selected from any department offerings with the exception of Topics in Environmental/Population Biology, Topics in Human Biology, Human Biology, Genetics Lab, and Biology Seminar. Independent Research in Biology (BIOL—499) may fulfill up to two of the three additional courses but only if the course is taken for 2 or 3 credits. Biology faculty will assist the student in selecting courses best suited for the individual's career goal.

Consistent with College policy, students majoring or minoring in biology must earn a C- or better in any biology course listed as a prerequisite for another biology course. Students who fail to meet this criterion

may be removed from the class roster prior to the start of classes. Students will be notified in advance of any such changes.

BIOL—220, Cell Biology should be taken following BIOL—120, General Biology, normally in the student's third semester.

BIOL—190, Scientific Writing should be taken while the student is taking General Biology or Cell Biology.

*Requirements for the Minor:* Minor will consist of at least 18 credit hours in Biology and must include an introductory sequence in General Biology for biology majors (BIOL—110 or BIOL—170, BIOL—120 or BIOL—180) or social science majors (BIOL—130 and BIOL—140) plus an additional four courses. The following courses will not count toward the minor: BIOL—010, BIOL—020, BIOL—025 or BIOL—040.

*Environmental Studies:* Siena offers a certificate program for students interested in this interdisciplinary topic. This program may be combined with the Biology major for students interested in Environmental Biology. Requirements for the certificate and descriptions of ES courses are given in the Environmental Studies Program description.

*Education Certification:* Students seeking admission to the Biology certification sequence should be approved by both the Biology Department and the Education Department no later than the junior year. Requirements for initial approval, as well as admission to the professional semester, will normally include a minimum GPA of 3.0 in biology, 2.75 overall, and demonstration of strong communication skills. Certification students are required to complete all courses required for the major in biology. An additional 24 hours of education courses are taken in consultation with the Education Department. Included in these is Instructional Theory and Practice in Science (EDUC—481) which will be allowed to substitute for one elective course in biology. It is anticipated that returning and continuing students seeking biology certification will have fulfilled all the above requirements (or their equivalents in the case of coursework). Under certain circumstances, applicants with relevant life experience may apply for an individualized program involving updating of background and demonstration of competence with advanced coursework in biology.

*Pre-environmental Science/Forestry Program:* Students interested in a B.S. degree in environmental science or forestry may enter a cooperative program between Siena and SUNY-Syracuse. The SUNY-Syracuse School of Environmental Science and Forestry accepts transfer students at the junior level. The first two years of the bachelor's degree may be taken at Siena. Siena and SUNY-Syracuse have developed a cooperative program that guarantees acceptance of all credits earned at Siena following this program with grades of C or better. Students who apply to SUNY-Syracuse after successful completion of their sophomore year may generally expect to be granted admission with full junior status.

The general requirements for this program are: General Biology I, II; Introductory Chemistry, Quantitative Chemistry; Calculus I, II; General Physics for Life Sciences I, II; Organic Chemistry I, II and additional courses (at least six additional Biology credits) selected in consultation with the Biology Department's ESF advisor, Dr. Douglas Fraser.

*Albany Medical College Early Assurance Program for Underrepresented Students:* Albany Medical College will accept two underrepresented students at the completion of the sophomore year. The accepted students remain at Siena and complete their degree in the major of their choosing. To be eligible to apply, students must have completed half of the required premedical courses with a 3.2 overall and science gpa. The required courses are: General Biology I & II, General Chemistry I & II, Organic Chemistry I & II, General Physics for Life Sciences I & II.

*Albany Medical College Program in Science, Humanities and Medicine:* Personally and academically talented high school seniors who have demonstrated a commitment to the service of others will be jointly accepted by Siena and Albany Medical College into a unique eight-year program of medical education. An extended commitment to volunteer service is required of all program participants during the summer between the junior and senior years. These students receive a B.A. in Biology after completing this program of study: General Biology lecture and lab (I and II) or Advanced General Biology and Advanced General Biology Seminar (with labs), Scientific Writing, Cell Biology, Molecular Genetics (3 or 4 credits), Biochemistry, 2 credits of Biology Seminar (with medical topics as subject), 1 course each from the Morphology, Physiology and Organismic/Population areas (minimum of 33 credits in Biology). Students also take Calculus I, Calculus II, Introductory Chemistry, Quantitative Chemistry, Organic Chemistry I and II, Physics for Life Sciences I and II. The core requirement will include Great Books (ENGL—090), Level One History Honors Seminar (HIST—190), General Psychology and Morals and Medicine. Remaining core is the same as for all other students. Additional required humanities include Ethics, Interdisciplinary Studies and Interpersonal Communications Skills. A 5-course (15 credit) sequence of humanities courses will be selected with the assistance of an advisor. This sequence should form a coherent concentration. This program requires 122 credits. Only students in this program are eligible for the B.A. in Biology.

*Boston University Goldman School of Graduate Dentistry:* Up to five rising sophomores may be accepted into this accelerated program leading to the D.M.D. degree. Students enrolled in this 7-year program will complete the first three years of pre-professional training at Siena College. They will enroll at BUSGD beginning their fourth year. Students will be awarded a B.S. in Biology by Siena College upon successfully completing their first year at BUSGD. A variety of experiences to expose the student to the dental profession will be offered during the Siena phase of the program.

*SUNY at Buffalo School of Dental Medicine. (Early Assurance Program):* The cooperative program between Siena College and SUNY at Buffalo School of Dental Medicine was designed to assure an undergraduate student an acceptance into dental school after two years of study, thus allowing completion of their four-year undergraduate education without concern for admission to professional school. During the third year at Siena, program participants must gain experience in clinical dentistry and are permitted to participate in the summer research program at Buffalo School of Dental Medicine.

*Pennsylvania College of Optometry Program in Optometry. (Accelerated program):* Siena and Pennsylvania College of Optometry offer a time-shortened program leading to an optometry doctorate. Qualified Siena students will be accepted to Pennsylvania College of Optometry after completing three years in Siena's accelerated Biology curriculum. Siena College will grant the Bachelor of Science Degree when the student has completed their first year of professional study.

*State University of New York College of Optometry Joint Affiliation. (Accelerated program.)* Up to six students per year may be admitted into a seven year Bachelor of Arts or Science and Doctor of Optometry (O.D.) Program. Students accepted to the Joint Degrees Program are admitted to a designated, prescribed major at Siena College and simultaneously admitted to candidacy to the SUNY College of Optometry's professional program of study. Students complete three years of pre-professional training at Siena College. They will enroll at SUNY Optometry beginning their fourth year. Students will be awarded a B.S. in Biology upon successfully completing their first year at SUNY.

*State University of New York College of Optometry Early Assurance Program.* This is an eight year program designed to assure high ability undergraduate students an acceptance into a Doctor of Optometry program at the end of their second year at Siena. Students complete their undergraduate work prior to continuing on to professional aspects of their program.

*Temple University College of Podiatric Medicine Affiliated Program. (Accelerated Program).* This seven year program leads to both the B.S. degree and the D.P.M. degree. After successful completion of their first undergraduate year, students may be accepted to PCPM. The students complete three years of pre-professional training at Siena. Students will be awarded a B.S. degree in Biology upon successfully completing their first year at PCPM.

*Advanced Placement (AP) Biology:* Students must have scores of 4 or higher on the AP examination. The course sequence for those students approved by the department will be: *Fall Semester:* Advanced General Biology (BIOL—170) 3 credits, General Biology I Lab (BIOL—111); *Spring Semester:* Advanced General Biology Seminar (BIOL—180) 1 credit, General Biology II Lab (BIOL—121). Upon successful completion of this sequence (all grades C- or better), students will be granted 3 credits for their AP exam, giving them a total of nine (9) Biology credits in their freshman year.

*Department Colloquia:* In order to help inform the student about the latest developments in the biological sciences, the department schedules colloquia (non-credit) on several Friday afternoons during the course of the semester. These colloquia feature guest lecturers from other institutions, Siena faculty reporting their research results, and students presenting results of independent research projects. Several sessions are designed to provide information about the career options available to Biology graduates. The attendance of all Biology majors is expected.

*Allied Health Professions:* Students seeking admission to Physician's Assistant or Physical Therapy programs after graduation are encouraged to register for SCDV—210 and SCDV—211, Human Anatomy and Physiology. These courses require written permission of the instructor.

### Description of Courses

*BIOL—170 and 180 may substitute for BIOL—110 and 120 whenever 110 and/or 120 are listed as prerequisites for Biology courses.*

#### **BIOL—010. Topics in Environmental/Population Biology (3 hours lecture) 3 credits**

This course will be offered with emphasis on different topics. The content will be designated by subtitle. Students may take this course more than once with different content. Not open to Biology majors. This course is designed to fulfill part of the School of Science Core requirement for School of Liberal Arts and School of Business students. (ATTR: ARTS, CAN)  
Examples of special topics include:

##### **Principles of Evolution**

Major evolutionary principles will be analyzed to develop an understanding of human origins. Topics covered include: The history of evolutionary theory, genetic basis of evolution, ecological basis of evolution, and current evolutionary theory. (ATTR: ARTS, CAN)

##### **Animal Behavior**

An evolutionary approach to the study of animal behavior. Topics include an introduction to genetics and evolution, the evolution of behavior, social behavior, reproductive and parental behavior, and competition. (ATTR: ARTS, CAN)

#### **BIOL—020. Topics in Human Biology (3 hours lecture) 3 credits**

This course will be offered with emphasis on different topics. The content will be designated by a subtitle. Students may take this course more than once with different content. Not open to Biology majors. This course is designed to fulfill part of the School of Science Core requirement for School of Liberal Arts and School of Business students. (ATTR: ARTS, CAN)  
Examples of special topics include:

## Nutrition

This course is designed to help students evaluate their eating habits based on quantity and distribution of nutrients. Topics will include the chemical nature and biological function of the six classes of nutrients: carbohydrates, lipids, proteins, vitamins, minerals, and water. Additionally, current nutritional ideas on health and disease will be examined. (ATTR: ARTS, CAN)

## Drugs and the Human Body

Covers the biochemistry and physiology of drug action. Topics will include stimulants, depressants (rohypnol and alcohol), analgesics (pain relievers), steroids (oral contraceptives, RU486 - the abortion pill, and anabolic steroids), marijuana, hallucinogens, and drugs used to treat depression and anxiety. Emphasis will be placed on how these drugs work and how they affect the human body.

## Biology of Breast Cancer

A study of breast cancer through the lens of evolutionary medicine. Lecture, discussion and laboratory work on breast cancer will be used to explore how the biological disciplines of cell and development biology, endocrinology, genetics, and environmental biology are related to this disease. Studies of breast cancer screening, treatment, and incidence will be used to explore theories of cancer, and the use of evidence-based medicine. Illness narratives will be used to explore the cultural attitudes about breasts, lactation and breast cancer. A major emphasis of the course is the development of skill in reading primary medical literature on breast cancer. (ATTR: ARTS, CAN)

## BIOL—025. Human Biology (3 hours lecture) 3 credits

This course covers the principles of anatomy, physiology and genetics as applied to human health and disease. Content is focused on four systems: genetics and development, cardiovascular system, neuro-muscular system and digestive system and nutrition. Through study of clinical applications, students will understand 1) the biological basis of human diseases, 2) the physiological consequences of disease progression, including treatments and prevention and 3) how to access and use medical and scientific information to investigate questions in human biology. Demonstrations, experiments and readings will support these topics and allow exploration of ethical and other issues relevant to human biology. In addition, all students will take part in a long-term independent investigation of a case study in human health. Not open to biology majors. *This course is designed to fulfill part of the School of Science Core requirement for School of Liberal Arts and School of Business students.* (ATTR: ARTS, CAN)

**BIOL—040. Non-core Topics in Biology (3 hours lecture)  
3 credits**

A topics course similar to BIOL—010 and BIOL—020, except the topics offered have not been approved to fulfill the School of Science Core requirement for School of Liberal Arts and School of Business students. Students may take this course more than once with different content. Not open to Biology majors. Does not count towards College Core.

**BIOL—110. General Biology I (3 hours lecture,  
3 hours laboratory) 4 credits**

Lectures covering the general principles of Biology with evolution as the unifying theme. Topics include the scientific method, mechanisms of evolution, genetics, biochemistry, cell structure and function. Lab work includes experiments designed to illustrate basic biological concepts. Emphases include developing and testing hypotheses and writing laboratory reports. Lab fee. (ATTR: ARTS, CAN)

**BIOL—120. General Biology II (3 hours lecture,  
3 hours laboratory) 4 credits**

This course is a continuation of BIOL—110. Emphasis is on the diversity of living organisms including morphology, phylogeny, physiology, and ecology of major taxa. Lab work includes experiments designed to illustrate basic biological concepts. Emphasis is on the diversity of life. Lab fee. Prerequisite: BIOL—110. (ATTR: ARTS, CAN)

**BIOL—130. General Biology IA for Social Sciences  
(3 hours lecture, 3 hours laboratory) 4 credits**

Lecture and laboratory covering fundamental principles of biology including the scientific method, Darwinian theories on evolution and natural selection, cell theory and the genetic basis of evolutionary change. The course concludes with an introduction to cell biology, with an emphasis on organelle structure and function. Required course for Psychology Majors. Not open to Biology majors. Lab fee. (ATTR: ARTS, CAN)

**BIOL—140. General Biology IIA for Social Sciences (3 hours  
lecture, 3 hours laboratory) 4 credits**

This course is a continuation of BIOL—130. Lecture and laboratory covering the general principles of physiology with emphasis on human physiology. Topics covered include homeostasis, complementarity of structure and function, and the physiology of a variety of organ systems. Prerequisite: BIOL—130 or BIOL—110. Required course for Psychology majors. Not open to Biology majors. Lab Fee. (ATTR: ARTS, CAN)

**BIOL—170. Advanced General Biology  
(3 hours lecture, 3 hours laboratory) 4 credits**

This course is designed for students who have taken advanced placement biology in high school and achieved a score of 4 or higher on the AP exam. Topics include evolution, classification, and diversity. Students enrolled in this course will choose from the same laboratory sections as

those in BIOL—110. Prerequisite: permission of department. Not open to students who have taken BIOL—110 or BIOL—120.

**BIOL—180. Advanced General Biology Seminar  
(1 hour recitation, 3 hours laboratory) 2 credit**

A survey of contemporary writings in the biological sciences designed to acquaint students with recent advances in the field and with the progression of biological thought. Students enrolled in this course will choose from the same laboratory sections as those in BIOL—120. Prerequisite: BIOL—170.

**BIOL—190. Scientific Writing (1 hour lecture, 1 hour recitation) 2 credits**

This course should be taken concurrently with BIOL—120 or BIOL—220. The purpose of this course is to enable the student to present original data in a clear and well-organized report, modeled after the format of original scientific research papers in Biology. Students will become acquainted with various types of scientific writing, will practice data analysis and presentation, and will write, revise, and edit original data reports. The recitation hour consists of a workshop in writing, revising, and evaluating scientific papers.

**BIOL—220. Cell Biology (3 hours lecture, 4 hours laboratory) 4 credits**

A study of the molecular organization of cells as it relates to function. The plasma membrane, the various membranous organelles, the nucleus, and the cytoskeleton are correlated to membrane transport, respiration, photosynthesis, cell growth and division, cell communication, basic genetic mechanisms, and cell motility. The labs are correlated to the lecture topics and are designed to introduce students to the techniques and equipment used in modern cell and molecular biology research. Prerequisites: BIOL—110, 120. Lab fee.

**BIOL—225. Ecology (2 hours lecture, 4 hours laboratory) 3 credits**

A study of the interrelations of organisms with each other and the environment. The lectures are equally divided between ecosystem ecology (energy and material flux, modeling) population ecology (population dynamics, competition, predation) and community ecology (structure, diversity, and succession). The lab will emphasize methodology with weekly field trips to various local habitats. One weekend field trip to the Adirondack mountains is required. Prerequisites: BIOL—110, 120 or permission of the instructor. May be taken as ENVA—250. Lab fee.

**BIOL—230. Biology of the Vertebrates (2 hours lecture, 4 hours laboratory) 3 credits**

A study of the vertebrates with emphasis on life cycles, adaptations, ecology, behavior, and taxonomic relationships. Includes studies of local species in their natural habitats, laboratory exercises, and individual projects or research papers. At least one weekend field trip is scheduled. Prerequisites: BIOL—110, 120. Lab fee.

**BIOL—235. Tropical Biology (2 hours lecture, 2 week field trip)  
3 credits**

A study of ecological processes in tropical ecosystems, emphasizing the ecology of tropical rainforests. The laboratory portion of the course will involve two weeks of intensive field work in a tropical rainforest. Prerequisites: BIOL—110, 120 or equivalent. There is a separate field trip fee. Because this field experience occurs after May Commencement, seniors may not use this course to meet graduation requirements. Seniors may take this course if a.) they are willing to miss Commencement and b.) they meet all graduation requirements without this course. As an alternative, seniors may postpone graduation until August. Offered alternate years with BIOL—245. May be taken as ENVA—272.

**BIOL—240. Plant Ecology (2 hours lecture, 4 hours laboratory)  
3 credits**

Lectures cover in detail the natural history and ecology of plants with an emphasis on the communities of northeastern North America. Laboratories include field studies of local plants and two overnight weekend field trips to unique plant communities in the region. Prerequisites: BIOL—110, 120. May be taken as ENVA—255. Lab fee.

**BIOL—245. Tropical Marine Ecology (2 hour lecture, 2 week field trip) 3 credits**

A study of ecological processes in marine environments of the tropics. Lectures will emphasize the application of basic ecological principles to life in the ocean, then focus on characteristics of marine habitats in the tropics and of the groups of organisms that occur there. The laboratory portion of the course will involve two weeks of intensive field work at a tropical marine laboratory. Prerequisites: BIOL—110, 120 or equivalent. There is a separate field trip fee. Because this field experience occurs after May Commencement, seniors may not use this course to meet graduation requirements. Seniors may take this course if a.) they are willing to miss commencement, and b.) they meet all graduation requirements without this course. As an alternative, seniors may postpone graduation until August. Offered alternate years with BIOL—235. Same as ENVA—274.

**BIOL—250. Biology of the Invertebrates (2 hours lecture,  
4 hours laboratory) 3 credits**

A study of the morphology, physiology, ecology, and phylogenetic relationships of the invertebrates. The laboratory includes dissection of characteristic members of each phylum and experiments dealing with physiology and behavior. Prerequisites: BIOL—110, 120. May be taken as ENVA—260. Lab fee.

**BIOL—255. Comparative Anatomy of the Vertebrates (3 hours lecture, 3 hours laboratory) 4 credits**

A study of the taxonomy, morphology, and evolution of the vertebrates. Emphasis will be placed on the nature of evolutionary processes and

the resulting modifications in vertebrate morphology and function. The laboratory involves the detailed dissection of representative vertebrates. Prerequisites: BIOL—110, 120. Lab fee.

**BIOL—260. Molecular Genetics (3 hours lecture, 4 hours laboratory - optional) 3 or 4 credits**

Lecture: A review of classical genetics coupled with an introduction to molecular genetics. Topics include Mendel's laws, linkage, complex traits, genetic analysis, biochemistry of nucleic acids, gene expression, molecular cloning, gene therapy, human genome project and other contemporary topics. Prerequisites: BIOL—220, CHEM—210 or permission of the instructor.

Optional laboratory: Use of the model genetic organisms, *Escherichia coli*, *Saccharomyces cerevisiae* and *Arabidopsis thaliana*, to demonstrate the power of genetic research. Students will use techniques of classical and molecular genetics to generate and characterize mutants. **Laboratory may be taken independently for 1 credit if BIOL—260 was completed previously as lecture only (3 credits) with a grade of C or better.**

**BIOL—265. Principles of Evolution (3 hours lecture) 3 credits**

A survey of the synthetic theory of organic evolution. Major topics include: historical development of evolutionary thought, population genetics, speciation mechanisms, and adaptation. Basic evolutionary theory will be complemented with a review of empirical evidence relating to the evolutionary processes in both natural and experimental populations. Topics in human evolution will be covered which include: the origin of man, evolution of bipedalism, and tool use. Prerequisites: BIOL—110, 120.

**BIOL—320. Microbiology (2 hours lecture, 4 hours laboratory) 3 credits**

Lectures cover the morphology, physiology, and classification of bacteria, molds, yeast, and fungi. Laboratory work consists in employing the standard techniques of bacteriological staining; the culture of microorganisms on various media to determine their morphological and physiological characteristics; the isolation of microorganisms from soil, water, plants, and insects; and representative exercises which give an insight into the respiratory, enzymatic, biochemical, and fermentative activities of microorganisms. Prerequisite: BIOL—220. May be taken as ENVA—360. Lab fee.

**BIOL—325. Behavioral Ecology (2 hours lecture, 4 hours laboratory) 3 credits**

The course will explore the relationship between animal behavior, ecology and evolution. We will examine how animals behave under specific ecological conditions and ask why such behaviors evolved. Topics of particular interest include problems of finding living space, food, and mates; social interactions among individuals and groups; and the ways that behavior affects population size and location. One weekend field trip is planned. Prerequisites: BIOL—110 or 130, BIOL—120 or 140.

**BIOL—330. Arthropod Biology (2 hours lecture, 4 hours laboratory) 3 credits**

A study of aquatic and terrestrial arthropods integrating ecology and physiology with systematics. Laboratory work includes field studies of local habitats, and the investigation of unique arthropod physiological and behavioral adaptations. In addition, the pathological role of arthropods as parasites and disease vectors is considered. Prerequisites: BIOL—110, 120. Lab fee.

**BIOL—335. Developmental Biology (3 hours lecture, 3 hours laboratory) 4 credits**

This course is designed to give a firm background in classical animal embryology, as well as to introduce current questions of developmental biology at cellular, tissue, and organismal levels. Topics include gametogenesis, fertilization, early development and organogenesis. Prerequisites: BIOL—110 or 130, BIOL—120 or 140. Lab fee.

**BIOL—340. Histology (3 hours lecture, 3 hours laboratory) 4 credits**

Morphology of cells, tissues, and organs with emphasis on the relationship of structure to function at each level of organization. Laboratory includes the study of electron micrographs of cells, histological slides of tissues and organs, and the preparation of slides. Prerequisites: BIOL—110, 120. Lab fee.

**\*\*\*BIOL—350. Ichthyology (2 hours lecture, 4 hours laboratory) 3 credits**

A study of the Biology of fishes that includes the evolutionary relationships and diversification of the major groups of fishes, the environment, their habitats, life styles, anatomy, physiology, and behavior. Fish as a resource and their relationships with man will also be considered. Laboratories will explore a variety of topics including identification, anatomy, physiology, behavior, and ecology. Fieldwork will be emphasized and time will be spent working in local streams, ponds, and lakes. Field trips to Long Island Sound and the Boston Aquarium are scheduled. Prerequisite: BIOL—230 or permission of the instructor. Lab fee.

**BIOL—400. Advanced Topics in Biology 3 credits**

This course will explore a biological topic, often interdisciplinary in nature, not covered in regular course offerings. Examples of potential topics are: sensory biology, the cancer cell, physiological ecology, environmental biology, biometry. Topics will be announced during pre-registration in the preceding semester. This course may be taken more than once with different content. Prerequisites: BIOL—110, 120 and possible additional prerequisites that vary, depending on the topic given—see schedule of classes.

**BIOL—420. Biochemistry (3 hours lecture, 4 hours laboratory) 4 credits**

An introduction to protein structure and function, enzyme kinetics, and the regulation of metabolism. Laboratory component provides exper-

\*\*\* Offered when there is sufficient student interest

rience with concepts and techniques introduced in lecture and features an independent project in protein purification using state-of-the-art column chromatography and gel electrophoresis equipment. Prerequisites: BIOL—220, CHEM—210.

**BIOL—425. Molecular Biology (3 hours lecture, 4 hours laboratory) 4 credits**

The course will cover the principles of gene structure, function, organization and expression in prokaryotes and eukaryotes. Some specialized aspects of eukaryotic genes such as gene mobility, gene rearrangement, cancer genes and animal virus genetics will be studied. Gene manipulation through recombinant DNA technology, and applications of this technology in basic research and industry will be discussed in lecture and illustrated through laboratory exercises involving the isolation, cloning and expression of genes in bacteria and mammalian cells. Prerequisite: BIOL—260. Lab fee.

**BIOL—430. Animal Physiology (3 hours lecture, 4 hours laboratory) 4 credits**

The functions of organ systems of invertebrates and vertebrates will be covered with emphasis on the interdependent relationships of organ systems and their regulatory mechanisms. Topics covered in lecture and laboratory are the nervous, muscular, circulatory, respiratory and excretory systems, as well as principles of environmental physiology including discussion of ionic, osmotic, and thermal regulation. Prerequisite: BIOL—220. Lab fee.

**BIOL—435. Comparative Endocrinology (3 hours lecture, 4 hours laboratory) 4 credits**

The function of endocrine secretions in vertebrates. Topics will include (1) evolution of hormone structure and function, (2) secretion and transport of hormones, and (3) hormonal regulation of carbohydrate, fat, and protein metabolism, water and mineral balance, growth, and reproduction. Prerequisite: BIOL—220. Lab fee.

**BIOL—440. Neurobiology (3 hours lecture, 4 hours laboratory) 4 credits**

The lectures will cover the structure and function of individual neurons and neuronal circuits in both invertebrate and vertebrate species. Topics will include electrical signalling and action potentials, ion channels, synaptic transmission, neuronal plasticity, and general principles governing sensory and motor processing. The laboratory will provide students with hands on experience using fundamental electrophysiological techniques. Students will also investigate neuronal function using computer simulations of ion channels, neurons and circuits. Prerequisite: BIOL—220. Lab fee.

**BIOL—445. Plant Physiology (3 hours lecture, 4 hours laboratory) 4 credits**

Lecture and laboratory will address the structural, biochemical, and molecular strategies of plant growth and development. The course will cover the fundamentals of modern plant physiology including plant water relations, photosynthesis and metabolism, responses to the environment, and development. Prerequisite: BIOL—220. Lab fee.(ATTR: ARTS, PHYL)

**BIOL—460. Immunology (3 hours lecture) 3 credits**

The cellular basis of the humoral and cell mediated immune response will be covered with emphasis on the mechanisms of cell cooperation. Topics covered are: lymphocyte populations, the role of the macrophage, immunoglobulin synthesis and the generation of diversity, the genetics of the immune response and the role of the major histocompatibility complex, the complement system and the development of hypersensitivities. Prerequisite: BIOL—220, 260.

**BIOL—465. Conservation Biology (3 hours lecture) 3 credits**

Conservation Biology will cover the ecological principles, theory, and practice of conservation. Topics will include the study of case histories, conservation strategies for specific environments and species, sustained yield exploitation, conservation genetics, management of exotic species, conservation of endangered species, and the design of natural preserves. Prerequisite: BIOL—225. May be taken as ENVA—450.

**BIOL—490. Biology Seminar 1 credit**

Offered each semester with a topic selected to serve as a central theme for that semester. One meeting each week for presentations by students, faculty, and guests. May be taken more than once with different content. Consult fall and spring schedules for specific topics.

**BIOL—499. Independent Research in Biology 1 - 3 credits**

Laboratory or field research of an original nature under the direction of a faculty member. Arranged by mutual consent of student and faculty member. Credit for independent research may be earned in more than one semester. Normally taken for 2 credits, but may be taken for 1 or 3 credits with approval of department head. Attendance at all departmental colloquia required.



## Chemistry Department

*Head:* Dr. Karen S. Quaal, *Assoc. Prof.*

*Prof.:* Dr. Jennifer Gillies

*Assoc. Prof.:* Dr. Paul J. Smith

*Asst. Prof.:* Dr. Kevin Rhoads

*Visiting Asst. Prof.:* Dr. Catherine Franklin

*Lecturer:* Dr. Alicia B. Todaro

The Chemistry Department provides students with the opportunity to develop a strong foundation in chemical principles and their laboratory applications. This foundation enables Chemistry graduates to pursue a wide range of careers in chemical industry, research, chemical education, chemical engineering, or in interdisciplinary fields such as medicine, dentistry, other health professions, environmental science, biochemistry, forensic science, or patent law.

Five courses of study are offered:

1. B.S. in Chemistry. This program provides chemistry students with a foundation in a variety of chemical subdisciplines. This option is recommended for students who require more scheduling flexibility than the ACS accredited track allows. This may include students pursuing certification in secondary education or who wish to study abroad, as well as students planning on graduate study in chemistry or employment in the chemical industry.
2. B.S. in Chemistry accredited by the American Chemical Society (ACS). This program leads to certification by the ACS upon graduation and

requires both a research experience and a written thesis. This program is recommended for students planning on graduate study in chemistry or employment in the chemical industry.

3. B.S. in Chemistry in the Integrated Science track. This program is recommended for students with career goals for which interdisciplinary study will be beneficial, such as health professions, forensics science, chemical physics and environmental science.
4. B.S. in Biochemistry. The Biochemistry Major is an interdisciplinary major incorporating selected courses in chemistry and biology, as well as courses in physics and mathematics, to give students a well-rounded grounding in Biochemistry. The Biochemistry Major is excellent preparation for careers in the health profession or for graduate studies not only in biochemistry but also in related fields such as molecular biology, biotechnology, pharmacology, and medicinal chemistry.
5. The 3/2 Cooperative Engineering (five-year) program. In this program, students earn an ACS-accredited B.S. degree in Chemistry from Siena and a B.Ch.E. from an affiliated institution. It is tailored for students desiring a career in Chemical Engineering. The affiliated institutions are: Catholic University, Rensselaer Polytechnic Institute, Clarkson University, Manhattan College and Western New England College. Each student will meet with the Engineering Coordinator at least once each semester.

The Chemistry Department has laboratories for instruction in the basic Chemistry courses, as well as research laboratories, stockrooms, seminar rooms, departmental reading rooms, and computer facilities. Advanced laboratories are designed to allow flexibility in selecting experiments and conducting special projects. Advanced students have opportunities for course credit through external internships and independent research projects under faculty supervision.

Instrumentation is very important in modern chemical practice. Available instruments within the Chemistry Department include: Ultraviolet/visible spectrometers, ultraviolet/visible spectrophotometer, Fourier transform infrared spectrometers, 400 MHz nuclear magnetic resonance spectrometer, atomic absorption spectrometer, luminescence spectrometer, gas chromatographs, high performance liquid chromatographs, magnetic susceptibility balance, polarimeters, electrochemical analyzer, and a mass spectrometer. Many of these instruments are interfaced with computers.

*Advanced Placement (AP) Chemistry:* Students scoring a 4 on the AP exam are granted four credits and advanced placement for CHEM—110. A score of 5 on the AP exam allows students to receive eight credits and advanced placement for CHEM—110 and CHEM—120.

*Requirements for Chemistry Major* (for choice of one of the following tracks):

*Requirements for B.S. in Chemistry:* 38 credits in chemistry courses, 8 credits in mathematics courses, and 8 credits in physics courses. Chemistry course requirement include: General Chemistry I and II, Inorganic Chemistry I and II, Organic Chemistry I and II, Analytical Chemistry I and II, Physical Chemistry I and II, Chemical Communication, Integrated Laboratory I, II and III, and Physical Biochemistry. Mathematics requirements include Calculus I and II (Calculus III and Differential Equations are recommended electives for students planning on graduate studies in chemistry). Physics requirements include Physics I and II (PHYS—130 and PHYS—140). A third physics course, PHYS—210 or higher is a strongly recommended elective.

*Requirements for B.S. in Chemistry accredited by the American Chemical Society (ACS):* 39 credits in chemistry courses, 11 credits in mathematics courses, and 8 credits in physics courses. Chemistry course requirement include: General Chemistry I and II, Inorganic Chemistry I and II, Organic Chemistry I and II, Analytical Chemistry I and II, Physical Chemistry I and II, Chemical Communication, Integrated Laboratory I, II, III, and IV, and Physical Biochemistry. Mathematics requirements include Calculus I, II and III (Differential Equations is a recommended elective for students planning on graduate studies in chemistry). Physics requirements include Physics I and II (PHYS—130 and PHYS—140). A third physics course, PHYS—210 or higher is a strongly recommended elective. A computer language is recommended for students contemplating graduate studies. Certification by the ACS requires the approval of a candidate by the Chemistry Department.

*Requirements for B.S. in Chemistry in the Integrated Science track:* 36 credits in chemistry courses, 8 credits in mathematics courses, and 8 credits in physics courses. Chemistry course requirements include: General Chemistry I and II, Inorganic Chemistry I and II, Organic Chemistry I and II, Analytical Chemistry I, Physical Chemistry I and II, Chemical Communication, Integrated Laboratory I and II, and Physical Biochemistry. Mathematics requirements include Calculus I and II. Physics requirements include Physics I and II. Other requirements include 8 credits in the same discipline, including the equivalent of 2 credits of laboratory, in School of Science courses. Biology courses must be numbered BIOL—220 or higher. Physics courses must be numbered PHYS—210 or higher.

*Requirements for the Biochemistry major:* a minimum of 53 total credits in chemistry and biology, 8 credits in mathematics, and 8 credits in physics. Chemistry requirements are: General Chemistry I and II, Organic Chemistry I and II, Inorganic Chemistry I, Analytical Chemistry I, Physical Chemistry I, Integrated Laboratory I, Chemical Kinetics, and Biochemical Mechanisms. Biology requirements are: General Biology I Lecture or

Advanced General Biology Lecture, General Biology II Lecture or Advanced General Biology Seminar, Cell Biology, Scientific Writing (or substitute CHEM—331 Chemical Communication), Molecular Genetics, Biochemistry, and Molecular Biology. Mathematics requirements are: Calculus I and II. Physics requirements are: General Physics I or IA and General Physics II or IIA.

*Requirements for the 3/2 Cooperative Engineering Program (five year program):* Students in this program spend the first three years at Siena and the last two at one of the cooperating institutions listed above. The three-year curriculum at Siena is the same as the first three years of the ACS-accredited major, with the additional requirement of Differential Equations and Introduction to Computer Science. The core requirement of 6 credits of social science may be deferred. Advisors work closely with these students to plan the course of study so that they can complete the requirements for the B.S. from Siena by the end of the fourth year of study, although the fourth year is actually spent at the cooperating institution. The fourth and fifth years of study (at the cooperating institution) include courses in chemical engineering and technical electives. At the end of the fourth year, Siena confers the ACS-accredited B.S. in Chemistry. At the end of the fifth year, the cooperating institution confers the B.Ch.E. Students in this program should consult with the 3/2 Engineering Coordinator at least once each semester.

*Requirements for certification in secondary education in chemistry:* Satisfactory completion of any track for a degree in chemistry and all required Education Department courses. Admission to the professional semester requires approval of the Chemistry Department and the Education Professional Committee, which normally expects a 2.50 GPA in chemistry, a 2.75 overall GPA, and a demonstration of strong communication skills.

*Requirements for Chemistry Minor:* 19 credits in chemistry courses which include: General Chemistry I and II, Organic Chemistry I, Analytical Chemistry I, Physical Chemistry I and Integrated Laboratory I.



## Description of Courses

**CHEM—010. Topics in Chemistry 3 credits**

A survey course of lectures, demonstrations, and laboratories in the principles of chemistry including a discussion of topics of contemporary interest. This course is usually offered with emphasis on a specific topic. When such an offering occurs, the content will be designated by a subtitle. The course is designed to fulfill part of the School of Science Core requirement for School of Liberal Arts and School of Business students, as well as Business and Social Science track Computer Science students. It may be taken more than once with different content. (ATTR: ARTS, CAN) An example of a special topic follows:

**Chemistry in the News**

This course will provide a basic background in chemical principles and processes in the context of their role in environmental, health and consumer issues. Topics covered may include ozone depletion, acid rain, global warming, nuclear power and alternative energy sources, recycling, pharmacology, food additives and polymers. The goal of this course is to enable students as informed consumers to critically evaluate scientific issues which have a crucial impact on their lives.

**CHEM—040. Non-core Topics in Chemistry 3 credits**

A topics course similar to CHEM—010, except the topics offered have not been approved to fulfill the School of Science Core requirement for School of Liberal Arts and School of Business students. Students may take this course more than once with different content. Not open to Chemistry majors. Does not count towards College Core.

**CHEM—110. General Chemistry I (Lecture and Laboratory)  
4 credits**

Lecture and laboratory covering the fundamental laws and principles of chemical structure and reactivity. Interactive laboratories focus on rediscovery of these principles and mastery of basic laboratory techniques including an introduction to chemical instrumentation and computerized data analysis. Three hours of lecture, one hour of problem-solving, and three hours of laboratory each week. Lab fee. (ATTR: ARTS, CAN)

**CHEM—120. General Chemistry II (Lecture and Laboratory)  
4 credits**

Lecture and laboratory covering topics in thermodynamics, equilibrium, acids and bases, chemical kinetics, and electrochemistry. Laboratory focuses on quantitative analysis of chemical substances by traditional and modern techniques with strong emphasis on instrumental methods (spectrophotometry, pH measurement, high performance liquid chromatography) as well as data acquisition and analysis by computers. Three hours of lecture and four hours of laboratory each week. Prerequisite: CHEM—110. Lab fee. (ATTR: ARTS, CAN)

**CHEM—210. Organic Chemistry I (Lecture and Laboratory)**

**4 credits**

An introduction to the chemistry of carbon compounds, including the study of bonding, structure, nomenclature, physical and spectroscopic properties, methods of preparation, and reactivity of alkanes, alkenes, alkynes, alkyl halides, and alcohols. Separation and purification techniques are stressed in the laboratory and reaction products are analyzed by spectroscopic and chromatographic methods, including GC, HPLC, FTIR, and FT-NMR. Three hours of lecture and four hours of laboratory each week. Prerequisite: CHEM—120 or consent of Instructor. Lab fee.

**CHEM—220. Organic Chemistry II (Lecture and Laboratory)**

**4 credits**

A continuation of CHEM—210 with emphasis on the functional group chemistry of aromatics, alcohols, ethers, carbonyl compounds, carboxylic acids and their derivatives, and bio-organic molecules. Resonance theory, conjugation, aromaticity, multistep organic syntheses, and reaction mechanisms are explored in detail. Functional group chemistry and multistep syntheses are stressed in the laboratory, along with spectroscopic and chromatographic analysis of products. Three hours of lecture and four hours of laboratory each week. Prerequisite: CHEM—210. Lab fee.

**CHEM—225. Analytical Chemistry I (Lecture and Laboratory)**

**3 credits**

Lecture and laboratory address the application and theory of various analytical methods including gravimetric, electrochemical, and spectrophotometric analysis, chromatography and statistical treatment of data and error analysis. Prerequisites: CHEM—120. Lab fee.

**CHEM—230. Environmental Chemistry (Lecture and Laboratory) 4 credits**

An introduction to the chemical processes that occur in water, air, and soil, and the effects of pollutants on these processes. Consumption of and reliance on limited natural resources will be studied, along with emerging alternative energy sources. The laboratory will emphasize environmental sample collection and preparation, and analysis of these samples by both wet chemical methods and instrumental analysis. Three hours of lecture and four hours of laboratory each week. Prerequisite: CHEM—210. May be taken as ENVA—290. Lab fee.

**CHEM—240. Inorganic Chemistry I (Lecture) 2 credits**

An introduction to quantum mechanics/atomic structure, periodicity, valence bond theory, solid state structure/thermodynamics, and the descriptive chemistry of the Main Group. Two hours of lecture each week. Prerequisite: CHEM—110.

**CHEM—310. Physical Chemistry I (Lecture) 3 credits**

An introduction to thermodynamics and its application to chemical systems, especially to chemical equilibrium and electrochemistry. Prerequisites: MATH—120 or 130; PHYS—120 or 140; CHEM—120; or consent of the instructor.

**CHEM—311. Chemical Communications (Lecture) 1 credit**

This course addresses the conventions and style of all forms of communications in chemistry: scientific writing, oral presentations, presentation of data in tables and figures. This course meets one hour each week. Prerequisite: CHEM—220.

**CHEM—316. Integrated Laboratory I (Laboratory) 1 credit**

This laboratory course introduces students to experimental methods applied to thermodynamic and material science investigations. Techniques such as vacuum line manipulations, uv/vis spectrometry, calorimetry, NMR spectroscopy, and refractometry, are used to study phase diagrams, ideal and non-ideal behavior, equilibria, electrochemistry, and thermodynamic state functions. Polymers are synthesized and analyzed by viscometry and chromatographic techniques. The use of computers for data acquisition is emphasized. Prerequisites: CHEM—210, CHEM—225 and CHEM—310 or current enrollment in CHEM—310 or consent of instructor. Lab fee.

**CHEM—320. Physical Chemistry II (Lecture) 3 credits**

Experimental and theoretical chemical kinetics, quantum mechanics as applied to chemical systems, molecular spectroscopy, and other current topics. Prerequisites: MATH—120 or 130; PHYS—120 or 140; CHEM—120.

**CHEM—321. Chemical Kinetics (Lecture) 1 credit**

This covers basic concepts in chemical kinetics. A central theme is the understanding of rates of chemical reactions, and what they tell us about chemical reactions. This includes: determination of rate laws, the use of rate laws to derive reaction mechanism, and the extrapolation of kinetic data to explore molecular dynamics. The course runs concurrently with Physical Chemistry II (CHEM—320) and meets for the first five weeks of the semester only. Prerequisites: MATH—120 or 130, PHYS—120 or 140, CHEM—120.

**CHEM—326. Integrated Laboratory II (Laboratory) 1 credit**

This laboratory course introduces modern synthetic methods of inorganic chemistry, and the study of the kinetics, quantum mechanics and spectroscopy relevant to the synthesized compounds. The laboratory emphasizes the use of instrumentation such as Fluorescence/Phosphorescence, NMR, uv/vis., and IR spectroscopies, electrochemical analysis, magnetic susceptibility determination, as well as digital data collection and analysis via PCs. An independent research project is part of this course. Prerequisites: CHEM—320 or current enrollment in CHEM—320, CHEM—340 or current enrollment in CHEM—340, or consent of instructor. Lab fee.

**CHEM—340. Inorganic Chemistry II (Lecture) 3 credits**

An extensive treatise on molecular orbital theory/bonding, symmetry/group theory, spectroscopy, kinetics/reaction mechanisms, and photochemistry of transition metal coordination compounds. Special topics such as the chemistry of metalloenzymes, organometallic compounds, the chemistry of materials, or industrial catalysis may also be covered as time permits. Prerequisites: CHEM—240 and CHEM—310 or CHEM—320 or consent of the instructor.

**CHEM—415. Analytical Chemistry II (Lecture) 1 credit**

This course covers the theoretical and practical application of several advanced instrumental techniques. These techniques include one and two dimensional FT-NMR, FT-IR spectroscopy, chromatography, and electrochemistry. One hour of lecture each week. Prerequisites: CHEM—210, CHEM—220, CHEM—225, and current enrollment in CHEM—416.

**CHEM—416. Integrated Laboratory III (Laboratory) 1 credit**

Instrumental methods of structure determination and quantitative analysis with an emphasis on advanced instrumental methods used in organic chemistry are covered in this course. Advanced synthetic techniques and advanced analytical techniques will include two-dimensional nuclear magnetic resonance experiments, NOE experiments, chromatography, spectroscopy, and potentiometric techniques. Prerequisites: CHEM—220, CHEM—225, CHEM—310, CHEM—316, and current enrollment in CHEM—415. Lab fee. (ATTR: ARTS)

**CHEM—425. Biochemical Mechanisms (Lecture) 3 credits**

This course explores special topics in biochemistry including a close examination of biochemical reaction mechanisms and enzyme kinetics, and readings from the current biochemical literature. Prerequisites: CHEM—220; CHEM—310; completion or concurrent registration in CHEM—320 or CHEM—321; and BIOL—420; or consent of the instructor. (ATTR: ARTS)

**CHEM—426. Integrated Laboratory IV (Laboratory) 1 credit**

In this laboratory course students develop and investigate a project. The investigation will be an extension of skills and techniques acquired in previous integrated laboratories. The course culminates in a written senior thesis and oral presentation. Prerequisites: CHEM—415 and CHEM—416. Lab fee. (ATTR: ARTS)

**CHEM—428. Physical Biochemistry (Lecture) 3 credits**

This course covers the concepts of biochemistry. It focuses on the fundamental principles of physical and organic chemistry as they apply to the behavior of biological molecules. Three hours of lecture each week. Prerequisites: CHEM—220, CHEM—310 and 320 or consent of the instructor.

**\*\*\*CHEM—490. Chemistry Seminar No credit**

Student papers on topics approved by the Chemistry faculty are presented and discussed.

**\*\*\*CHEM—499. Independent Research 1 - 3 credits**

Original laboratory and literature research under the direction of a faculty member. The course is arranged by mutual consent of student and faculty member.

\*\*\* Offered when there is sufficient student interest



## Computer Science Department

*Head:* Dr. Scott Vandenberg, *Assoc. Prof*

*Prof.:* Mr. James R. Matthews, Dr. Timothy C. Lederman, Dr. James R. Nolan, Dr. Leonard Putnick

*Asst. Prof.:* Dr. Eric Breimer, Dr. Mary Anne Egan, Dr. Robin Flatland, Ms. S. Johanna Horowitz, Dr. Scott Hunter, Dr. Robert Yoder

The Computer Science program at Siena features excellent facilities, full-time dedicated faculty and a wide variety of educational and career opportunities. The program is oriented towards “hands on” computing in a small class environment. Laboratory experiences are an essential component of many courses, so that students can work closely with our faculty. Beginning with the first course, students develop their abilities to solve problems, analyze, synthesize, think critically and communicate. Many courses require group projects and intensive teamwork.

The Computer Science major at Siena requires a minimum of 30 hours of coursework in Computer Science, 14 hours of coursework in Mathematics and 6 hours of coursework in Physics. Most students participate in a senior year capstone experience by enrolling in Software Engineering I and II, and by involvement in a well-established internship program. There are also opportunities for research with a professor in a one-on-one situation.

A minor in another field is not required, but one may be chosen from any that the college supports. Frequently chosen minors for Computer Science majors at Siena are Business, Mathematics or Physics. A Computer Science major opting for a minor in Business would take the following courses: ACCT—200, ACCT—205, ECON—101 or ECON—102, FINC—301, MKMG—211, and MKMG—212. A Computer Science major opting for a minor in Mathematics would take the following courses: MATH—110, MATH—120, MATH—250, MATH—350 and 2 upper level math courses. A Computer Science major opting for a minor in Physics would take the following courses: PHYS—130, PHYS—140, PHYS—210 or PHYS—212, PHYS—220 or PHYS—222, PHYS—230 and PHYS—240.

For students interested in engineering, the Computer Science Department participates in a 3-2 program with Rensselaer Polytechnic Institute, Clarkson University, Catholic University, SUNY-Binghamton and Manhattan College. Such students will receive a Bachelor of Science in Computer Science from Siena and a Bachelor of Science in Engineering from the cooperating institution.

Certificate Programs in Computer Science and in Information Systems are available for students not wishing to complete all B.S. requirements or who already have a bachelor's degree in another field. The department also offers minors in Computer Science and in Information Systems.

The Computer Science program is based on the suggested curriculum of the SIGCSE (Special Interest Group Computer Science Education) of the ACM (Association for Computing Machinery).

*Facilities:* The Computer Science Department has its own networked computing facility for laboratory work using DEC Alpha's (UNIX), and PC's (Windows NT), Linux, and a variety of other hardware and software. Students access Siena's campus-wide academic computing network. (See the "Information and Technology Services" section of the catalog for a complete description of the Academic Computing facilities).

Students have access to several programming languages including C, C++, Scheme, Java, Visual Basic, Visual Prolog, Visual C++, and Perl. Application packages for word processing, spreadsheet modeling, and database management are also available for student use. Additional software available for use in courses and on student projects includes Minitab, and the Statistical Package for the Social Sciences (SPSSX), Oracle, and various Computer Aided Software Engineering (CASE) tools.

*Requirements for the Major:* A student is required to take at least 30 credits in Computer Science, including Introduction to Computer Science (CSIS—110), Procedural Design and Programming (CSIS—120), Data Structures (CSIS—210), Computer Architecture and Assembly Language (CSIS—220),

Object-Oriented Design and Programming (CSIS—225), Analysis of Algorithms (CSIS—385) and four upper-level Computer Science electives numbered 300 or higher. The student must take 14 hours in Mathematics: Calculus I and II (MATH—110 and MATH—120), and Discrete Mathematics I and II (MATH—250, MATH—350). Also, the student must take 6 hours of Physics: Introductory Electronics (PHYS—070) or Electronic Instrumentation (PHYS—230) and Digital Electronics (PHYS—240).

*Requirements for the Minor in Computer Science:* The minor in Computer Science will consist of six courses (at least 18 credit hours) in Computer Science. At least three of the courses must be at the CSIS—120 level or above.

*Requirements for the Minor in Information Systems:* Introduction to Computer Applications (CSIS—010), Introduction to Computer Science (CSIS—110), Database Design and Applications for Business (CSIS—112) or Database Management (CSIS—350), Management Information Systems (CSIS—114), Survey of Information Technology (CSIS—116), and any one of the following: Accounting Systems and Data Processing (ACCT—470), Topics in Computer Science (CSIS—200), Topics in Computer Science with Laboratory (CSIS—201), Procedural Design and Programming (CSIS—120), or Data Structures (CSIS—210).

*Requirements for a Certificate in Computer Science:* A student must take 18 hours in Computer Science, including Introduction to Computer Science (CSIS—110), Procedural Design and Programming (CSIS—120), Data Structures (CSIS—210), Computer Architecture and Assembly Language (CSIS—220), Object-Oriented Design and Programming (CSIS—225) and Advanced Algorithms (CSIS—385). The student must also take 11 hours of Mathematics, including Calculus I and II (MATH—110 and MATH—120) and Discrete Structures (MATH—250). (Discrete Structures is not required for Mathematics majors who wish to earn this certificate.) At least four of the courses and at least three of the Computer Science courses must be completed at Siena College. The Computer Science courses may not be taken with the pass/fail option.

*Requirements for a Certificate in Information Systems:* Introduction to Computer Science (CSIS—110), Database Design and Applications for Business (CSIS—112), Management Information Systems (CSIS—114), Survey of Information Technology (CSIS—116), Procedural Design and Programming (CSIS—120), Data Structures (CSIS—210), and any two of the following courses: Topics in Computer Science (CSIS—200, with appropriate topic), Topics in Computer Science with Laboratory (CSIS—201, with appropriate topic), Computer Architecture and Assembly Language (CSIS—220), Object-Oriented Design and Programming (CSIS—225), Data Base Management (CSIS—350), Advanced Topics in Computer Science (CSIS—400, with appropriate topic), Advanced Topics in Computer Science with Laboratory (CSIS—401, with appropriate topic), Software Engineering I (CSIS—410), Software Engineering II (CSIS—415), and

Mathematical Statistics I (MATH—270) or Business Statistics I (QBUS—200) (but not both). At least four of the courses must be completed at Siena College. The Computer Science courses may not be taken with the pass/fail option.

*Cooperative Engineering Program:* Students pursuing the 3-2 Program in Computer Science and Engineering must satisfy all the requirements for the major and the core requirements. The student's advisor and the coordinator of the 3-2 Program will help the student in planning a program so that the requirements for the B.S. in Computer Science from Siena will be completed at the end of the fourth year and the B.S.E. from the engineering school at the end of the fifth year. Each student should consult with the 3-2 Engineering Coordinator at least once a semester.

**CSIS—010. Introduction to Computer Applications (2 hours lecture, 2 hours laboratory) 3 credits**

An introduction to computers and applications using both character and graphical user interfaces. Topics will include hardware components; application software including word processing, spreadsheets, graphics, and database management; data communications; issues in information systems such as privacy and security; computer operations; and networking. This course should be a first course in computing for non-science majors. Computer Science majors cannot apply this course to the major. Laboratory fee. No prerequisites.

**CSIS—030. Introduction to Computing with SPSS 3 credits**

An introduction to the Statistical Package for the Social Sciences, a step by step instruction of the procedures used and an understanding of the printed output. Data preparation for the input of variables, format statements, system and program output, correlation coefficients, data plots, chi-square and distribution tests, analysis of variance and covariance are some of the subjects studied. Prerequisite: An introductory statistics course (ATDV—110 or equivalent). Computer Science majors cannot apply this course to the major but may only take it as computer science elective credit. Computer use fee.

**\*\*\*CSIS—040. Computers in Society 3 credits**

An introduction to the history and evolution of information processing and an appreciation of an orientation to the digital computer. Included is the study of some of the positive and negative effects of computer usage on social organizations and individuals and the examination of the uses and implications of computers in a number of social environments, i.e., government and law, health, education, the humanities, science and engineering, and business. Prerequisites: SOCI—101 and any computer science course or permission of the Instructor. Computer Science majors may not apply this course to the major, but may take it as computer science elective credit or as a Sociology course.

\*\*\* Offered when there is sufficient student interest

**CSIS—110. Introduction to Computer Science (2 hours lecture, 2 hours laboratory) 3 credits**

An introduction to Computer Science with an emphasis on problem solving, algorithm development, and design and testing of solutions using a functional programming language. In particular, the course will emphasize techniques for modular design and testing of programs, including techniques for reducing a large problem to smaller one. Other topics include general computer organization, information representation, efficiency of solutions, and a brief introduction to declarative programming techniques. No prerequisites. Lab fee. (ATTR: ARTS, CAQ)

**CSIS—112. Database Design and Applications for Business 3 credits**

This course introduces the concepts and practices of database design and use from a business perspective. Topics to be covered include data models (object, entity-relationship, and relational, for example), database design techniques, data dictionaries, query language (e.g. SQL, QBE), requirements analysis, legacy systems, databases for decision support, presentation techniques (forms, web pages, etc.) and basic information on database use in a business setting. The course includes hands-on use of a common business database management system to illustrate and emphasize the concepts. Prerequisite: CSIS—010 or CSIS—110. Computer use fee.

**CSIS—114. Management Information Systems 3 credits**

An introduction to fundamental management issues and information system principles involved in the analysis, design, and implementation of management information systems. Topics include business information system planning, technology architecture, database design, systems development, decision support systems, internal control, and computer security and disaster planning. In order to provide an opportunity for students to develop a facility for applying the knowledge gained in the course, case studies will be used extensively. Prerequisite: CSIS—010 or CSIS—110.

**CSIS—116. Survey of Information Technology (2 hours lecture and 2 hours laboratory) 3 credits**

This course completes the Management Information Systems sequence. Students will continue their study of programming and databases, while gaining hands-on experience in the application of these skills in a management setting. Topics may include electronic commerce, decision support systems, executive information systems, and other current aspects of information technology. Prerequisites: either (1) CSIS—112 and CSIS—114 or (2) CSIS—350. Lab fee.

**CSIS—120. Procedural Design and Programming (2 hours lecture, 2 hours laboratory) 3 credits**

An introduction to the procedural design paradigm with an emphasis on problem solving, algorithm development, and implementation of algorithms in computer programs in a procedural language, such as C or C++.

Other topics will include hardware organization, data representation, system software, programming style, program testing and analysis of algorithms. Prerequisite: CSIS—110. Lab fee. (ATTR:ARTS, CAQ)

**CSIS—200. Topics in Computer Science 3 credits**

This course will use an area of research, theory or practice to apply and extend basic principles of Computer Science. The course may be taken more than once with different topics. Possible topics include web design, emerging programming languages, computer graphics, computer security, and e-commerce. Prerequisite: permission of the instructor.

**CSIS—201. Topics in Computer Science with Laboratory  
(2 hours lecture and 2 hours laboratory) 3 credits**

This course will use an area of research, theory or practice to apply and extend basic principles of Computer Science. The course may be taken more than once with different topics. Possible topics include web design, emerging programming languages, computer graphics, computer security, and e-commerce. The laboratory includes such things as hands-on exploration and experimentation with concepts, software tools, computer systems, or computer languages designed to confirm or extend the principles developed in lecture. Prerequisite: permission of the instructor. Laboratory fee.

**CSIS—210. Data Structures (2 hours lecture, 2 hours laboratory)  
3 credits**

This course continues the study of procedural algorithm design and implementation with an emphasis on the use and implementation of data structures such as records, stacks, queues, linked lists, trees and graphs. Students will continue development of programming skills using modular and structured programming techniques in a procedural programming language. Prerequisite: CSIS—120. Lab fee.

**CSIS—220. Computer Architecture and Assembly Language  
(2 hours lecture and 2 hours laboratory) 3 credits**

An introduction to assembly language programming using a specific assembly language (for example, VAX or MIPS assembly language). Addressing techniques, internal computer components, machine language, subroutines, and parameter passing will be discussed. Prerequisite: CSIS—120. Lab fee.

**CSIS—225. Object-Oriented Design and Programming  
3 credits**

This course continues previous work in using an object-oriented language in problem solving, and will consist of two parallel strands: the development of students' expertise in advanced features of the language, and the introduction of object-oriented design methodologies. The two strands will be developed in the context of a large-scale semester project implemented by teams of from three to six students. Prerequisite: CSIS—210. Computer use fee.

**CSIS—310. Numerical Methods 3 credits**

Course objectives are to survey and develop numerical methods for solving scientific problems. Topics covered are roots of linear and nonlinear systems, numerical integration, approximation, interpolation, and ordinary differential equations. The course will emphasize efficient computer implementation of numerical algorithms. Prerequisites: CSIS—120, or permission of the instructor. Corequisite: MATH—230. Computer use fee.

**CSIS—325. Computer Organization 3 credits**

This course provides a foundation in computer hardware organization including: a brief survey of historical developments in computer hardware, a contrast of computer architectures and their implementation, and numbering systems. Also covered are fundamentals of logic design with application to the design of basic computer elements such as counters, adders, decoders, design of instruction timing sequences, register structure, addressing techniques and microcomputers. Prerequisites: CSIS—220, PHYS—070 and PHYS—240.

**CSIS—330. Operating Systems (3 hours lecture, 3 hours laboratory) 4 credits**

A study of processor, memory, device, and information management of contemporary computer systems. Emphasis is placed on the models and algorithms for multi-programming computer operating systems. Discussion will include classic problems such as the concurrency problems of mutual exclusion, deadlock and synchronization, and memory management concepts such as paging, working set and segmentation. The laboratory includes an introduction to using the UNIX operating system, an introduction to programming in the C language and experiments designed to confirm or extend the principles developed in lecture. Prerequisite: CSIS—210. Laboratory fee.

**\*CSIS—340. Programming Languages 3 credits**

A study of the organization and structure of modern programming language paradigms with an emphasis on semantic issues. Topics include formal language theory, syntax, semantics, calling protocols, and conventional and abstract data types. This course will include comparison studies of languages such as LISP, C, Ada, Prolog, C++, Pascal, FORTRAN, and APL. Prerequisite: CSIS—225. Computer use fee.

**CSIS—350. Data Base Management 3 credits**

A study of Data Base Management Systems, including the relational, hierarchical, and network models. Topics will include the storage structures, data representations, access methods, and query languages. Problems such as security, privacy, and maintaining the integrity of the data stored will be discussed. Prerequisite: CSIS—210 or CSIS—315.

**\*CSIS—355. Advanced Database 3 credits**

This course has two major themes:(1) An introduction to the princi-

\* Offered alternate years, offered 2001-2002

ples of database management system implementation (as opposed to use), with an emphasis on current relational implementation technology; and (2) a study of the emerging Object-Oriented database technology from the standpoint of a database user/administrator. Topics in both themes will include query processing, concurrency control, language design, data modelling, and distributed systems. Prerequisite: CSIS—350 or instructor permission. Computer use fee.

**\*CSIS—365. Communications & Networks 3 credits**

A survey of data communication and networks. Topics to be covered include techniques of transmission, protocols for line control, error detection and correction, communication software, various types of network systems, distributed applications, and performance evaluation. Prerequisite: CSIS—220.

**\*\*CSIS—375. Introduction to Artificial Intelligence 3 credits**

Fundamental concepts used in machine implementation of processes which imitate human cognition. Topics include knowledge representation, logical deduction and problem solving, natural language understanding and semantic representation. Current literature and research will be discussed. Students will complete several programming projects in the areas of game trees, backtracking, theorem proving, and rule-based systems. Pre- or corequisite: CSIS—210. Computer use fee.

**CSIS—385. Analysis of Algorithms 3 credits**

This course continues previous work in the design and analysis of algorithms. Students are expected to be familiar with stacks, queues and lists. Data structures considered are binary trees, AVL trees, B-trees, hash tables, sets, multi-dimensional trees and graphs. Algorithms for searching, inserting in and deleting from these structures will be discussed. A variety of sorting algorithms including radix sort, heapsort, mergesort and quicksort will be studied. Algorithms for k-selection, minimum cost spanning trees, connectivity and shortest paths will be analyzed. NP-complete problems will be introduced. Prerequisites: CSIS—210, MATH—250.

**CSIS—400. Advanced Topics in Computer Science 3 credits**

This course will use an areas of research, theory or practice to apply and extend basic principles of Computer Science. The course may be taken more than once with different topics. Possible topics include:

- Advanced AI
- Systems Programming
- Computer Security
- Data Warehousing
- Cryptography

Prerequisite: permission of the instructor.

\* Offered alternate years, offered 2002-2003

\*\* Offered alternate years, offered 2003-2004

**CSIS—401. Advanced Topics in Computer Science with Laboratory (2 hours lecture and 2 hours laboratory) 3 credits**

This course will use an area of research, theory or practice to apply and extend basic principles of Computer Science. The course may be taken more than once with different topics. Possible topics include Advanced AI, Systems Programming, Computer Security, Data Warehousing, or Cryptography. The laboratory includes such things as hands-on exploration and experimentation with concepts, software tools, computer systems, or computer languages designed to confirm or extend the principles developed in lecture. Prerequisite: Permission of the instructor. NOTE: The lab fee will be calculated using the standard lab fee formula with two hours. Because there is a lab fee, the computer use fee will be eliminated.

**CSIS—410. Software Engineering I 3 credits**

Introduces the concepts of structured system analysis. Presents principles of software engineering including techniques for planning, specification, and system design. Specifications for an actual system will be developed. Prerequisite: CSIS—225. Recommended for all senior-level Computer Science majors.

**CSIS—415. Software Engineering II 3 credits**

Implementation of a software engineering methodology. Complete design, testing, and verification of a system developed using a programming team concept. Structured design and documentation. Prerequisite: CSIS—410. Computer use fee. (ATTR: ARTS)

**CSIS—499. Independent Study 1 - 3 credits**

A qualified student, with the consent of the Head of the Computer Science Department, may pursue further research and study in some specific aspect of computer science. The student will be directed by a member of the Computer Science Department with whom he/she will hold periodic discussion. The student will be expected to comply with all School of Science guidelines concerning such projects. The number of credits to be awarded (1 - 3) will be determined by the Head of the Computer Science Department and the directing faculty member. Computer use fee.



## Environmental Studies Program

Dr. Lawrence L. Woolbright, *Director*

Environmental Studies exemplifies one of the deepest traditions in Liberal Arts, the tradition of interdisciplinary inquiry. Studies of the environment are integrative, requiring a close articulation between the natural sciences, the social sciences, and the humanities. As a reflection of this integrative approach, courses within the Environmental Studies Program are taught by faculty from a wide variety of departments within Siena College, including Biology, Chemistry, Economics, English, Finance, Marketing and Management, Mathematics, Political Science, Quantitative Business Analysis, Religious Studies, and Sociology.

A student who chooses to major in environmental studies will develop (1) a firm basis in ecology and chemistry, sufficient to explain the methodology and interpret the results of environmental monitoring techniques, habitat assessment and ecosystem management; (2) an understanding that environmental issues occur in context of economic, political, and social constraints of the national and global communities; and (3) an appreciation that environmental issues cannot be addressed in isolation from questions about our moral, aesthetic, and cultural attitudes towards land and other species.

A major in Environmental Studies may be preparation for employment in fields related to policy, legislation and regulation, management, public relations, or mediation. Students with a commitment to environmental interests might choose to continue their studies on a graduate level, having distinguished themselves as unique candidates for degrees in business, law, sociology, economics, journalism and the media.

It should be noted that the Bachelor of Arts in Environmental Studies may not be suitable for graduate science studies or for immediate post-graduate employment in the technical fields related to the environment. For those goals, it is recommended that the Environmental Studies Certificate be combined with a Bachelor of Science degree in fields such as chemistry or biology. Environmental Studies majors should work closely with the Director of the Program to choose an appropriate curriculum.

*Requirements of the Major:* The B.A. curriculum in Environmental Studies consists of four main parts: a 10-credit, common sequence of courses that examines the interdisciplinary nature of environmental issues, in order to provide a framework for specific disciplinary courses; 26 credits in natural science courses that are laboratory and field oriented, including basic requirements in biology, chemistry and statistics; 21 credits in policy, humanities, and elective courses, with emphases in political science and economics as well as written and oral communication, balanced by a menu of courses from a variety of departments; and 3 credits in an environmental internship.

## Curriculum of the B.A. in Environmental Studies

### Common Courses (10 credits)

ENVA—100 (Environmental Science), ENVA—110 (Environmental Policy), and ENVA—120 (Environmental Ethics)

### Science (26 credits)

#### 1. Biology Sequence:

BIOL—110, 111 (General Biology I & Lab), BIOL—120, 121 (General Biology II & Lab), and BIOL—225 (Ecology, same as ENVA—250).

#### 2. Chemistry Sequence:

CHEM—110 (General Chemistry I), CHEM—120 (General Chemistry II), and CHEM—230 (Environmental Chemistry, same as ENVA—290).

#### 3. Statistics

Choose one from the following: ATDV—110 (Statistics for Social Sciences), QBUS—200 (Business Statistics I), MATH—270 (Mathematical Statistics).

### Policy/Humanities (12 credits)

#### 1. Economics

ECON—101 (Principles of Economics, Micro) and ECON—340 (Environmental Economics, same as ENVA—300).

#### 2. Political Science

Choose either POSC—265 (Public Policy) or POSC—360 (American Environmental Politics, same as ENVA—310).

#### 3. Communication

Choose either WRIT—200 (Advanced Writing) or WRIT—220 (Oral Communication).

### Electives (9 credits)

Choose three courses from the following list. They must come from at least two departments and may not include more than one course in Biology.

ENGL—220 (Literature & the Environment, same as ENVA—220)

MKMG—211 (Organization & Management)

PHIL—330 (Philosophy of Science)

PHIL—320 (Philosophy of Nature, same as ENVA—320)

POSC—355 (Global Environmental Dilemmas, same as ENVA—315)

RELG—270 (Religion & the Environment, same as ENVA—230)

SOCI—160 (Environment & Society, same as ENVA—140)

SOCI—380 (Population Problems)

BIOL—230 (Biology of Vertebrates)

BIOL—330 (Arthropod Biology)

BIOL—240 (Plant Ecology, same as ENVA—255)

BIOL—465 (Conservation Biology, same as ENVA—450)

ENVA—400 (Topics in Environmental Studies)

ENVA—499 (Independent Study)

### Internship (3 credits)

Several internships are available, at the school and departmental level. The Director of Environmental Studies will provide students with information regarding internship options and availability. ES majors must complete a minimum of 3 credit hours of internship, but it is strongly recommended that they complete an additional 1-3 hours.

### Total Credits for the B.A.: 60

*Requirements of the Certificate:* The Environmental Studies Certificate is designed to allow students of any major to add to their studies an emphasis in environmental issues. It is an appropriate option for students who wish to pursue a career in environmental monitoring, environmental engineering, environmental law, environmental policy, as well as those who simply wish to learn more about our environment. All students in the certificate program are required to complete the introductory course sequence consisting of ENVA—100, ENVA—110, and ENVA—120. These courses should ordinarily be taken as early in a student's career as possible.

In addition to the three courses in the introductory sequence, each certificate student must take at least five more courses as follows: two environmental science courses chosen from ENVA—015, ENVA—020, ENVA—025, ENVA—050, and ENVA—055 (Science majors may substitute appropriate majors' level courses with the approval of the Director.); one environmental policy course chosen from ENVA—300, ENVA—310, and ENVA—315; one environmental humanities course chosen from ENVA—220, ENVA—230, and ENVA—320; and one environmental studies elective chosen from any course greater than ENVA—120.

*Environmental Studies Minor:* The Environmental Studies Program currently does not support a minor. Students interested in a minor should consider the Environmental Studies Certificate.

*Pass-Fail Option for Courses:* Courses taken on a pass-fail basis may not be used for credit toward the Environmental Studies major or the Certificate.



## Description of Courses

**ENVA—010. Environmental Issues 3 credits**

Major environmental issues of today's world will be discussed in sufficient depth to enable each student to evaluate the scientific aspects of current environmental problems. Topics covered may vary between semesters but will include issues such as human demography and food production, resource conservation, water quality and pollution, air pollution, radiation and toxic substances. Supplies fee.

**ENVA—015. Principles of Ecology 3 credits**

A study of the structure and function of nature with special emphasis on the impact of humans on natural systems. Topics included will be energy flow, nutrient cycles, population dynamics, and community ecology. Not open to Biology majors. Supplies fee. (ATTR: ARTS)

**ENVA—020. Biological Diversity 3 credits**

An introduction for the non-science major to the diversity of living organisms, and the processes affecting this diversity. Students will explore these topics primarily through field and laboratory experiences that introduce them to relationships among living things in nearby habitats; lectures and discussions on tropical diversity will supplement the field work. A fall term course; includes one Saturday field trip. Not open to Biology majors. Field trip fee. (ATTR: ARTS, CAN)

**ENVA—025. Concepts of Environmental Chemistry 3 credits**

The course will provide a basic background in chemical principles and processes in the context of their role in environmental issues. Topics to be discussed include ozone depletion, acid rain, global warming, and general uses and misuses of our natural resources. The goal of the course is to enable students as informed consumers to critically evaluate scientific issues which have a crucial impact on our world. Not open to Biology or Chemistry majors. (ATTR: ARTS, CAN)

**ENVA—050. Earth Science 3 credits**

The major themes of Earth Science are (1) the geographical location and global distribution of natural earth phenomena, (2) the origin and interpretation of these phenomena within the framework of a hierarchy of interacting physical systems and mechanisms powered by incoming solar energy, and (3) the impact of past and present human activities on the natural balance of these systems and mechanisms. Topics include climate and weather; atmospheric, surface and subsurface water; soils and soil processes; natural vegetation; landforms; and diastrophic, fluvial and erosional processes. Each student is required to complete an individual project dealing with a specific aspect of earth science. (ATTR: ARTS, CAN)

**ENVA—055. Energy and Environment 3 credits**

The significant impact of society's energy needs on the environment will be examined. Each week one or more group or demonstration experiments will be done. These will emphasize that scientific truth is deduced

from experiments and is ultimately dependent on experiment verification and consistency. Students will use/observe actual scientific methods, techniques, instrumentation, make logical deductions, develop trial hypotheses, and do error analysis. Not open to Physics majors. (ATTR: ARTS, CAN)

**ENVA—100. Environmental Science (3 hours lecture, 3 hours laboratory) 4 credits**

This course is designed to introduce students to the basic scientific methods, tools and techniques needed to understand and analyze environmental issues. Topics covered include ecosystem structure and function, population dynamics and regulation, resources and resource management, and pollution. The laboratory will include projects dealing with current environmental issues, and will emphasize hypothesis testing, data collection and analysis, and oral and written presentations. Several field trips (including one weekend trip) will introduce students to local ecosystems and to local environmental issues. Lab fee. (ATTR: ARTS, CAN)

**ENVA—110. Environmental Policy 3 credits**

This course introduces the student to environmental policy processes and issues from economic, management, political science and sociological perspectives. It presents various methods for evaluating environmental quality and remedies; it looks at the various actors (federal/ state/local governments, communities, grassroots organizations, etc.) involved in environmental decision-making; and it examines the challenges of implementing environmental policy. Prerequisite ENVA—100, or permission of the Director.

**ENVA—120. Environmental Ethics 3 credits**

This humanities-based course may draw upon material from philosophy, the sciences, literature, religious studies, history and the various arts to encourage broad reflection about our obligations to the environment. One aim is to introduce students to the basic ethical views (utilitarian, rights theory, socialist accounts) that inform environmental decision making. Another aim is to examine more recent work specific to the environment, such as essays on “deep ecology,” “the land ethic,” “environmental racism,” and “ecofeminism.” Prerequisite ENVA—100, or permission of the Director.

**ENVA—140. Environment and Society 3 credits**

An introduction to the social aspects of environmental problems and solutions. It examines the ways in which social institutions and lifestyles lead to environmental deterioration. It also looks at the consequences of environmental decay for human health and well-being. It examines efforts to preserve the natural environment through the Environmental Movement, drives to save particular ecosystems, and changes in thinking about environmental issues. Same as SOCI—160.

**ENVA—220. Literature and the Environment 3 credits**

This course introduces students to the tradition of nature writing in literature, with an emphasis on American authors. Thoreau’s *Walden* is a

central text. Particular attention is given to contemporary multicultural voices among environmental writers. The course emphasizes nonfiction prose but includes some poetry and fiction. (Same as ENGL—220.)

**ENVA—230. Religion and the Environment 3 credits**

An examination of the stances and attitudes toward nature and the environment taken by several religious communities. The course will assist students to develop a constructive assessment of the theological and ethical contributions religious communities can make to environmental studies. (Same as RELG—270.) (ATTR: ARTS)

**ENVA—250. Ecology (2 hours lecture, 4 hours laboratory) 3 credits**

A study of the interrelations of organisms with each other and the environment. The lectures are equally divided between ecosystem ecology (energy and material flux, modeling), population ecology (population dynamics, competition, predation) and community ecology (structure, diversity, and succession). The lab will emphasize methodology with weekly field trips to various local habitats. One weekend field trip to the Adirondack mountains is required. Prerequisites: BIOL—110, 120 or permission of the instructor. May be taken as BIOL—225. Lab fee.

**ENVA—255. Plant Ecology (2 hours lecture, 4 hours laboratory) 3 credits**

Lectures cover in detail the natural history and ecology of plants with an emphasis on the communities of northeastern North America. Laboratories include field studies of local plants and two overnight weekend field trips to unique plant communities in the region. Prerequisites: BIOL—110, 120. May be taken as BIOL—240. Lab fee.

**\*ENVA—290. Environmental Chemistry (3 hours lecture, 4 hours laboratory) 4 credits**

An introduction to the chemical processes that occur in water, air, and soil, and the effects of pollutants on these processes. Consumption of and reliance on limited natural resources will be studied, along with emerging alternative energy sources. The laboratory will emphasize environmental sample collection and preparation, and analysis of these samples by both wet chemical methods and instrumental analysis. Three hours of lecture and four hours of laboratory each week. Prerequisite: CHEM—120. May be taken as CHEM—230. Lab fee.

**ENVA—300. Environmental Economics 3 credits**

An examination of how the natural environment is affected by the economic activities of society, and the physical and biological limitations imposed on the economy by the natural environment. Particular areas examined include the use of non-renewable natural resources, market failures, economic methods for analyzing pollution, cost/benefit analysis, the impact of population growth, and the values implicit in free market

\* Offered alternate years, offered 2001-2002

economies toward the natural environment. (Same as ECON—340.)  
Prerequisite: ECON—101.

**\*\*ENVA—310. Environmental Politics 3 credits**

A study of environmental public policy: the major actors, institutions, and rules of the game that shape decision making. We will also engage in a dialogue about the underlying philosophies that drive resource utilization and environmental preservation. We will primarily look at the case of the United States, but some attention will be given to the international dimensions of the subject. Prerequisites: POSC—100 or ENVA—110 or Junior standing. (Same as POSC—360.)

**\*ENVA—315. Global Environmental Dilemmas 3 credits**

This course studies how national, subnational and transnational actors create and actuate norms, principles, treaties and institutions for dealing with global environmental issues. Prerequisites: POSC—150 or ENVA—110 or junior standing. (Same as POSC—355.)

**\*\*ENVA—320. Philosophy of Nature 3 credits**

Examination of the idea of nature in historical and contemporary perspective, including theories of humanity's place in and transformation of the natural world. Some points of emphasis are the legacy of ancient cosmology, the development of the scientific view of nature, modern technology, and current ecological theory. Prerequisite: PHIL—101. (Same as PHIL—320). (ATTR: ARTS)

**ENVA—400. Topics in Environmental Studies 3 credits**

This course will explore special topics in Environmental Studies that are not part of the regular course offerings. Topics will be announced during pre-registration in the preceding semester. This course may be taken more than once with a different content. Prerequisites: ENVA—100, 110, 120 or written permission of the instructor.

**ENVA—410. Practicum in Environmental Studies 1 credit**

This class is a hands-on group project, directed by a faculty member, in some applied aspect of environmental studies. Examples of projects that could be included under this rubric are environmental restoration or wetlands creation projects, natural resource inventories, and other interpretive or conservation projects requiring group effort. Class will meet for one hour each week, and students are expected to spend a minimum of an additional three hours per week working on the project. May be taken more than once under different subtitles. Prerequisites: ENVA—100, ENVA—110, ENVA—120, and permission of the instructor.

**\*ENVA—450. Conservation Biology 3 credits**

Conservation Biology will cover the ecological principles, theory, and practice of conservation. Topics will include the study of case histories, conservation strategies for specific environments and species, sustained

\* Offered alternate years, offered 2002-2003

\*\* Offered alternate years, offered 2003-2004

yield exploitation, conservation genetics, management of exotic species, conservation of endangered species, and the design of natural preserves. Prerequisite: BIOL—225. May be taken as BIOL—465.

**ENVA—499. Independent Study 1 - 3 credits**

Seniors in the Environmental Studies major may pursue an independent research project in Environmental Studies, under the supervision of a faculty member. Interested students should prepare a written research proposal and solicit the consent of an instructor to serve as mentor. Written permission of the supervising instructor and the Director of Environmental Studies is required.



## Mathematics Department

*Head:* Dr. Edwin Rogers, *Assoc. Prof.*

*Prof.:* Dr. Steven Bloom, Dr. Susan Hurley, Mr. James R. Matthews, Dr. Leonard Putnick

*Assoc. Prof.:* Dr. Emelie Kenney, Dr. Thomas Rousseau

*Asst. Prof.:* Dr. Julie Byrne

The Mathematics Department, following recommendations by the Committee on the Undergraduate Program in Mathematics of the Mathematical Association of America, offers its majors a basic sequence in calculus followed by two semester sequences in both algebra and analysis. Students are introduced to the language of mathematics, learn to formulate and solve mathematical problems, and develop a facility with advanced mathematical technique and abstraction.

For students interested in engineering, the Mathematics Department participates in a cooperative engineering program. For details, see the Special Programs section of the catalog, and the Cooperative Engineering Program requirements section below.

Students can earn college credit for either Calculus I (MATH—110) or Calculus II (MATH—120) by scoring a four or a five on the Advanced Placement (AP) examinations. Alternatively, students may earn credit for Calculus I by passing an examination given by the department each fall.

*Requirements for the Major:* The Bachelor of Arts degree in Mathematics and all other degrees in mathematics require the successful completion of 36 credits in mathematics at the Calculus level or above. The courses, Calculus I, II, III, Linear Algebra, Foundations of Mathematics I, II, and III, Mathematical Analysis I, and Introduction to Modern Algebra are required. Of the 36 credits required for the degree, at least half (18 credits) must come from the list of advanced courses. In addition students must successfully complete General Physics I, II (PHYS—130, 140) and Introduction to Computer Science (CSIS—110) or a more advanced computer science course.

The Bachelor of Science degree in mathematics has the same requirements as the Bachelor of Arts degree in mathematics, and the student must earn 12 additional credits in courses in biology, chemistry, physics and/or computer science which count towards the degree in those majors. Of the 12 credits, a student must include six credits from one of the following sequences:

- 1) Mechanics I and II
- 2) Electromagnetic Theory I and II
- 3) Physical Chemistry I and II
- 4) Numerical Methods and Advanced Algorithms

The Bachelor of Science in Applied Mathematics has the same requirements as the Bachelor of Science degree in Mathematics and the student must take Differential Equations, Introduction to Applied Mathematics I, Mathematical Statistics I, and Numerical Methods. The student must also take one course from Complex Variables, Mathematical

Statistics II or Introduction to Applied Mathematics II.

*Requirements for the Minor:* Calculus I and II, and four additional (three or more credit) courses taken from MATH—210 through MATH—470, with at least two courses taken from MATH—300 through MATH—470. MATH—391 and 392 combined may substitute for one course.

*Education Certification:* Siena mathematics majors seeking provisional teaching certification (grades 7-12) must be approved by both the Mathematics Department and the Education Department. They must satisfy the requirements of one of the degrees listed above. To be approved for the program the student must demonstrate strong communication skills, have a minimum Grade Point Average of 2.75 in mathematics courses and overall, and successfully complete the course Euclidean and Non-Euclidean Geometry. Students returning to or continuing their education at Siena College for purposes of certification must meet the requirements above. The professional teaching semester in mathematics is normally offered during the Fall Semester of each year.

*Cooperative Engineering Program:* A student wishing to participate in the 3/2 program should complete all the requirements of the Bachelor of Science in Applied Mathematics. A maximum of two of the advanced level mathematics courses and the advanced science sequence may be transferred from the engineering school. To satisfy the requirements of the engineering school, it is strongly recommended that the student take a minimum of twenty-five credits in physics and/or chemistry during their three years at Siena. These science courses are to be chosen in consultation with the advisor and the 3/2 Engineering Coordinator. The student should consult with the 3/2 Engineering Coordinator each semester.

## Description of Courses

### **MATH—010. Finite Mathematics 3 credits**

Much of the mathematics which impinges on everyday life is of the finite variety. This course will introduce students to topics from Number Theory, Combinatorics, Complexity Theory, Difference Equations, Game Theory, Geometry, Graph Theory, Information Theory, Group Theory, Logic, Probability and Simple Descriptive Statistics, and Set Theory. Preference will be given to topics which convey to the student the prevalence of finite mathematics in modern society, with applications which are accessible to student experimentation. Though primarily intended for Liberal Arts and Business majors, this course is also recommended for mathematics majors who intend to teach secondary school mathematics. (ATTR: ARTS, CAQ)

### **MATH—030. History of Mathematics 3 credits**

This is a one semester course on selected topics in the history of mathematical ideas. Topics covered may include the notions of limit, infinity, area, parallelism, pi, transcendental numbers, number systems, mensuration, polynomials, cosmology, map coloring, logic, proof, abstraction, generaliza-

tion, quadrature, trisection, or algebraic structure. The history of a given idea will be traced, and relevant problems will be presented. This course is intended for students in all schools of the College. Mathematics majors may take the class for elective credit but it does not count towards the requirements for the major. Offered spring semester. (ATTR: ARTS, CAQ)

**MATH—050. Preparation for Calculus 3 credits**

A study of the background material needed for calculus with emphasis on functions. The course includes a study of relations, functions and graphs, polynomials, solving equations and inequalities, rational and radical functions, logarithmic and exponential functions, trigonometric functions both right angle and analytic, vectors, polar and parametric equations, and an introduction to the conic sections. Students must purchase an approved graphing calculator prior to beginning this course.

**MATH—110. Calculus I (Lecture and Laboratory) 4 credits**

Courses MATH—110, 120 and 210 provide a foundation for all upper level mathematics courses. Main topics considered during the first semester: functions, limits, continuity, differentiation, the chain rule, antiderivatives, the definite integral, Fundamental Theorem of Calculus and trigonometric functions. Applications of all topics are emphasized. Three hours of lecture and one hour and twenty minutes of laboratory per week. Lab fee. Students must purchase an approved graphing calculator prior to beginning this course. (ATTR: ARTS, CAQ)

**MATH—120. Calculus II (Lecture and Laboratory) 4 credits**

This course completes the calculus of elementary transcendental functions. It also includes techniques of integration, indeterminate forms, L'Hospital's Rule, improper integrals, and introduction to sequences, infinite series and power series. Students apply concepts to work, volume, arc length, and other physical phenomena. Three hours of lecture, and one hour and twenty minutes of laboratory each week. Lab fee. Prerequisite: MATH—110. Students must purchase an approved graphing calculator prior to beginning this course. (Effective Spring Semester 1994.) (ATTR: ARTS, CAQ)

**MATH—191. Foundations of Mathematics I 1 credit**

An introduction to the art and craft of mathematical problem solving. Students interact in a seminar setting, discussing and solving interesting mathematical problems. Oral presentations of problems and solutions are a required part of this course. There are no prerequisites.

**MATH—210. Calculus III (Lecture and Laboratory) 4 credits**

This course completes the Calculus sequence. The topics covered are vectors in the plane and in three dimensional space, functions of several variables, partial differentiation, the chain rules, multiple integration including cylindrical and spherical coordinate systems and the theorems of Green and Stokes. Students apply these concepts to physical applications. Prerequisite: MATH—120.

**MATH—230. Linear Algebra 3 credits**

This course studies the elements of linear algebra with an emphasis on applications. Topics covered include matrices, systems of equations, finite dimensional vector spaces, linear transformations, eigenvalues and eigenvectors. Prerequisite: MATH—120.

**MATH—250. Discrete Structures 3 credits**

A study of mathematical structures most frequently encountered in Computer Science. Topics covered include sets, functions, mathematical induction, complexity of algorithms, counting methods, recurrence relations, graphs, trees, boolean algebra, and relations. Prerequisites: MATH—120, CSIS—120. Offered in Fall Semester.

**MATH—270. Mathematical Statistics I 3 credits**

A development of the theory of hypothesis testing. Probability theory, including discrete and continuous random variables is studied. Some simple nonparametric tests are developed, and hypothesis tests based on the normal, the Student's *t*, and the chi-square distributions are studied. Prerequisite: MATH—120. Offered in Spring Semester.

**Advanced Courses**

**MATH—310. Introduction to Modern Algebra 3 credits**

This course is an introduction to the elementary theory of groups and rings, developed axiomatically. Other topics covered are subgroups and cosets, normal subgroups, factor groups, homomorphism and isomorphism of groups and rings, fundamental theorems for groups and rings. Prerequisites: MATH—210, MATH—230. Offered Fall Semester.



**MATH—320. Mathematical Analysis I 3 credits**

Introduction to the fundamental concepts of mathematical analysis. A two-term course that studies the real number systems, limits, sequences, series, convergence, uniform convergence, functions of one variable, continuity, differentiability, Riemann integration, functions of several variables, line, surface, and volume integrals. Prerequisite: MATH—210. Offered Spring Semester.

**MATH—330. Introduction to Applied Mathematics I 3 credits**

The first part of the semester is linear analysis with emphasis on the eigenvalue problem. The series solutions of the differential equations of Bessel and Legendre are studied in detail. Nonlinear problems are studied using phase plane analysis, numerical methods, and perturbation techniques. Prerequisite: MATH—380.

**MATH—340. Introduction to Number Theory 3 credits**

A discussion of the basic properties of the set of integers. Prime numbers and the Euclidean Algorithm. Number-theoretic functions, especially the Euler phi-function. Linear congruences and their applications to the solution of Diophantine Equations. Exponents and primitive roots. Quadratic residues and the Law of Quadratic Reciprocity. Prerequisite: MATH—210. Offered Spring Semester.

**MATH—350. Discrete Structures II 3 credits**

Continuation of the study of mathematical structures most frequently encountered in Computer Science. Topics covered include graphs, trees, discrete probability, and languages, grammars and machines. Prerequisites: MATH—250, CSIS—110. Offered in Spring Semester.

**MATH—360. Euclidean and Non-Euclidean Geometry 3 credits**

An introduction to the techniques of Euclidean and Non-Euclidean geometry. Topics include: plane Euclidean geometry, geometric transformation groups, spherical geometry, the projective and hyperbolic planes. Prerequisites: MATH—210, MATH—230. Offered Fall Semester.

**MATH—380. Differential Equations 3 credits**

An elementary study of ordinary differential equations including theory, technique, and application of concepts. Solutions of first order equations are treated in detail. Linear differential equations of higher orders are studied with the non-homogenous differential equations being solved by the methods of Undetermined Coefficients and Variation of Parameters. Solutions by means of power series and uses of the Laplace Transform are also covered. Prerequisite: MATH—210. Offered Spring Semester.

**MATH—391. Foundations of Mathematics II 1 credit**

A continuation of MATH—191. In addition to oral presentations, students will present the results of their work in written form. Elementary logic and techniques of mathematical proof will be introduced and employed by the students in their written presentations. Prerequisites: MATH—120. (ATTR: ARTS)

**MATH—392. Foundations of Mathematics III 1 credit**

A continuation of MATH—391. Advanced techniques of mathematical proof are introduced with a continued emphasis on composing logically correct mathematical arguments. Students will work with material familiar to them from the previous two courses. Students continue oral and written presentations of their work. Prerequisites: MATH—391. (ATTR: ARTS)

**\*\*\*MATH—420. Mathematical Analysis II 3 credits**

A continuation of Mathematical Analysis I. Prerequisite: MATH—320.

**MATH—430. Introduction to Applied Mathematics II 3 credits**

Fourier series and expansions in terms of other orthogonal functions. Application of these expansions to the solution of the classical partial differential equations of mathematical physics. Also included is a brief introduction to complex variables. Prerequisite: MATH—330. Offered Spring Semester.

**MATH—440. Complex Variables 3 credits**

An introduction to the study of functions of a complex variable. Topics will include complex numbers, sequences, analytic functions, Cauchy-Riemann equations, complex integration, Laurent and Taylor Series, residue theorem, and conformal mapping. Prerequisite: MATH—210. Offered Fall Semester.

**MATH—460. Topology 3 credits**

This is a one semester introductory course in Topology. The topics covered include: Open and closed sets, topologies on general point sets, connectedness, compactness, continuity, product and quotient topologies, and metric spaces. Applications to other areas in mathematics (principally geometry and analysis) will be explored. Prerequisite MATH—230. Offered Spring Semester.

**MATH—470. Mathematical Statistics II 3 credits**

Statistical tests for multivariable problems are developed and applied to real data sets. The computer and the SPSS package will be used. Prerequisites: MATH—230, MATH—270. Offered Fall Semester.

**MATH—490. Mathematics Seminar 1 credit**

Consideration of a mathematical topic selected on the basis of faculty and student interest. Designed for students with good mathematical backgrounds. May be taken twice with different topic. Permission of instructor or department required for registration. Offered Spring Semester.

**MATH—499. Independent Study in Mathematics 1 - 3 credits**

Study or research on an advanced mathematics topic under the tutelage of a qualified faculty member. May be taken more than one semester. Prerequisites: All mathematics courses specified for a major in mathematics. Permission of faculty mentor and department head required for registration.

\*\*\* Offered when there is sufficient student interest

## Physics Department

*Head:* Dr. Denis P. Donnelly, *Prof.*

*Prof.:* Dr. Leonard J. Merrill, Dr. Thomas P. Coohill

*Assoc. Prof.:* Dr. Joshua B. Diamond

*Asst. Prof.:* Dr. Russell J. Dubisch, Dr. Allan Weatherwax (*Visiting*)

The Department of Physics aims to develop in its students a comprehensive grasp of the principles of physics. The program emphasizes the concepts and techniques that have led to our present state of understanding of the physical universe.

The department offers a flexible and comprehensive program. Placed in the context of a liberal arts environment, the generality and applicability of Physics grant the major three broad options upon graduation. He or she is well prepared to pursue graduate study in Physics or an allied field, to embark immediately upon a professional career in science, or to enter one of the numerous careers which require or are enhanced by a broad knowledge of science in today's technological society.

Contributing to the flexibility of Siena's Physics program is the unstructured Advanced Laboratory sequence in which students pursue projects of their choosing with the guidance of faculty advisors. The equipment of the optics, electronics and modern physics laboratories plus all the research equipment of the department is available for these projects, and includes an X-ray diffractometer, 1.5m grating spectrometer, vibration-isolated optical table, lasers, spectrum analyzer, logic analyzer, signal digitizer, nuclear counters and microcomputers with graphics and interfacing capability.



Satisfactory performance in all laboratory work is necessary to obtain a passing grade in any Physics course accompanied by a laboratory experience.

A curriculum is offered for those interested in teaching, and the Department also offers a 3/2 program in affiliation with Catholic University, Clarkson University, Manhattan College, Rensselaer Polytechnic Institute, SUNY Binghamton and Western New England College leading to the B.S. in Physics and a B.E. in electrical, mechanical, civil, biomedical, aeronautical, nuclear, or materials engineering. Programs leading to a Master's degree are also available through Rensselaer.

*Requirements for the Major:* 13 courses in Physics are required including: General Physics I, II, III; Modern Physics; Electronic Instrumentation; Introduction to Computational Physics I; Digital Electronics; four of the advanced Physics courses (courses numbered 300 and above); and two credits of Advanced Laboratory. Advanced placement credit may be given for General Physics I & II. In addition, the major must complete Introduction to Computer Science or a more advanced computer science course; Calculus I, II, III; Differential Equations; Introduction to Applied Mathematics I and II (Students with special interest in Biophysics and Chemical Physics may substitute appropriate courses for Introduction to Applied Mathematics); General Chemistry I and General Chemistry II.

Transfer students from two-year colleges may receive credit for General Physics I, II, III, Modern Physics, Calculus I, II, III, Differential Equations, General Chemistry I and General Chemistry II.

Pre-engineering students are advised to take General Physics I and II in the freshman year.

*Requirements for the Minor:* Minor will consist of six courses in Physics, which must include general physics (PHYS—130 and PHYS—140), and any four more advanced courses resulting in a minimum of twelve additional credit hours. Advanced laboratory (PHYS—470 and PHYS—472) may only be elected with permission and must be elected for a total of two credit hours. Advanced laboratory will count as one of the six required courses.

*Education Certification:* For teacher certification in the secondary schools, students must complete 30 hours in Physics and cognate courses as outlined below. In addition, the student must achieve a minimum quality point average of 2.5 in Physics courses and must satisfy all Education Department requirements. Students successfully completing this program receive a B.S. in Physics and New York State Initial Certificate in Adolescence Education in the subject area of Physics.

*Physics courses:* General Physics I, II, III, Modern Physics, Principles of Electronic Instrumentation, and Introduction to Computational Physics, plus twelve additional credit hours from the following list: any of the courses from PHYS—310 to PHYS—460, or digital electronics.

*Cognate requirements:* Introduction to Computer Science (or higher), Calculus I, II, III, Differential Equations, General Chemistry I, II.

*Cooperative Engineering Program:* Students pursuing the 3/2 program in Physics and Engineering will spend the first three years at Siena and the last two at the cooperating engineering school. The three-year curriculum at Siena is similar to the first three years of the typical major's sequence. Advisors will indicate course choices in order for the student to complete the requirements for the B.S. in Physics from Siena at the end of the fourth year and the B.E. from the engineering school at the end of the fifth year. Each student should meet with the 3/2 Engineering Coordinator, Dr. Leonard Merrill, at least once each semester.

*Physics Major: Biological-Chemical Sciences Track:* This option is designed for students majoring in Physics who wish to have a more substantial concentration in Biology and /or Chemistry. It is suitable for students interested in graduate study in areas such as medical or health physics, biomedical engineering, biophysics, and chemical physics, and for those intending to pursue professional studies in medicine, dentistry and other health fields. Students in the Biological-Chemical Sciences track complete the normal requirements for the Physics major, except that either three or four normally required courses listed in Group A below are to be replaced by an equal number of courses (each 3 or 4 credits) in Biology and/or Chemistry, chosen from Group B below.

#### GROUP A

Digital Electronics, Introduction to Applied Math I, Introduction to Applied Math II, one advanced Physics course (numbered PHYS—310 through PHYS—460), Advanced Laboratory (PHYS—470, 472, counted as a single course)

#### GROUP B

Biology courses numbered BIOL—220 or higher, Chemistry courses numbered CHEM—210 or higher

Note: BIOL—110 & 120 are prerequisites for all higher-numbered Biology courses, and CHEM—110 & 120 are prerequisites for all higher-numbered Chemistry courses. Biology and/or Chemistry courses should be carefully selected in consultation with the student's academic advisor. Students interested in the health professions must also consult with the Health Professions Advisor. For certain graduate or professional programs, additional mathematics and/or science electives may be recommended.

## Description of Courses

**PHYS—010. Topics in the Physical Sciences 3 credits**

A course of lectures and demonstrations on the principles and laws governing the physical world. It may be offered with emphasis on a specific topic, and content will be indicated by subtitle. This course is intended to fulfill part of the School of Science Core requirement for School of Liberal Arts and School of Business majors and is not open to Physics majors. It may be taken more than once with different content. (ATTR: ARTS, CAN) Examples of special topics include:

**Astronomy**

A course which serves as an introduction to the basic principles of Astronomy. The course is taught at a non-technical level, and is intended both for science and non-science majors. Topics include the history of Astronomy, the Solar System, stars, galaxies, the structure and evolution of the universe, and the origin and evolution of life. Emphasis is placed on the quantitative and qualitative description of astronomical objects, the methods of scientific deduction, and the social, philosophical and material implications of astronomical knowledge. Opportunities for field and laboratory work will be provided. (ATTR: ARTS, CAN)

**Structures**

A course about the nature of properties of structures, from the pyramids to modern skyscrapers. The course begins with a brief examination of the nature of materials. This is followed by a systematic study of a variety of different structures, including pyramids, houses, bridges, and cathedrals. Students will be expected to participate in in-class projects. (ATTR: ARTS, CAN)

**PHYS—040. Non-core Topics in the Physical Sciences 3 credits**

A topics course similar to PHYS—010, except the topics offered have not been approved to fulfill the School of Science Core requirement for School of Liberal Arts and School of Business students. Students may take this course more than once with different content. Not open to Physics majors. Does not count towards College Core.

**PHYS—070. Introductory Electronics (Lecture and Laboratory) 3 credits**

An introduction to the electrical concepts and measurement of charge, current, voltage, impedance, and power; analysis of linear and nonlinear circuits, study of diodes, transistors, switches, transducers, and IC's including operational amplifiers. Two hours of lecture and four hours of laboratory a week. Offered Fall Semesters. Not open to physics majors. Students who have taken PHYS—120 or PHYS—140 should select PHYS—230 instead of PHYS—070. Prerequisite: MATH—110. Lab fee. (ATTR: ARTS, CAN)

**PHYS—110. General Physics IA (Lecture and Laboratory)**  
**4 credits**

An introductory course in physics for students of the life sciences emphasizing kinematics, Newtonian dynamics and energy. Also includes rotational motion, fluids, heat and thermodynamics. Applications to biological systems are discussed. Three hours of lectures and one three-hour laboratory period a week. Prerequisite or corequisite: MATH—110. Lab fee. (ATTR: ARTS, CAN)

**PHYS—120. General Physics IIA (Lecture and Laboratory)**  
**4 credits**

A continuation of PHYS—110 for life science students, treating electricity and magnetism, electric circuits, waves and optics, and elementary topics in atomic and nuclear physics. Includes applications to biological systems. Three hours of lectures and one three-hour laboratory period a week. Prerequisite: PHYS—110; prerequisite or corequisite: MATH—120. Lab fee. (ATTR: ARTS, CAN)

**PHYS—130. General Physics I (Lecture and Laboratory)**  
**4 credits**

The general physics sequence provides an introduction to those basic concepts of physics that form the foundation of all the natural sciences. The first course is mainly an introduction to classical mechanics where the fundamental laws of Newtonian mechanics are applied to a variety of simple systems. Some elementary thermodynamics is also included. Throughout the course, the conservation laws serve as unifying physical principles. Mathematics, a powerful tool in the understanding of natural phenomena, assumes its essential role. Computers are used in the laboratories. Three hours of lecture and one three-hour laboratory period a week for one semester. Prerequisite or corequisite: MATH—110. Lab fee. (ATTR: ARTS, CAN)

**PHYS—132. General Physics Review 0 credit**

Provides review and amplification of selected general physics topics together with techniques and practice in physics problem solving. To be taken concurrently with General Physics I (PHYS—130). Required for Physics majors (including Physics majors in the 3/2 Program), open to all students enrolled in PHYS—130. One hour per week. (ATTR: ARTS)

**PHYS—140. General Physics II (Lecture and Laboratory)**  
**4 credits**

A continuation of the general physics sequence. Fundamentals of electricity and magnetism, dc and ac circuits, electromagnetic waves, geometric optics of mirrors and lenses, interference and diffraction phenomena in light. Three hours of lecture and one three-hour laboratory period a week for one semester. Prerequisite: PHYS—130. Prerequisite or corequisite: MATH—120. Lab fee. (ATTR: ARTS, CAN)

**PHYS—210. General Physics III (Lecture and Laboratory)  
4 credits**

This course focuses on wave phenomena and statistical physics. Topics are emphasized that provide a foundation for the study of atomic and quantum physics. The laboratory includes experiments dealing with oscillating systems, physical optics, spectroscopy and holography. Three hours of lecture and one three-hour laboratory period a week for one semester. Prerequisite: PHYS—120 or 140. Prerequisite or corequisite: MATH—210. Lab fee. (ATTR: ARTS)

**PHYS—212. General Physics III (Lecture only) 3 credits**

Same as PHYS—210, but without laboratory. Offered to non-Physics majors only. Prerequisite: PHYS—120 or 140. Prerequisite or corequisite: MATH—210. (ATTR: ARTS)

**PHYS—220. Modern Physics (Lecture and Laboratory)  
4 credits**

An introduction to modern physics. Relativistic dynamics, particle aspects of electromagnetic radiation, the wave aspects of material particles, the many-electron atom and nuclear structure are considered. The laboratory includes many of the classical experiments which led to the discovery of quantum mechanics. Three hours of lecture and one three-hour laboratory period a week for one semester. Prerequisites: MATH—210, PHYS—120 or 140. Lab fee. (ATTR: ARTS)

**PHYS—222. Modern Physics (Lecture only) 3 credits**

Same as PHYS—220, but without laboratory. Offered to non-Physics majors only. Prerequisites: MATH—210, PHYS—120 or 140. (ATTR: ARTS)

**\*PHYS—230. Electronic Instrumentation (Lecture and Laboratory) 3 credits**

An introduction to electrical measurements and electronics: currents, voltage, and resistance measurements; transducers, diodes, transistors, and operational amplifiers. Two hours of lecture and four hours of laboratory a week for one semester. Prerequisite: PHYS—120 or 140. Lab fee.

**\*\*PHYS—235. Introduction to Computational Physics I  
1 credit**

An introduction to computational physics. Numerical methods will be used to model and simulate a variety of physical systems. One three-hour laboratory session per week. Prerequisite or corequisite: PHYS—110 or PHYS—130. Lab fee. (ATTR: ARTS)

**PHYS—240. Digital Electronics (Lecture and Laboratory)  
3 credits**

An introduction to digital electronics, semiconductor-device physics, device models, basic logic design, logic gate circuits, flip-flops, latches, coun-

\* Offered alternate years, offered 2002-2003

\*\* Offered alternate years, offered 2003-2004

ters and registers, data domain conversion, and the architecture, I/O, and software of microprocessors. Two hours of lecture and four hours of laboratory a week for one semester. Prerequisite: PHYS—230 or PHYS—070. Lab fee.

**\*\*\*PHYS—245. Introduction to Computational Physics II**  
**1 credit**

A continuation of PHYS—235. Prerequisite PHYS—235. Recommended prerequisite or corequisite: PHYS—120 or PHYS—140. Lab fee.

**\*\*PHYS—310. Mechanics I 4 credits**

Newtonian mechanics of particles and systems of particles, including rigid bodies. Topics include vector analysis, potential theory, central forces, the two-body problem, collisions, oscillatory phenomena, moving reference frames. Lagrangian and Hamiltonian formulation of classical mechanics. Theory of small vibrations. Four hours of lecture a week for one semester. Prerequisites: PHYS—110 or 130. Prerequisite or corequisite: MATH—380. (ATTR: ARTS, PHYS)

**\*\*PHYS—320. Mechanics II 2 credits**

A continuation of PHYS—310. Two hours of lecture a week for one semester. Prerequisite: PHYS—310.

**\*PHYS—330. Thermal Physics 3 credits**

A study of thermal phenomena from a macroscopic point of view, including the development and applications of the first two laws of thermodynamics, entropy, thermodynamic potentials, and equilibrium phenomena. The concept of distribution functions is developed. This is followed by a study of classical statistical mechanics and the statistics of Bose-Einstein and Fermi-Dirac. Three hours of lecture a week for one semester. Prerequisites: MATH—210, PHYS—110 or 130.

**\*\*\*PHYS—400. Special Topics in Physics 1 - 3 credits**

Study of a topic in Physics selected on the basis of faculty and student interest. Prerequisites depend on the topic being offered, and course registration requires permission of the instructor. May be taken more than once with different topics.

**\*\*PHYS—410. Electromagnetic Theory I 4 credits**

A development of Maxwell's electromagnetic field equations and an examination of some of their consequences. Electrostatics, steady currents, and static magnetic fields; dielectric and magnetic materials, time-dependent electric and magnetic fields, and the complete Maxwell theory; energy in the electromagnetic field, Poynting's theorem, electromagnetic waves, and radiation from time-dependent charge and current distributions. Four hours of lecture a week for one semester. Prerequisites: PHYS—120 or 140. Prerequisite or corequisite: MATH—380.

\* Offered alternate years, offered 2002-2003

\*\* Offered alternate years, offered 2003-2004

\*\*\* Offered when there is sufficient student interest

**\*\*\*PHYS—420. Electromagnetic Theory II 2 credits**

A continuation of PHYS—410. Two hours of lecture a week for one semester. Prerequisite: PHYS—410.

**\*PHYS—430. Solid State Physics 3 credits**

An introduction to modern solid-state physics, including lattice structure, lattice vibrations, thermal properties, electron theory of metals and semiconductors, magnetic properties, and superconductivity. Three hours of lecture a week for one semester. Prerequisites: PHYS—220 or CHEM—310 or 320.

**\*PHYS—440. Quantum Physics 3 credits**

Wave-particle duality and Heisenberg uncertainty principle. Basic postulates of quantum mechanics, Schrodinger equation and wave functions, solution of the Schrodinger equation for one-dimensional systems and for the hydrogen atom. Perturbation theory, operator formalism, matrix mechanics. Three hours of lecture a week for one semester. Prerequisites: MATH—380, PHYS—220 or PHYS—222, or permission of instructor. Prerequisite or corequisite: MATH—330.

**\*\*\*PHYS—450. Nuclear Physics 3 credits**

A study of modern nuclear and particle physics with emphasis on the theory and the interpretation of experimental results. Topics will include symmetry principles and conservation laws, properties of nuclei, nuclear forces, shell and collective models, scattering and reactions, weak interactions, pion physics, and the systematics of elementary particles. Three hours of lecture a week for one semester. Prerequisites: PHYS—220, 440 or permission of instructor.

**\*\*\*PHYS—460. Chemical Physics 3 credits**

A course covering the modern developments in the understanding of atomic and molecular systems. Atomic structure and the quantization of energy are first considered. Quantum mechanical principles are applied to chemical bonding and the spectra and structure of simple molecules. Chemical applications of statistical mechanics are considered. Three hours of lecture a week for one semester. Prerequisites: CHEM—310, 315, or 320, 325.

**PHYS—470. Advanced Laboratory I 1 or 2 credits**

Students pursue open-ended experimental or theoretical investigations of their choice with faculty approval and supervision. The research instruments of the School are available including spectrometers, electromagnets, an X-ray diffractometer, and nuclear detectors. Seminars and written reports are required. One three-hour laboratory or research period per credit. Prerequisite: PHYS—240 or permission of instructor. Lab fee. (ATTR: ARTS)

**PHYS—472. Advanced Laboratory II 1 or 2 credits**

A continuation of PHYS—470. Prerequisite or corequisite: PHYS—470. Lab fee. (ATTR: ARTS)

\* Offered alternate years, offered 2002-2003

\*\*\* Offered when there is sufficient student interest



# Military Science and Leadership Department

*Head:* LTC Thomas Donnelly, *Prof*

*Asst. Prof.:* MAJ Mark Johnson, MAJ John Andonie,

MAJ David Erickson, MAJ Eric Bennett,

MAJ Josh Cansler, MSG David Spicer,

SFC Lynn Bradley, SFC William Fox

The purpose of the courses offered by the Military Science and Leadership Department is to motivate and train quality college students to become the future leaders of the United States Army and the civilian community. The course of study is divided into two parts—the first two years (Basic Course) and the last two years (Advanced Course). Selection for the Advanced Course is competitive. Selected students participate on a contractual basis and receive \$250-\$350 subsistence per school month payment from the government. Scholarship recipients receive an additional \$610 book allowance each year. Emphasis of the Advanced Course is on applied, individual leadership development, and exposure of the student to management systems and techniques. A student may satisfy requirements for application to the Advanced Course in one of three ways:

(1) Completion of the first two years (Basic Course) allows a student to earn four academic credits towards graduation while qualifying for the Advanced Course. The student is expected to attend one hour of classroom instruction and several weekend laboratories, periodically, during the Basic Course. Numerous optional confidence-building activities such as white-water rafting, Ranger Challenge, airmobile operations and rappelling are conducted. Students incur no military obligation while enrolled in the Basic Course and may withdraw from the course at their option.

(2) Students may also qualify for entrance into the Advanced Course by attending a five-week summer session (Leadership Training Course) between their Sophomore and Junior year. It is held at Ft. Knox, KY, where students receive a salary, transportation expenses, and living expenses/accommodations. Qualified students may compete for two-year scholarships while attending the summer Basic Camp. Students may elect to enter the Advanced Course upon successful completion of the Basic Camp. Attendance at the summer Basic Camp does not obligate the student to enroll in ROTC.

(3) Students with Junior ROTC, Senior ROTC, service academy experience, or prior military service may also qualify to enter the Advanced Course.

The ROTC program may be pursued in conjunction with any academic major offered at Siena. Completion of the Advanced Course qualifies graduates to receive an officer's commission concurrent with the baccalaureate degree and does not necessarily interfere with subsequent graduate or professional studies.

During the senior year, the student has the option of applying for one of two types of commissions. The first type, a Guaranteed Reserve Forces Duty

(GRFD) commission as a citizen soldier with the Reserve Forces, is for graduates wishing to attend US Army Reserve or US Army National Guard meetings while pursuing a civilian occupation. The second option enables the graduate to go on active duty, perhaps after completing graduate and/or post-graduate scholastic requirements.

Before receiving a Regular Army or Army Reserve commission, each student must pass at least one course from each of the following fields of study: Written communications, oral communications, computer literacy, and military history. In addition, courses in human behavior, mathematical reasoning, management, and national security studies are strongly recommended. All students must coordinate with the Professor of the Department of Military Science to determine which courses satisfy these requirements.

### Description of Courses

*Only the first ten credits earned in ROTC may be applied towards the degree. Quality points are not awarded for MILS—300, 310, 400, 410.*

#### **MILS—100. Fundamentals of Military Science I 1 credit**

The course introduces students to fundamental components of service as an officer in the United States Army. These initial lessons are the building blocks of progressive lessons in values, fitness, leadership, and officership. Additionally, the course addresses “life skills” including fitness, communications theory and practice (written and oral), and interpersonal relationships. Upon completion, students should be prepared to receive more complex leadership instruction.

#### **MILS—110. Fundamentals of Military Science II 1 credit**

The course builds upon the fundamentals introduced in MILS—100 by focusing on leadership theory and decision making. “Life skills” lessons in the semester include: problem solving, critical thinking, leadership theory, followership, group interaction, goal setting, and feedback mechanisms. Upon completion, students should be prepared to advance to more complex leadership instruction concerning the dynamics of organizations.

#### **MILS—200. Applied Leadership I 1 credit**

The course contains the principal leadership instruction of the Basic Course. The instruction delves into several aspects of communication and leadership theory. The use of practical exercise is emphasized, as students are increasingly required to apply communications and leadership concepts. Virtually the entire course teaches critical “life skills.” The relevance of these life skills to future success in the Army is emphasized throughout the course. The course concludes with a major leadership and problem solving case study which draws on all of the classroom instruction received in the Basic Course. Upon completion of this semester, students should be well grounded in the fundamental principals of leadership, and be prepared to intensify the practical application of their studies during the Advanced Course.

**MILS—210. Applied Leadership II 1 credit**

The course focuses principally on officership, providing an extensive examination of the unique purpose, roles, and obligations of commissioned officers. It includes a detailed look at the origin of the Army's institutional values and their practical application in decision making and leadership. At the core is the Basic Course's Capstone Case Study in Officership. This five-lesson exercise traces the Army's successes and failures as it evolved from the Vietnam War to the present, placing previous lessons on leadership and officership in a real-world context that directly affects the future of the students who plan on attending the Advanced Course. This course, more than any before it, draws the various components of values, communications, decision making, and leadership together to focus on a career as a commissioned officer. Upon completion of this course, students should possess a fundamental understanding of both leadership and officership and demonstrate the ability to apply this understanding in real world situations.

**MILS—300. Applied Military Leadership I 2 credits**

The course begins with instruction in the Leadership Development Program (LDP), used throughout the academic year to assess and develop leadership. Instruction in principles of war and purposes, fundamentals, and characteristics of the defense provides the necessary knowledge base for meaningful contextual treatment of Troop Leading Procedures (TLP). Instruction in decision-making, planning, and execution processes of the TLP are followed by a refocus on the critical leadership task of communicating the plan using standard military format. The course addresses motivational theory and techniques, the role and actions of leaders, and risk assessment. The course closes with instruction in small unit battle drills to facilitate practical application and further leader development during labs and Situational Training Exercises (STX).

**MILS—310. Applied Military Leadership II 2 credits**

The course continues to focus on doctrinal leadership and tactical operations at the small unit level. It includes opportunities to plan and conduct individual and collective skill training for military operations to gain leadership and tactical experience. The course synthesizes the various components of training, leadership and team building. Students are required to incorporate previous military science instruction for their practical application in a performance-oriented environment. Upon completion of the course, students will possess the fundamental confidence and competence of leadership in a small unit setting.

**MILS—400. Advanced Military Management and Leadership I 2 credits**

The course concentrates on leadership, management and ethics. The course focuses students, early in the year, on attaining knowledge and proficiency in several critical areas they will need to operate effectively as Army officers. These areas include: Coordinate Activities with Staffs, Counseling Theory and Practice within the "Army Context," Training

Management, and Ethics. While proficiency attained in each of these areas will initially be at the apprentice level, students will continue to sharpen these skills as they perform their roles as cadet officers within the ROTC program and after commissioning. At the end of the course, students should possess the fundamental skills, attributes, and abilities to operate as competent leaders.

**MILS—410. Advanced Military Management and Leadership II  
2 credits**

The course focuses on completing the transition from cadet to lieutenant. As a follow-on to the Ethics instruction in MILS—400, the course starts with a foundation in the legal aspects of decision making and leadership. The curriculum reinforces previous instruction on the organization of the Army and introduces how the Army organizes for operations from the tactical to the strategic level. This is followed by instruction on administrative and logistical management that will focus on the fundamentals of soldier and unit level support. At the core of the semester is the Advanced Course Capstone Exercise. This twelve-lesson exercise incorporates learning objectives from the entire military science curriculum. The Capstone Exercise will require students, both individually and collectively, to apply their knowledge to solve problems and confront situations commonly faced by junior officers. Upon completion of the course, students will be prepared for the responsibility of being a commissioned officer in the United States Army.



# Off Campus Opportunities

## Internships

Internships offer students an opportunity to enrich and enliven their academic programs. Work is supervised and evaluated in conjunction with the on-campus coordinator and a designated individual in the agency, institution, or business organization providing the internship. Internships are generally open to seniors and in some cases juniors (e.g., Political Science and International Certificate students) who meet departmental and school qualifications. The student must meet with the intern coordinator to determine the necessary requirements including, prerequisites, GPA requirements or any other academic standards which may apply.

The School of Liberal Arts, School of Business and School of Science each offer school internships. The school internships are field experiences integrated into the student's academic areas of interest. All school internships require a minimum of 40 hours of field experience for each hour of academic credit. Students participating in this program are required to keep a daily journal that relates the field experience to the student's academic area of interest. School internships also require a final paper that is due on the first day of the final examination period for that semester. The following are the *minimum* campus-wide regulations applied to internship participation:

1. To participate as interns, students must:
  - a. have matriculation status
  - b. be either juniors or seniors, depending upon each department's or school's rules
  - c. be full-time students  
(an exception may be made for part-time students for participation in an organization other than their regular employer)
  - d. have written permission signed by the internship coordinator or department head
  - e. submit this written permission to the Registrar at the time of registration
2. Internship participation is permissible during the fall and spring semesters and during the summer at the discretion of the academic department, school, or program. The departments and programs of the School of Liberal Arts do not offer summer internships. In order to participate in a summer internship, the student must be a senior with a minimum of 84 credits completed toward her/his degree, and must provide a program of study (signed by the student's advisor) outlining the completion of degree requirements within twelve months. Summer internships external to the Capital Region will be permitted in Schools of Business and Science. Summer internships are limited to a total of three credit hours.

3. A student may earn up to a total of six credit hours for all internship activity and may take only one internship in a single semester. An exception is made for all students who take international internships. In these cases, a student may earn up to 8 credits for the international internship and may also earn up to a total of 3 credits for one additional internship.

To assist both the students and the internship coordinators, the Career Center serves as a Siena clearinghouse for information about school internships. A faculty member from each school is also available to discuss internships with students. Letter grades are earned for all departmental internships. However, all school internships are graded on a pass/fail basis. Because this pass/fail option is mandated by the College, the course does not count toward the maximum number of pass/fail courses that a student may take in any semester.

## Study Abroad

Students have a variety of opportunities to spend an academic year or semester studying in a foreign country. Seven programs are directly affiliated with Siena, offering access to universities in seventeen countries worldwide. Programs include traditional classroom settings and internships, and are available in both English speaking and foreign language environments. Students are not limited to the programs affiliated with Siena, but may, in consultation with the Director of International Programs, choose a unique setting tailored to the needs and interests of the student. International study is typically done during the junior year. Transfer students must spend one semester of full-time study at Siena before being eligible to study abroad. A minimum GPA of 2.5 is required.

## Washington Semester

Selected students may participate in a semester study program in Washington, D.C. under the combined auspices of Siena College and American University. Students choose to enroll in one of eight different programs: American Government, General American Government—Public Law, Justice, Foreign Policy, Economic Policy, International Trade and Business Policy, Journalism or Peace and Conflict Resolution. Each program includes two seminar courses and an internship in one of the following areas: Congressional offices and committees, research think tanks, Executive Branch agencies, interest groups, local government offices, or media offices. Students participating in the Economic Policy, International Trade and Business Policy, Justice or Peace and Conflict Resolution program may take an elective course offered by American University in lieu of the research project, while students in Journalism must choose an elective course. The student selecting an elective course will receive a total of 15 credits while those choosing to do the research project will receive a total of 16 credits for the semester. The program is offered each semester and is open to all juniors and seniors. Students are selected on a competitive basis. Students interested in participating in this program should contact Dr. Leon Halpert, Professor of Political Science.

# Pre-Professional Studies

## Pre-Law Studies

Any student who has interest in pursuing legal study should get the most from their undergraduate education at Siena College. While no one curricular path serves as the gateway for preparation for law school, students should choose courses, whether in business, humanities, natural sciences or social sciences that sharpen their analytical reasoning and writing skills.

Intensive preparation for the study of law has provided our students with acceptance and matriculation to several of the most distinguished law schools in the United States including Cornell, Harvard, University of Virginia, and the College of William and Mary. Our alumni, upon graduation from law school, have entered major fields of law practice which include public service, private and corporate law, and the judicial profession.

Unlike a premedical curriculum that contains specific courses, some of which are mandatory, there is no sequence of prelaw courses at Siena College. It is important that students be introduced to broad legal principles and the case law approach to provide them with an informational basis to decide whether they want to continue with a legal education.

There are specific Siena College courses, beyond those in the core curriculum and your major, that are of particular value for law school:

- |     |          |                                 |
|-----|----------|---------------------------------|
| (1) | ATDV—050 | Composition or                  |
|     | WRIT—200 | Advanced Composition            |
| (2) | WRIT—220 | Oral Communications or          |
|     | MKMG—113 | Organizational Communications   |
| (3) | PHIL—150 | Basic Logic or                  |
|     | PHIL—155 | Symbolic Logic                  |
| (4) | MATH—010 | Finite Mathematics              |
| (5) | BLAW—300 | Legal Environmental Business or |
|     | BLAW—310 | Commercial Transactions         |
| (6) | POSC—370 | Civil Liberties I               |
|     | POSC—372 | Civil Liberties II              |
|     | POSC—374 | Introduction to Criminal Law    |

All of the above courses are useful for enhancing communication skills, critical and analytical thinking for the LSAT, and the first-year curriculum at most law schools.

Siena College maintains cooperative 4/3 programs with two law schools (listed in the Affiliation/Articulation Agreements section of the catalog).

Students interested in attending Law school should visit and consult with Dr. Leonard Cutler, Pre-Law Advisor, and review with him the Law School handbook, law school catalogs, and application forms and information on the Law School Admission Test (LSAT). Additional Information and other publications on the study of law are available at the Career Center.

### **Pre-Medical, Pre-Dental and other Health-Related Studies**

Siena students preparing for the study of medicine, dentistry and most other health professions careers normally major in one of the sciences. The minimum undergraduate course requirements for entry to medical or dental school include: General Biology I and II, General Chemistry I, General Chemistry II, Organic Chemistry I and II, General Physics IA (or I) and IIA (or II), Calculus I and Mathematics II (or Calculus II), and one year of college-level English. Students in any of the science majors can accommodate these 40 credits of science within their degree program. Additional Biology courses (Cell Biology and Biochemistry) are recommended. All students should consult with the Health Professions Advisor and their academic advisor to insure appropriate course selection and course sequencing. Students interested in other health professions should consult with the Health Professions Advisor to be certain of meeting specific requirements for other professional schools. *The Health Professions Recommendation Committee* considers applications for careers in dentistry, medicine, optometry, osteopathic medicine, podiatry, and veterinary medicine.

### **Allied Health Professions**

Students interested in the allied health professions (physical therapy, physician assistant, etc.) are advised to take Human Biology (SCDV—210, SCDV—211) and should consult with the Allied Health Professions Advisor.



# Affiliation/Articulation Agreements

## Affiliation/Articulation Agreements with 2-Year Institutions

Siena College has developed affiliation agreements with Hudson Valley Community College, Adirondack Community College, and Ulster County Community College. The Science Division also has an affiliation agreement with Schenectady County Community College and SUNY-Cobleskill. Under the terms of these agreements, students who complete the programs outlined in the Community Colleges' catalogs and maintain the standards prescribed by the Coordinator of Transfer Admissions and the Dean of the appropriate School at Siena will be admitted to the College. Under ordinary circumstances, these students will be able to complete the requirements for a bachelor's degree in two years.

Students interested in further information about these programs should consult with the Coordinator of Transfer Admissions or the Assistant to the Dean of the appropriate School at Siena College.

## Albany Medical College Early Assurance Program for Underrepresented Students

Albany Medical College will accept two underrepresented students at the completion of the sophomore year. The accepted students remain at Siena and complete their degree in the major of their choosing. To be eligible to apply students must have completed half of the required premedical courses with a 3.2 overall and science gpa. The required courses are: General Biology I & II, General Chemistry I & II, Organic Chemistry I & II, General Physics I & II.

## Albany Medical College Program in Science, Humanities and Medicine

Personally and academically talented high school seniors who have demonstrated a commitment to the service of others will be jointly accepted by Siena and Albany Medical College into a unique eight-year program in medical education. A 3.4 average in the sciences is required to remain in the program. In the junior and senior years at Siena, academic emphasis will be placed on the humanities. Students in this program will be required to declare a minor in one of the humanities or social sciences and will earn a B.A. degree in Biology (see Biology Department listing for specific course requirements).

An extended commitment to volunteer service is required of all program participants during the summer between the junior and senior years. Funding is provided for travel and living expenses.

A separate application is required and may be obtained by writing or calling the Admissions Office at (518) 783-2423. Deadline for applying to the program is December 15 of the student's senior year in high school.

## **Boston University Goldman School of Graduate Dentistry**

Up to five rising sophomores may be accepted into this accelerated program leading to the D.M.D. degree. Students enrolled in this 7-year program will complete the first three years of pre-professional training at Siena College. They will enroll at BUSGD beginning their fourth year. Students will be awarded a B.S. in Biology by Siena College upon successfully completing their first year at BUSGD. A variety of experiences to expose the student to the dental profession will be offered during the Siena phase of the program.

## **Business Management Programs**

### **Clarkson University**

Siena College and the School of Business at Clarkson University have cooperated in establishing a 4/1 program that enables the student to earn the undergraduate degree and the MBA in five years. Through careful advisement, students may plan their undergraduate programs to include certain approved foundation courses that serve as preparation for graduate work in management. A Siena graduate meeting the program requirements and Clarkson's standards for admission will be accepted into the MBA program at Clarkson. Students interested in pursuing such a program should consult with the Assistant to the Dean in the School of Business.

### **Lubin School of Business at Pace University - MBA**

Siena College and the Lubin School of Business at Pace University have cooperated in establishing a 4/1 program that enables the student to earn the undergraduate degree and the MBA in five years. Through careful advisement, students may plan their undergraduate programs to include certain approved foundation courses that serve as preparation for graduate work in management. A Siena graduate meeting the program requirements and Lubin's standards for admission will be accepted into the Lubin MBA Program. Students interested in pursuing such a program should consult with the Assistant Dean in the School of Business.

### **Pace University - MS in Information Systems**

Siena College and the School of Computer Science and Information Systems at Pace University have cooperated in establishing a 4/1 program that enables the student to earn the undergraduate degree and the MS in five years. Through careful advisement, students may plan their undergraduate programs to include certain approved foundation courses that serve as preparation for graduate work in computer science and information systems. A Siena graduate meeting the program requirements and Pace's standards for admission will be accepted into the MS program at Pace. Students interested in pursuing such a program should consult with the Assistant to the Dean in the School of Business.

### **Union College**

Siena College and the Graduate Management Institute at Union College have cooperated in establishing a 4/1 program that enables the student to earn the undergraduate degree and MBA in five years. Through careful advisement, students may plan their undergraduate programs to include certain approved foun-

dition courses that serve as preparation for graduate work in management. A Siena graduate meeting the program requirements and Union's standards for admission will be accepted into the MBA program at Union. Students interested in pursuing such a program should consult with the Assistant to the Dean in the School of Business.

## Engineering Programs

Siena participates with Rensselaer Polytechnic Institute, Catholic University, Clarkson University, Manhattan College, SUNY-Binghamton and Western New England College in a cooperative science-engineering program. The program is a combined five-year sequence which leads to a B.S. degree in chemistry, computer science, physics or mathematics from Siena and a B.E. degree in aeronautical, biomedical, civil, chemical, electrical, industrial, materials, mechanical or nuclear engineering at one of the six cooperating schools. (Not all of these disciplines are available at all of the engineering schools and some additional specialties and variations are available at individual institutions.) A student will attend Siena for the first three years majoring in chemistry, computer science, physics, or math-science. Upon the successful completion of the third year with a clearly demonstrated potential of success in engineering and the recommendation of the Dean of Science, such students would transfer into an engineering program at one of these cooperating colleges. Upon completion of the fourth year, Siena will award a B.S. degree in the appropriate discipline. The student is awarded the B.E. degree at the successful completion of the fifth year. Since available space may occasionally limit the number of applicants accepted in a specific area, students should apply early for transfer and maintain flexibility.

To ensure proper course selection, all students should consult both their academic advisor and the 3/2 Engineering Coordinator, Dr. Leonard Merrill, at least once each semester.

## Environmental Science/Forestry Program

Students interested in a B.S. degree in environmental science or forestry may enter a cooperative program between Siena and SUNY-Syracuse. The SUNY-Syracuse School of Environmental Science and Forestry accepts transfer students at the junior level. The first two years of the bachelor's degree may be taken at Siena. Siena and SUNY-Syracuse have developed a cooperative program that guarantees acceptance of all credits earned following this program in which the student has attained a grade of C or better from Siena. Students who apply to SUNY-Syracuse after successful completion of their sophomore year may generally expect to be granted admission with full junior status. Students interested in this program should consult with the Biology Department's ESF advisor, Dr. Douglas Fraser.

## Hudson-Mohawk Association

Full-time matriculated students enjoy unusual opportunities for enriching their education through Siena's membership in the Hudson-Mohawk Association of Colleges and Universities. Members of the Association are Albany College of Pharmacy, Albany Law School, Albany Medical College, The

College of Saint Rose, Empire State College, Hartwick College, Hudson Valley Community College, Junior College of Albany, Maria College, North Adams State College, Regents College, Rensselaer Polytechnic Institute, Russell Sage College, Schenectady County Community College, Siena College, Skidmore College, State University of New York at Albany, and Union College. Qualified Siena students are eligible to register for courses offered at other institutions in the Association, provided they have the approval of their faculty advisor and Dean. Students taking advantage of the cross-registration privileges are subject to the regulations and policies of the host institution. Grades and credits earned at another institution in the Association will become part of the student's permanent record at Siena College and are included in the calculation of the term and cumulative indices. Summer Sessions are excluded from the cross-registration agreement. Contact the Registrar for further information.

## **Law School Programs**

### **Pace University Law School**

Siena College and Pace University Law School have cooperated in establishing a 4/3 Program that enables the student at the conclusion of his/her freshman year to apply for acceptance to Pace Law School upon graduation from Siena College, provided the academic standards are met. These include maintaining a 3.20 GPA and a 155 on the LSAT during the Sophomore, Junior and Senior years. Students interested in the program should consult with the Pre-Law Advisor, Dr. Leonard Cutler.

### **Western New England College School of Law**

Siena College and Western New England College School of Law have arranged a 4/3 Program that enables the student at the conclusion of his/her freshman year to be accepted to Western New England College of Law, upon graduation from Siena College and provided academic and fitness standards are met. These include maintaining a 3.30 GPA during the Sophomore, Junior, and Senior years, achieving an established score on the LSAT, a personal interview with a professional admissions staff member, and satisfying character and fitness standards established by Western New England College of Law. Final decisions on acceptance will be made in the first semester of the student's senior year.

Students interested in either program should consult with the Pre-Law Advisor, Dr. Leonard Cutler.

### **Pennsylvania College of Optometry Program in Optometry (Accelerated program)**

Siena and Pennsylvania College of Optometry offer a time-shortened program leading to an optometry doctorate. Qualified Siena students will be accepted to Pennsylvania College of Optometry after completing three years in Siena's accelerated Biology curriculum. Siena will grant the Bachelor of Science degree when the student has completed his or her first year of professional study.

## Social Work Masters Programs

### Siena B.S.W. Program/New York University Masters in Social Work Degree Program (Advanced Standing)

The New York University Ehrenkranz School of Social Work will accept graduating seniors from the Siena College B.S.W. Social Work Program for early admission into the Advanced Standing Component of the M.S.W. Program. To be considered for early admission, in addition to meeting all other general admission criteria, students must have at least a B average overall and a minimum of 3.0 in the major, a commitment to social justice, and the concern, caring, and maturity necessary to be a helping professional. Applicants must be strongly recommended by the Siena College B.S.W. Program Director and/or the Coordinator of Field Education. The majority of the student's field placement work must be in direct practice. Deadline for submission of applications for the early admissions track of the New York University Ehrenkranz School of Social Work M.S.W. Degree Program is **March 15** of each academic year.

The New York University Ehrenkranz School of Social Work will provide a scholarship to one Siena College B.S.W. graduating student who is admitted through the early admission decision track (approximately two-thirds of tuition for a given academic year). In addition, all accepted students will be actively considered for the full range of financial aid that they may qualify for and that may be available including scholarships, loans, and other possible resources.

### Siena B.S.W. Program/Fordham University Masters in Social Work Degree Program (Advanced Standing)

The Fordham University Graduate School of Social Service will accept graduating seniors from the Siena College B.S.W. Social Work Program for early admission into the Advanced Standing Component of the M.S.W. Program. To be considered for early admission, in addition to meeting all other general admission criteria, students must have at least a B average overall and a minimum of 3.0 in the major, a commitment to social justice, and the concern, caring, and maturity necessary to be a helping professional. Applicants must be strongly recommended by the Siena College B.S.W. Program Director and/or the Coordinator of Field Education. The majority of the student's field placement work must be in direct practice. Deadline for submission of applications for the early admissions track of The Fordham University Graduate School of Social Science M.S.W. Degree Program is **March 15** of each academic year. The Fordham University Graduate School of Social Service will set aside two places for Siena B.S.W. graduates in the entering Advanced Standing class each year. This does not, however, preclude the acceptance of more than two qualified students, should more students wish to apply.

Fordham University Graduate School of Social Service will provide a scholarship to one Siena College B.S.W. graduating student who is admitted through the early admission decision track (\$4,000. annually, \$2,000 per semester). The scholarship recipient must convey a commitment to working with an oppressed population as demonstrated through fieldwork and letters of recommendation. Scholarships will also be provided to any students who demonstrate financial need. All accepted stu-

dents will be actively considered for the full range of financial aid that they may qualify for and that may be available including scholarships, loans, and other possible resources.

### **Siena B.S.W. Program/Syracuse University Masters in Social Work Degree Program (Advanced Standing)**

Syracuse University School of Social Work will accept graduating seniors from the Siena College B.S.W. Social Work Program for early admission into the Advanced Standing Component of the M.S.W. Program. To be considered for early admission, in addition to meeting all other general admission criteria, students must have at least a minimum overall G.P.A. of 3.0 as well as a minimum G.P.A. of 3.0 in the major, a commitment to social justice and positive social change, and a respect and appreciation for human diversity. Applicants must be strongly recommended by the Siena College B.S.W. Program Director. Deadline for submission of applications for the early admissions track of the Syracuse University School of Social Work M.S.W. Degree Program is **February 15** of each academic year. An admission decision will be rendered by **March 15**. The Syracuse University Graduate School of Social Work will set aside two places for Siena B.S.W. graduates in the entering Advanced Standing class each year. This does not, however, preclude the acceptance of more than two qualified students, should more students wish to apply. There is no limit on the number of students who can apply for early admission.

Syracuse University Graduate School of Social Work will provide, to up to two students who are admitted through the early admission decision track, scholarship awards (equivalent to at least twelve credits for the academic year to be distributed between the fall and spring semester). Scholarship recipients must demonstrate activity in advancing the profession's agenda in social justice and/or human diversity and must be strongly recommended by the Siena College B.S.W. Program Director. Demonstrated financial need as well as academic merit will be considered in the award process. Early notification of scholarship awards is guaranteed to up to two students who have been selected for scholarship awards, provided that they meet the early admission decision deadline. Other early decision applicants will receive notification regarding whether or not they qualify for scholarship funds at a later date. All accepted students will be actively considered for the full range of financial aid that they may qualify for and that may be available including scholarships, loans, and other possible resources.

### **State University of New York at Buffalo School of Dental Medicine (Early Assurance Program)**

The cooperative program between Siena College and SUNY at Buffalo School of Dental Medicine was designed to assure an undergraduate student an acceptance into dental school after two years of study, thus allowing completion of their four-year undergraduate education without concern for admission to professional school. During the third year at Siena, program participants must gain experience in clinical dentistry and are permitted to participate in the summer research program at Buffalo School of Dental Medicine.

### **State University of New York College of Optometry Early Assurance Program**

This is an eight year program designed to assure high ability undergraduate students an acceptance into a Doctor of Optometry program at the end of their second year at Siena. Students complete their undergraduate work prior to continuing on to the professional aspects of their program.

### **State University of New York College of Optometry Joint Affiliation (Accelerated program)**

Up to six students per year may be admitted into a seven year Bachelor of Arts or Science and Doctor of Optometry (O.D.) Program. Students accepted to the Joint Degrees Program are admitted to a designated, prescribed major at Siena College and simultaneously admitted to candidacy to the SUNY College of Optometry's professional program of study. Students complete three years of pre-professional training at Siena College. They will enroll at SUNY Optometry beginning their fourth year. Students will be awarded a B.S. in Biology upon successfully completing their first year at SUNY.

### **SUNY College of Medicine (Health Science Center, Syracuse): Early Assurance Program**

Students apply during the spring semester of their sophomore year. Acceptances are announced by August. Accepted candidates are expected to complete their bachelor's degree at Siena, maintaining the same academic standards. The program relieves students of the anxiety of the traditional application process.

Requirements include (1) 3.5 grade point average, (2) completion of three of the required science courses, (3) recommendation by the Health Professions Committee, (4) SAT scores and (5) a personal statement. The MCAT test is not required.

Interested students should consult with the Health Professions Advisor.

### **Temple University College of Podiatric Medicine (Accelerated program)**

Siena and Temple University College of Podiatric Medicine offer a time-shortened program leading to the degree Doctor of Podiatric Medicine. Students will be considered for acceptance by Temple University College of Podiatric Medicine during the fall of their junior year, would begin study at TUCPM after completing their junior year at Siena and would be awarded a B.S. from Siena after completion of the first year of professional education at TUCPM.

## Special Programs

### **Kieval Institute for Jewish-Christian Studies at Siena College**

The Kieval Institute for Jewish-Christian Studies at Siena College was founded in 1983 with a gift from Charles and Thelma Buchman, long-time benefactors of the College. They have assisted in the support of the program annually and recently created an endowment to enhance the Institute's work.

The Institute provides a major resource in the Capital Region for the study of Judaism and its historical interrelationships with Christianity. Increased understanding and appreciation of the two faiths come through workshops, seminars and speakers on such topics as "Conflicts Between Jews and Christians," "Vatican II and the Jews — 20 Years After" and "The Church and Israel: The People and its Land."

Dr. Peter S. Zaas, Professor of Religious Studies at Siena, is the acting director of the Institute, with a Board of Directors that includes civic and academic leaders of the Roman Catholic, Jewish and Protestant communities.

### **The Martin Luther King, Jr. and Coretta Scott King Lecture Series on Race and Nonviolent Social Change**

The Martin Luther King, Jr. and Coretta Scott King Lecture Series on Race and Nonviolent Social Change was established in 1988. It preserves the legacy of the nonviolent human rights movement as it was expressed in the life and teachings of Dr. Martin Luther King, Jr. and has been continued after his death by Coretta Scott King. This lecture series explores how problems such as racism, sexism, classism, militarism, and prejudice in our nation and throughout the world can be confronted effectively through dynamic efforts informed by principles of social justice and nonviolent action. Speakers in the series have included Harry Belafonte, Eleanor Holmes Norton, the Reverend Allan Boesak, Ruby Dee, Robert Coles, Sara Lawrence-Lightfoot, Elie Wiesel, Henry Louis Gates, Jr., Marian Wright Edelman, Jonathan Kozol, Cornel West, Johnnetta B. Cole, Lani Guinier, and Eric H.F. Law. Lecturers are chosen by a board representing Siena and religious and civic leaders in the Capital Region. Additional information about this lecture series is available at [www.siena.edu/mlk](http://www.siena.edu/mlk).

### **Reinhold Niebuhr Institute of Religion and Culture**

The Reinhold Niebuhr Institute of Religion and Culture, an interdisciplinary, ecumenical, and interfaith community-oriented program, is named in honor of Reinhold Niebuhr, the 20th century Protestant theologian who spent a lifetime exploring the implications of religious faith for the public order. It sponsors lectures, workshops, and discussions on topics in which the interests of

religion, ethics, and society intersect. In recent years these have included nuclear disarmament, economic justice, interracial justice, and gender and society.

Among the distinguished lecturers and artists the Institute has sponsored or co-sponsored are: J. Bryan Hehir, Robert Jay Lifton, Alan Geyer, Kenneth Himes, Shirley Chisholm, Gar Alperovitz, Bishop Thomas Gumbleton, Bishop C. Dale White, Mark Gerzon, Coretta Scott King, James B. Nelson, Mary Frances Berry, Michael Kimmel, Pam McAllister, C.T. Vivian, Joseph Lowery, Carter Heyward, Vinie Burrows, Will D. Campbell, James M. Lawson, Jr., Gene Sharp, Donald Woods, Margaret Randall, Cesar Chavez, Harry Belafonte, and Nechama Tec.

Programs are developed by a broadly-based committee representing the various academic disciplines in the College and the Jewish, Protestant, and Roman Catholic organizations of the Capital Region. Additional information about this program is available at [www.siena.edu/ellard/niebuhr](http://www.siena.edu/ellard/niebuhr).

### **Siena Family Business Institute**

Mission Statement - To foster the recognition and continuity of family and closely held businesses by providing a range of programs and services that are designed to meet the educational, informational and interactive needs of the principals and members of those businesses supported by a college environment.

Corporate Partners: KeyBank N.A., McNamee Lochner Titus & Williams, Arthur Place and Company, CPAs.

Contact: Deirdre Sweeney, *Associate Director of Continuing and Professional Education*

### **Siena Research Institute**

Douglas A. Lonnstrom, *Director*

Mission Statement - to enhance the research capability of the college as well as increase the actual research output. This is accomplished by conducting local, state, regional, and national surveys; sponsoring academic symposia; and providing community service. The SRI has secondary missions of faculty development, student development, and expanding Siena's reputation.

# The Siena Community

## Office of the College Chaplain

The Office of the College Chaplain serves the students, faculty, staff, and alumni in the important role of articulation and communication of the Catholic and Franciscan identity of Siena College. This is an identity built upon the message of hope and healing revealed in the Gospel of Jesus Christ and put into effective action through the ministry of St. Francis of Assisi. Siena College is founded upon this message and offers its students the opportunity to integrate faith into their academic careers.

As a Catholic institution, Siena College strives to connect the pursuit of academic excellence with the pursuit of “faith seeking understanding,” the understanding not only of who we are, but also the purpose for which we have been created. At the heart of the Franciscan educational tradition lies the understanding that all knowledge and the pursuit of knowledge leads one to an encounter with and a revelation of God. To this end the Chaplain’s Office attempts to permeate the entire life of the Siena campus with the reality that faith must seek understanding if faith is to be efficacious.

The Chaplain’s Office, consisting of the College Chaplain and Associate Campus Ministers, works in concert with the Franciscan Community at Siena College. Together, they demonstrate a powerful witness for the role that God plays in day to day life, and they offer a lived example of the joy and courage it takes to be people of faith in the world of the 21st century.

The celebration of the Eucharistic liturgy is the heart of the spiritual and religious life of Siena. In addition, a number of programs and events assist in the living out of the witness that faith plays in day to day life. Through liturgical and sacramental celebrations, small faith-sharing groups, seminars and lectures on Catholic and faith issues, three-tiered retreat program (Freshmen Retreat, The Siena Experience, and Journey), Campus Retreat Days, and the Rite of Christian Initiation of Adults (where students can enter the Church or complete their sacramental preparation) to name a few programs, the Chaplain’s Office hopes to create an environment where one can grow in deep personal relationship with God as well as with the community. Building community, as a foundational principle of the Catholic tradition, is at the heart of all programs of the Chaplain’s Office.

Ultimately the great benefit of an education at Siena College is to be formed in the goodness of the Catholic educational tradition, a tradition that seeks to engage and nourish not only the mind, but the heart and soul as well.

## The Franciscan Center for Service and Advocacy

The Franciscan Center for Service and Advocacy serves as the College’s principal vehicle for promoting service with others, particularly among the poor and marginalized, as a Franciscan value and civic virtue.

The Franciscan Center offers an extensive volunteer service program for individuals (and groups) at more than seventy human service agencies and organizations in the Capital Region. The Center hosts a “Volunteer Service Fair” at the beginning of the Fall and Spring semesters, providing the opportunity for the Siena community to meet representatives from the various agencies and organizations, to learn about the needs in the local community and to choose placements for volunteer service.

The Franciscan Center offers special programs, academic courses, and seminars to help students connect their personal experiences of service among the poor with knowledge of social problems (e.g. hunger, poverty, homelessness) and Catholic Social Teaching and to encourage students to get involved in addressing issues of justice and peace.

A minor in Service and Advocacy (which includes a seminar and internship) is offered as part of the College’s academic program (consult the section on “Multidisciplinary Courses and Minors”).

The Office of the Franciscan Center for Service and Advocacy is located in the Sarazen Student Union, Room 320 (third floor). For more information about volunteer service opportunities and/or other programs sponsored by the Franciscan Center, contact the Director at 783-2333 or visit our web page: [www.siena.edu/fcsa/](http://www.siena.edu/fcsa/)

## **Student Life**

A major influence on the total development of the Siena student is the campus environment that fosters the growth of the body, mind and character of each individual. There are a wide variety of educational, social and cultural programs that provide opportunities for experiences that complement the academic program of the College and that foster the acquisition of a liberal arts education.

To assure that the campus environment remains one conducive to student development, the Code of Conduct for Students sets forth the minimal principles that should guide the behavior of all students, so that the campus serves as a place where students can pursue knowledge in an atmosphere conducive to individual growth. The Code is published in the student handbook, *Siena Life*. Each student is expected to obtain a copy of the current handbook and know its contents.

## **Student Government**

Students may take an active role in campus affairs through involvement with the Student Senate, Student Events Board, Hall Councils or one of 70+ student organizations.

The Student Senate includes 23 elected or appointed representatives from the classes, residence units, the commuting population and from the student body at large. The senate represents the student body with matters concerning student life on campus.

The Student Events Board consists of 32 elected or appointed representatives and coordinates many extracurricular and co-curricular activities on campus.

Each residential area elects representatives to their respective hall council. The hall councils assist in the coordination of social activities within each residence unit.

### **Student Activities**

The program of extracurricular and co-curricular activities is sufficiently varied to offer a wide appeal. There are more than 70 student organizations chartered by the Student Senate.

The *Promethean*, the student newspaper, and *Saga*, the yearbook, provide publication opportunities. WVCR-FM, the campus radio station, provides opportunities in broadcasting, and Stage Three offers experiences in acting, stage management and production.

Among the student activities closely aligned to academic life are the Political Science Society, the National Association of Accountants, the Society for the Advancement of Management, the History Club, Harvard Model United Nations, the Finance and Business Societies, the Biology and Chemistry Clubs, the Computer Science Club and the Parnassus Society for English majors.

### **Weekend Activities**

Student organizations, Residential Life Staff, Class Councils and the Student Events Board regularly sponsor dances, dinners, outings and other community social events throughout the academic year.

Significant activities each year include Opening Week, Homecoming Weekend, Family Weekend, Winter Weekend, Siblings' Weekend, Charity Week, SienaFest and Earth Week.

### **Dramatics**

Stage Three, the campus theatre company, presents four major productions and a series of special events in cooperation with the Department of Creative Arts Theatre Program. The shows are cast and staffed from the Siena community and are directed and designed by professionals from Siena's theatre faculty, guest artists and qualified students. The use of guest artists in various capacities provides students with the opportunity of observing and interacting with theatre professionals from outside the campus community in the production process.

Members of Stage Three come from almost every major and are involved not only in campus productions but also in community service projects, presentations and workshops.

Stage Three is governed by a five-member board, nominated and elected by the general membership. Artistic direction and advisement are provided by the Theatre Program faculty and staff.

Stage Three members participate in the season selection process with the Theatre Program faculty and strive to achieve a diverse offering of theatrical productions each year. Recent productions include *A Midsummer Night's Dream*, *Drood*, *How I Learned to Drive*, *The Diary of Anne Frank* and the world premiere of *Monster Island*. The 2002-2003 season will feature *My Children! My Africa!*, *Tartuffe*, *On the Verge* and the winner of Siena's biennial International Playwrights Competition. Stage Three will also produce a performance that reflects on positive goals for campus life at Siena for the new student Orientation in the fall. In addition, Stage Three will be instrumental in presenting staged readings of *Uncle Tom's Cabin* and *The Vagina Monologues* during the 2002-2003 season.

## Music

In addition to its regular academic offerings the music program at Siena also offers opportunities for students to participate in orchestral and vocal ensembles in public performance. The Siena Chamber Orchestra and the Siena Chorus are two examples of courses offered for credit and designed with public performance as course objectives.

The Creative Arts Department cooperates with Stage Three, the student theatre company, in producing musical works from the American musical theatre.

In support of extracurricular activities, the department sponsors field trips each semester to New York City arts events such as opera, ballet and Broadway shows.

In conjunction with the Student Senate Committee on Creative Arts, the Creative Arts Department has sponsored the Siena Music Series for over twenty years. This series features a variety of concerts performed on campus by outstanding musical artists of international reputation. The recent seasons included The D'Oyly Carte opera company, the Baltimore Consort, pianist Michael Arnowitz, soprano Harolyn Blackwell, and a program of American music.

## Athletics Program

Athletics and recreation at Siena College are an integral part of the educational experience. Siena's intramural program offers full experiences in a variety of athletic areas. Types of programs that have been offered in the past include basketball, flag football, volleyball, bowling, golf, indoor soccer, roller hockey, racquetball, and others. Competition is between students and nearly 75 percent of the student body participates in intramural activity.

For a more competitive type, Siena sponsors club sports programs that compete with teams from other colleges and universities. Some of the club sports that have been offered include men's hockey, rugby, karate, skiing, equestrian, fencing, and swimming. The men's club hockey team has been a fixture in postseason play in the past.

Siena's varsity teams compete at the NCAA Division I level and its basketball teams, and most other varsity teams, compete in the Metro Atlantic Athletic Conference, which Siena has been a member of since 1989. In football, Siena

plays at the NCAA I-AA level and is a member of the MAAC Football League. Siena's NCAA Division I sports also include baseball, cross-country, women's field hockey, golf, lacrosse, soccer, softball, women's swimming and diving, tennis, women's volleyball, and women's water polo.

The men's basketball team won its first-ever MAAC Tournament Championship in 1999 and advanced to the NCAA Tournament for the first time in 10 years. The men's basketball team advanced to the second round of the 1989 NCAA Basketball Tournament, the volleyball team played in the 1995 NCAA Tournament and baseball competed in the 1999 NCAA Tournament. Men's basketball has been invited to the NIT four times and advanced to the finalist round in 1993 playing in front of a packed Madison Square Garden audience.

The men's basketball team plays its home games in the 15,500 seat Pepsi Arena just minutes from campus. Both Siena students and the community strongly support the program, making the Arena an energized college basketball environment.

Along with the Pepsi Arena, other venues include the on campus Alumni Recreation Center and Heritage Park. The women's basketball team, which captured the MAAC regular season title in 1994, 1998, and 1999, plays its home games in the ARC with strong support from the campus community and Capital Region community.

Football plays its home games at 5,500 seat Heritage Park. Siena football has been highlighted by the play of three-time Associated Press All-America running back Reggie Greene. Greene holds the NCAA I-AA career record for most yards rushing.

The Marcelle Athletic Complex is home to all recreational activities that take place on campus. The MAC features a field house with four full-size basketball courts, an elevated running track, four racquet sports courts, aerobic room, fitness area featuring Paramount weight lifting equipment, and a free weight room.

### **Concerts**

The Student Events Board regularly sponsors major concerts on campus and in local theaters. Recent national recording artists include Billy Joel, Natalie Merchant, Rusted Root, Third Eye Blind, The Temptations, The Four Tops, The Mighty, Mighty Bosstones, Blues Traveler, the Goo Goo Dolls and comedians Bill Cosby, Chris Rock and Mario Joyner.

### **Guest Lecturers**

To further stimulate the intellectual and cultural life of the Siena community and to encourage participation with the faculty and students of other institutions, noted lecturers and speakers are brought to the Siena campus.

Among the lecturers appearing at the College recently were: former Haitian President Jean-Bertrand Aristide, John Ratzemberger of "Cheers," Spike Lee, Philip Agee, Rita Marley, Chai Ling, Sharon Pratt Kelly, Fr. Joseph Girzone, and Marv Levy, former Buffalo Bills head coach.

## Residence Life

Campus residence facilities are available in Hennepin, Hines, Padua, Plassman, and Ryan halls, providing mostly double rooms, but with some four- and six-person suites. Cushing Village and MacClosky Square, the 650-person town-house apartment complex accommodates eight, six or four students in each unit.

Each residence unit is staffed with a Residence Director who is responsible for the management of the facility, Friars in Residence who are available to advise and counsel students, and Resident Assistants who are carefully selected upperclass students employed to assist the students and the Director.

Students in residence are supplied with a desk, chair, chest of drawers, closet and bed. Blankets, pillows and bed linens are the responsibility of the individual student.

All full-time students with the exception of commuting students and transfer students are required to live in College residence facilities provided space is available and to purchase a board contract if the individual lives in an on-campus residence hall. The College provides on-campus residence space to freshmen and sophomore students to whatever degree possible. The room and board contract is binding for the entire academic year. Students may be permitted to live in community housing when it has been determined that there will not be enough rooms to accommodate all resident students. Permission will be granted on a first-come, first-served basis.

A commuter is defined as any student living with parents, a wife, a husband, or a blood relative within a radius of 50 miles from Siena. A student living with a blood relative is asked to submit written verification from the relative indicating his or her place of residence. Further exception will be made for a student who is independent.

## Motor Vehicle Registration and Traffic Violations

All vehicles must have a permit to park on campus. Students must park in designated lots. See "Siena College Traffic Rules and Regulations" for a map. Due to a lack of parking facilities, resident freshmen are not permitted to have a vehicle on campus. A request for an exception (medical or employment) must be submitted to the Director of Security prior to a student bringing a car to campus.

### Registration of Motor Vehicles

- a. All students must register their motor vehicles with the Safety and Security Department. Upon presentation of State Department of Motor Vehicle registration and completion of the college form, a parking permit will be issued. The permit must be affixed to the rear side window on the driver's side of the vehicle.
- b. Registration is \$10 for the academic year. Additional vehicles are \$1 each.
- c. Registering the vehicle of another student, for any reason, will be considered falsification of registration and subjects the individuals involved to a fine of \$100 each.

- d. Resident freshmen are prohibited from having vehicles on campus, and those found to have a vehicle being kept on campus without prior authorization are subject to a \$100 fine.

### **Temporary Parking Permits**

Temporary Parking Permits are issued for a period of up to three weeks and may be obtained from the Safety and Security Department at no cost. (Resident freshmen must obtain permission for a temporary parking permit from the Director of Security, Security Office, prior to bringing a car to campus.) These permits may be obtained 24 hours a day, seven days a week, at the Safety and Security Department on the North side of campus in the Plant Operations Building. Permits are issued to visitors and students who demonstrate need and who would otherwise be entitled to possess a regular parking permit.

### **Student Traffic Appeals Board**

The purpose of this Board is to hear appeals from students who wish to challenge tickets issued by the Safety and Security Department. The Board consists of a representative of the Student Affairs Office, Safety and Security Department, a commuting student, resident student, and a townhouse student (the last three members are appointed by the Student Senate).

Students wishing to appeal a traffic ticket issued to them should obtain an appeal form from the Safety and Security Department and forward it to the Review Board (through the Safety and Security Department) no later than 60 calendar days from the date of the cited violation. After 60 days, tickets may not be appealed. Decisions of the Board are final and may not be appealed.



## Dining

During the academic year when the residence halls are open, Serra Dining Hall provides meals for all resident students. There is a variety of meal plans from which a student can choose. Meals are served according to the following schedule daily except during academic holiday periods:

<i>Weekdays:</i> .....	7:30 a.m. - 7:00 p.m.
Breakfast, Lunch, Dinner	
<i>Weekends:</i> .....	8:00 a.m. - 6:30 p.m.
Continental Breakfast, Brunch, Dinner	

## Student Services

### Orientation

Orientation is designed to acclimate new students and families to the campus environment. The extended orientation program consists of four phases. New students and families are invited to Phase One in June or July for an introduction to the academic community. Phase Two features the college's ropes course and focuses on leadership development. During Phase Three residence students are moved into the residence halls and commuters are checked in at the Sarazen Student Union. Phase Four concludes in December and features academic and social survival skill workshops and summer orientation "reunion" meetings.

### Commuter Students

A commuter lounge complete with TV and kitchenette is available in the Sarazen Student Union. Concerns of commuting students are addressed by the Student Senate, and the Office of Campus Programs. Representatives are elected from the commuting population attending the College to sit on the Student Senate and Student Events Board.

### The Sarazen Student Union

The Sarazen Student Union is the facility provided for the extracurricular activities program and an area in which students can relax, socialize and study. It includes spacious lounges, meeting rooms, Pepsi Café, Student Leadership Lounge, Promethean, SAGA Yearbook, student government offices, multicultural center, commuter lounge, Information Desk, a publication work area, the post office, the Multicultural Affairs Office, Residential Life, Campus Programs Office, Franciscan Center for Service and Advocacy, and Office of the Vice President for Student Affairs. The Sarazen Student Union is open daily except during academic holiday periods.

The Pepsi Café offers snacks, lunches, dinners, and beverages. It is open daily except during academic holiday periods.

### Pepsi Café Hours

Monday through Thursday,	7:30 a.m. - 1:00 a.m.
Friday,	7:30 a.m. - 2:00 a.m.
Saturday,	10:00 a.m. - 2:00 a.m.
Sunday,	10:00 a.m. - 1:00 a.m.

## Multicultural Affairs

The Office of Multicultural Affairs, located in the Sarazen Student Union, is committed to promoting racial understanding by developing programs that increase knowledge, appreciation and respect for all cultural and ethnic groups. This Office encourages all members of the College to be models for the larger community on issues of diversity and multiculturalism. The office seeks to eliminate oppression and to make the Siena College Campus a diverse community. The office supervises the Multicultural Center, where celebrations of cultural groups are conducted and where there is a growing resource of materials on multicultural issues. All students, faculty and staff are encouraged to use the services of the Office and the Center.

## The Counseling Center

The Counseling Center, located in Siena Hall, Room 121, provides counseling, testing, assessment, referral and crisis services to all registered students and acts as a consultant to faculty and non-faculty members of the community. Counseling is available to assist students to achieve their educational, career and personal goals. In order to accomplish these objectives the Center offers the following services:

*Personal Counseling and Psychotherapy* to help with concerns and difficulties which interfere with an individual's ability to function effectively and experience a sense of well being. Concerns may include family issues, relationship issues, sexual assault, depression, disordered eating behaviors, anxiety and/or self-esteem issues.

*Career Development Counseling* to help students who are unsure about their academic major or future career. Assistance is also available for students facing a life-style or career change brought about by economic or personal considerations. Using psychological tests, students may gain information about their interests, aptitudes, personality factors and skills. Such information, when related to other issues in a student's life may then be used in the career decision making process.

*Educational Counseling* helps students to work at an optimum level. Such counseling includes concerns about study skills, time management, stress management and procrastination behaviors.

*Alcohol and other Substance Abuse Counseling* is available to help individuals assess the extent of the problem, provide short-term support and facilitate referral to appropriate outside resources. The assessment process will generally include psychological testing and several interviews.

*Consultation services* are available to all members of the community. Individuals may wish to speak to a professional about their own difficulties and obtain appropriate off-campus referrals. Faculty, staff and students may wish to consult about the best way to deal with other members of the community.

*Psychiatric services* are available on a consulting basis for students who might benefit from the addition of medication, eg, antidepressants, anti-anxiety drugs, to their current treatment plan. Students must be current clients of the Counseling Center.

Psychologists and professional counselors generally conduct counseling on a one-to-one basis. Group programs are offered depending upon need and interest. All sessions, either group or individual, are held in strict confidence. No information about a student may be released without written consent from that student. Appointments may be scheduled by calling 783-2342 or in person at the Center. There is no fee for services.

### **The Writing Center**

The staff of the Writing Center offers free one-to-one assistance to all students, faculty, and staff at Siena College. Highly trained, caring, and compassionate peer tutors provide objective, critical responses to drafts at all stages in the writing process. No matter what the writing project—from a research paper to a resume—Writing Center tutors can help writers generate ideas, organize an argument, clarify purpose, or identify an audience. In addition to our regular services, tutors are available in the Writing Center for students preparing lab reports and scientific research papers. Foundations students will find tutors who are prepared to help them understand writing assignments and respond to those assignments fully. The Writing Center's Mission Statement and additional information about the Writing Center at Siena College can be found at <http://www.siena.edu/writingcenter/>. The Writing Center is open Sunday, Tuesday, and Thursday from 1:00-4:00 and 5:00-9:00, Monday and Wednesday from 10:30-1:30 and 5:00-9:00, and on Friday from 10:30-1:30. Appointments can be scheduled by telephoning 783-4125. Queries may be directed via email to [blewis@Siena.Edu](mailto:blewis@Siena.Edu) or by telephoning the Director of the Writing Center at 782-6510.

### **Office of Tutoring and Services for Students with Disabilities**

Tutoring is available to all enrolled Siena students. The office is located in Siena Hall III. Walk-ins are welcome, or you may contact us at 783-4239 for an appointment.

You can also visit us at [www.siena.edu/advising/tutoring.html](http://www.siena.edu/advising/tutoring.html).

Siena College views each student with a disability as an individual. Although you are encouraged to register with the office upon acceptance to the college, you may do so at any time. Accommodations, however, are not retroactive. To register with the office you must complete a student data sheet and provide current documentation of your disability. Please note: documentation should be forwarded by your high school or physician. The office will determine the appropriateness of all documentation. All information disclosed during the registration process is private and will not be released without the student's written permission. The college provides reasonable accommodations to all students

with disabilities, and assistance will be provided to develop an individualized accommodation plan. For further information, please visit our web site at [www.siena.edu/advising/disabilities.html](http://www.siena.edu/advising/disabilities.html).

### **Learning Support Services**

In addition to services provided by the Office of Tutoring and Services for Students with Disabilities, the Counseling Center, the Higher Education Opportunity Program, and the Writing Center, students are able to seek assistance from their academic advisor. Individual professors are willing to help with academic work in their courses. Academic advisors might be able to help directly or will know where appropriate help is available. Finally, students might consider discussing problems that they encounter with the department head in their major field.

### **Health Services**

The Siena College Health Service provides medical care for common health problems, health maintenance and health education. Services are provided by certified nurse practitioners in collaboration with a physician consultant, and registered professional nurses. The Siena Health Service Office is located on the lower level of the Marcelle Commons Building in Townhouse Complex. Clinic hours are Monday-Friday 9:00 a.m. - 5:00 p.m., on days classes are in session during the fall and spring semester. For more information, please contact the Health Service at (518) 783-2554, or visit our web page [www.siena.edu/studentaffairs/healthservices.htm](http://www.siena.edu/studentaffairs/healthservices.htm).



# Career Services

As part of the educational process at Siena College, the mission of the Career Center is to provide quality career services that enable diverse students and alumni to develop and fulfill their career objectives. Located in the Foy Campus Center, the “high touch and high tech” Center provides a balance between individual career advising for both graduate school/job searching and technological resources. Trained professionals assist students and alumni with the 3 stages of the career development process: self-assessment, career exploration, and graduate school/job searching:

*Self-Assessment:* Professional advisors are available to administer self-assessment instruments, to discuss various career options and to prepare students for a smooth transition to graduate school or the world of work. Students are encouraged to meet with a Career Center Advisor at least once a semester and as early as their first year.

*Career Exploration:* A variety of workshops and programs educate students about their career options such as “What Can I Do With A Major In...?,” “Summer Job Search Strategies,” and “Interviewing from the Recruiters Perspective.” Employer and graduate school information sessions are another way students learn about career choices. Freshman, sophomores and juniors receive internship listings as well as the *Career Center Updates* with information on how to prepare earlier for their career. An extensive Career and Graduate School Library contains graduate school catalogs, directories, books, magazines, employer literature and handouts for all majors and occupations. Siena students are also invited to participate in career fairs sponsored by the Hudson Mohawk Association of Colleges and Universities. Students are highly encouraged to complete credit-bearing internships through their faculty departments in order to gain important relevant experience and a better focus. In addition, Career Center listings of college work-study jobs, part-time jobs and summer paid/unpaid internships, job opportunities, and volunteer positions help students gain more career knowledge.

*Job/Graduate School Searching:* The Center’s Resume & Cover Letter Critique Service promises a careful review and return of the student’s documents within 48 hours. Likewise, Career Advisors are ready to educate students about their graduate school options and review the student’s application materials and establish a Credentials File for letters of recommendation. Students considering pursuing professional or graduate study are encouraged to consult with their academic advisor early in their college career to determine the necessary requirements for graduate study in their discipline and to plan their curriculum accordingly. With networking being the number one job search strategy, the Center is fortunate to have the Siena Career Advisory Network (SCAN) and an annual Networking and Recruiting Night. These alumni volunteers are willing to talk and advise students about their careers and may be able to connect them with career opportunities. In addition, the

Center supports students' search efforts with an extensive Recruiting Program, Manhattan Recruiting Day and convenient evening hours. The Career Center receives both local and national job listings for diverse career fields. Education department students are assisted through job listings, an annual Teacher Expo, and a Credentials File Service. Seniors receive a monthly *Senior Job Bulletin* as well as weekly e-mail that educates them about their career choices and informs them of Career Center events and opportunities. Alumni are welcome to use all the services of the Career Center free of charge and can subscribe to the bi-monthly *Alumni Job Bulletin*.

*Technology:* The Career Center has computers for Internet career searching, CD-ROMs, an employer and graduate school video library, a laser printer for resumes and cover letters, and a fax for student use. The Resume Online Service allows students and alumni to post their resume to the Career Center web site for prospective recruiters to view. The Career Center participates in the annual New York State Virtual Job Fair which allows Siena students and alumni to access 350 employers for part-time and full-time jobs. Students are prepared for graduate school and job interviews by completing a video-taped Mock Interview with a Career Center Advisor. The Center is able to quickly inform students of important career updates through Siena's E-mail system and the Center's Web page ([www.siena.edu/careercenter](http://www.siena.edu/careercenter)).

*Results:* Siena graduates pursue professional positions in all fields and often careers not related to their major. For example, James Barba '66, CEO of Albany Medical Center, was a History major! The most recent survey of graduates conducted 9-12 months after commencement finds 74% employed, 21% pursuing graduate work, and 5% unemployed.





# Financial Aid

Desiring to place a college education within the reach of all deserving, qualified degree candidates, Siena College has from its founding sponsored financial assistance in many forms. Financial aid to students is awarded primarily on the basis of need. The College gives consideration to scholastic ability in determining the amount of scholarships and grants awarded from College funding. Specifically, the College offers the following types of campus based assistance to full-time matriculating students:

1. Franciscan Community and Siena College Scholarships Grants-in-Aid.
2. Funded Scholarships.
3. Federal/College Sponsored Supplemental Educational Opportunity Grants.
4. Federal/College Sponsored Perkins Loans.
5. Federal/College Sponsored Work-Study Program.
6. State Sponsored Higher Education Opportunity Program.

To be considered for federal financial assistance (loans, grants, and/or college work-study), students *must* file the Free Application for Federal Student Aid (FAFSA), available in the high school Guidance Office or the Financial Aid Office of any college. The CSS PROFILE form is not required. **The recommended date for filing financial aid forms for incoming freshmen is February 1; for transfers it is May 1. All new and continuing students must file by June 1. Please note that renewal of financial aid is dependent upon refiling the FAFSA each year.** As major changes may occur from year to year, check with a Siena College financial aid officer to be sure the necessary forms have been filed.

*A brochure listing all types of financial assistance is available upon request. Write to: Office of Financial Aid, Siena College, 515 Loudon Road, Loudonville, New York 12211-1462 or e-mail at [aid@Siena.edu](mailto:aid@Siena.edu).*

## Grants and Scholarships from Siena Funds

Siena awards the following types of grants-in-aid and academic scholarships to full-time students requesting assistance. Students must submit the Free Application for Federal Student Aid (FAFSA) to be considered for any type of assistance, with the exception of Presidential Scholarships, Franciscan Scholarships, and Siena Humanities in Medicine Scholarships.

1. Presidential Scholarships are merit awards, renewable annually based on a minimum 3.1 cumulative average. These scholarships are offered to distinguished high school graduates based on their high school curriculum, high school average, results of standardized tests and letters of recommendation. These awards are extremely competitive. To enter the competition for a Presidential Scholarship, an admissions application must be filed no later

than January 15 of the student's senior year. Nominees will be required to attend a program to qualify for the scholarship.

2. Siena offers other academic scholarships (Franciscan Scholarships and Siena Humanities in Medicine Scholarships) without regard for financial need, to incoming freshmen who have outstanding academic records. Renewal is based on maintaining a 3.1 grade point average. If you do not file the FAFSA, you must submit a written request to be considered for an honorary award.
3. Siena College awards grants to students with demonstrated need. In general, this type of award will be renewed annually, provided the student continues to demonstrate need, maintains satisfactory academic progress, and files the Renewal FAFSA by June 1.
4. **Funded Scholarships:**

Unless otherwise noted, the following endowed scholarships are awarded by the financial aid committee as part of the financial aid packaging procedure. The scholarship criteria must be followed. In most cases, need, academic achievement and participation in extracurricular activities are considered in choosing award recipients.

The FAFSA must be filed in order for students to be considered for most of the following scholarships:

**The Dominick J. Agostino Memorial Scholarship**, established by his wife, Pat and his children Mary Beth and Ryan to honor the memory of Dom Agostino '68, is awarded annually to an incoming freshman. Preference is given to a resident student who is able to live at Siena because of this award.

**The George I. Alden Scholarship** fund was endowed through a challenge grant by the George I. Alden Trust and through the generous response of Siena's alumni and friends. The scholarship is awarded annually to students who demonstrate financial need.

**The Professor Roland A. Allen Memorial Scholarship** has been established by Thomas P. Fehlner to honor the memory of an outstanding Siena Physics Professor who served as his first scientific mentor. The scholarship will be awarded based on academic merit and financial need to students who are interested in the physical sciences.

**The AMSA Scholarship**, established by Michael Bucci '73 and James Nealy, is awarded annually to an incoming freshman student who is the son or daughter of an employee of Armored Motor Service of America, Inc. Preference will be given to students in Armored Motor Service of America, Inc. operating areas, who demonstrate financial need, good academic standing and strong participation in extra-curricular activities. In the event that there is no student applicant from Armored Motor Service of America, Inc., the scholarship will be awarded to a student from New York State.

**The James Barba Family Scholarship** was established in 1991 by James Barba, Sr. '56. This scholarship is awarded annually to students who demonstrate financial need and academic ability.

**The Charles P. Barrett Scholarship**, established in 1999, by Charles P. Barrett '49 in honor of his 50th year class anniversary. The scholarship will be awarded annually to a student in good academic standing, based on academic achievement and financial need. Preference will be given to graduates of Catholic Central High School in Troy, NY.

**The J. Patrick Barrett '59 and Thomas J. Murphy '67 Scholarship** has been established to provide minority students who are in financial need the opportunity to receive a Siena College education.

**The BBL Construction Services Scholarship** is awarded annually to entering or upperclass Siena students, with consideration being given to academic achievement and financial need. Preference will be given to residents of the Capital Region, and to sons and daughters of employees of the BB&L construction firm.

**The Larry Benzie '58 Memorial Scholarship** was established by his wife, Joan, in 1999. Preference is given to students whose residence is Watervliet, New York. Financial need is a criterion.

**The Keith Ronald Berry Memorial Scholarship** was established by his family to honor Keith and perpetuate the memory of Keith's charisma, compassionate manner, adventurous nature and his ability to bring people together in a friendly environment.

The scholarship is awarded annually to a junior, preferably a business major and will be renewed for that student's senior year based on academic performance and financial need.

**The Bethlehem Construction Corp./Wolanin Companies Ltd. Scholarship**, in memory of Vincent J. Wolanin, a Pennsylvania Law Enforcement Officer who died suddenly, was funded by his sons, Vincent M. Wolanin and Gregory M. Wolanin, and by Wolanin Companies Ltd. and its affiliates. Awards are made to a Siena student who exhibits financial need and demonstrates excellence in athletics or in mathematics, computer science, or physics. Preference is given to relatives of Wolanin Companies Ltd. employees, or to students who have lost a parent unexpectedly.

**The George D. Bigler Memorial Scholarship** was established to provide scholarships to full or part-time business students with a first priority given to students residing in Ulster County.

**Blass Communications Scholarship**, established by the Blass family and corporation to mark the 20th anniversary of R. T. Blass, Inc., is awarded annually to entering or upperclass students on the basis of academic eligibility. Preference is given to sons and daughters of employees of Blass Communications. Outstanding students who are majoring in Marketing and Management or Finance or who are pursuing a career in the field of communications is nominated by the Dean of the School of Business, and/or by the Admissions Committee. This scholarship is based on financial need and may be renewed.

**The Bond Family Scholarship**, established by Joseph F. '50 and Jane Bond, is awarded annually to entering students who demonstrate strong individual character, energy, academic promise and the ability to benefit from a Siena education. Preference is given to students who require this scholarship either to be able to attend Siena College or allow the student to enroll as an on-campus resident student. This award may be based on financial need or academic merit. Selection of these students is made by the Financial Aid Committee.

The scholarship is renewable for students who maintain a cumulative grade point average of 2.6 or better with a proven history of achievement in activities fulfilling the Franciscan ideals of the College.

**The Brescia Scholarship** is awarded to a student demonstrating financial need.

**The James M. Brett Scholarship** is awarded, based on academic merit and financial need, to a male student of Irish lineage who wishes to study law. The award may be renewed for four undergraduate years.

**The Buehler Family Scholarship** has been established by Paul J. Buehler '50 in memory of his wife, Ann Buehler. The scholarship will be awarded to students majoring in English who intend to pursue a career in teaching, or to students in the Sciences, to include without limitation, Biology, Chemistry, Physics or Computer Science. The scholarship will be awarded based on academic merit and financial need.

**The Ed and Colleen W. Butler Scholarship** was established to assist students from Ed Butler's home state of Vermont and Colleen's love for the Capital Region and Vermont. Preference is given to students enrolled in the School of Business.

**The Din and Carol Cahill Scholarship** was established by Carol Keenan/Cahill '74 and Daniel "Din" Cahill '75. It honors their parents who enabled them both to enjoy a "Siena Experience." Preference is given to students from Catholic high schools. This Scholarship is need based and renewable.

**The Callanan Industries Scholarship** is awarded annually to entering or upperclass students in good academic standing who demonstrate financial need. The scholarship is renewable. Preference is given to employees and sons and daughters of employees of Callanan Industries.

**The Capital Region Scholarship Fund** honors Siena's historic ties to the Capital Region and helps ensure that the College remains an attractive option to qualified and deserving local students.

**The Class of 1967 Scholarship** created by the Class of 1967 is awarded annually to a student demonstrating financial need. The award is renewable.

**The Class of 1980 Scholarship** created by the Class of 1980 is awarded annually to a junior and will be renewed for that student's senior year. Financial need is a criterion.

**The Class of 1981 Scholarship** created by the Class of 1981 is awarded annually to a junior and will be renewed for that student's senior year. Financial need is a criterion.

**The Class of 1982 Scholarship** created by the Class of 1982 is awarded annually to a junior and will be renewed for that student's senior year. Financial need is a criterion.

**The Class of 1983 Scholarship** created by the Class of 1983 is awarded annually to a junior and will be renewed for that student's senior year. Financial need is a criterion.

**The Peter A. Codina Scholarship** was established in October of 2000, to honor the memory of Peter Codina. Preference will be given to hard-working applicants of Hispanic background and/or origin.

**The Colbeth Scholarship in Entrepreneurship** is awarded annually to one or two senior students who have a demonstrated or expressed interest in entrepreneurship. This scholarship is underwritten by Mr. Douglas P. Colbeth '77 and Mrs. Margaret Lanzafame Colbeth '76. The award is based on financial need.

**The Colonial Plumbing Scholarship** is awarded annually based on academic merit and financial need. Preference is given to residents of the Capital Region interested in the field of business administration, and to sons, daughters and employees of the firm.

**Company I 85, 10th Mountain Division Endowed Scholarship** is awarded to family members of the 10th Mountain Division members. The scholarship is based on financial need.

**The Matthew T. Conlin, O.F.M. Scholarship** is awarded annually to an English major in the junior or senior class at Siena. It is given for academic ability, financial need and demonstrated contributions to the Franciscan ideals of the College. Nominations are submitted to the Financial Aid Director by the English Department. Eligible students must submit an essay describing their qualifications to the head of the English department.

**The Msgr. Joseph P. Conway '41 Memorial Scholarship**, was established by Dr. and Mrs. Michael E. Fleming '52, honors the memory of a saintly priest of the Albany Diocese and a member of Siena's first graduating class. Preference is given to candidates from the City of Troy and to those from the Village of Castleton. Financial need is a criterion.

**The Maureen O'Sullivan Cushing Scholarship**, established by her husband James E. Cushing, is awarded annually to incoming freshmen students. Preference is given to students whose major field of study is in the liberal arts. Scholarships are based on financial need and academic eligibility and may be renewed.

**The Robert and Trudy Cushing Scholarship** was established by Robert and Trudy Cushing, both members of the class of 1977, in gratitude for the education that Siena provided. The scholarship is awarded annually to a student in good academic standing who has a demonstrated financial need.

**The Joseph J. and Cecilia O'Neil Dawson Scholarship** is awarded annually to an incoming freshman who is a graduate from the Binghamton,

New York area. The student must demonstrate satisfactory academic performance and financial need. An award will be made to an incoming freshman every year. Scholarships will be renewed based on satisfactory academic performance and financial need.

**The Dr. Louis J. and Alice Gazeley DeRusso Scholarship** is awarded annually to members of the junior class from the Capital Region who intend to go to medical school. It may be renewed for the students' senior year. The scholarship recognizes the late Dr. DeRusso's (honorary alumnus-1966) deep humanitarian commitment to the medical profession and to the advancement of higher education. Nominations for the scholarship are made by the Health Professions Recommendation Committee. Awards are based on financial need and academic eligibility.

**NYC Scholarship in Honor of Thomas Devane '50** endowment is used to provide scholarships for academically promising students from the five boroughs of the City of New York based on financial need.

**The Dewar Scholarship** is awarded annually based on financial need and/or academic merit to graduates of Oneonta Senior High School, Oneonta, New York. Graduates of St. Mary's School, Walnut Street, Oneonta, New York, who subsequently graduate from high school in either Otsego or Delaware Counties, are also eligible.

**Empire State Association of Two-Year College Biologists Scholarships** of from \$100 to \$300 are awarded to talented transfer students in the biological sciences. Recipients chosen by the Association are eligible for a matching award from Siena College.

**The Equinox Scholarship** is awarded annually to a Siena student based on financial need. When possible the award should follow the same student during his or her four undergraduate years. Preference is given to a student from the Capital Region and/or the Adirondack Region of New York State.

**The Faculty Memorial Scholarship** is funded by donations from the Siena faculty, their families and friends. An award is presented each year in memory of a deceased Siena faculty member. The Scholarship is granted to a senior, based primarily on academic excellence. The recipient is selected by a faculty committee.

**The Patricia Ann Fish '79 Scholarship** is awarded annually on the basis of financial need. Preference is given to students of small public high schools with a graduating class of 100 or less. This Scholarship is renewable based on academic performance.

**Thomas Halpin Fitzgerald and Joan Fitzgerald Scholarship** is awarded annually to a student from St. Joseph's High School in Pittsfield, MA or from Nassau County, NY, on an alternating basis. If a student from St. Joseph's does not qualify in the year open to that institution, the scholarship award will revert to Nassau County. The scholarship is renewable contingent upon academic performance. The scholarship is based on financial need.

**The Noel A. Fitzpatrick, O.F.M. Scholarship** is awarded to a student from Bishop Timon High School in Buffalo, N.Y. It is based on academic ability, financial need, and the espousal of Christian ideals similar to those held by the late Father Noel. The scholarship is renewable. Recommendation is made by officials at Bishop Timon High School.

**The Ursula M. Forth Memorial Scholarship** has been established by the Forth Family to honor her memory. Ursula appreciated the spiritual and academic influence that Siena and the Franciscan Tradition had on her family. The scholarship will be awarded based on academic merit and financial need to commuting students from the Capital Region who are interested in the field of science or the liberal arts.

**George W. Foy Scholarship** is awarded annually to incoming needy freshmen residents of Albany County, graduating from Albany County high schools.

**The Franciscan Memorial Scholarship Fund** has been initiated with a contribution from the Friars of Siena College on behalf of the Province of the Most Holy Name of Jesus, of the Order of Friars Minor. The fund honors the devotion and dedication of the Friars who have served Siena over the past 50 years, from the founding of the College. The fund has been established in recognition of the longstanding tradition of Franciscan concern for those in society whose access to higher education has been restricted because of ethnic origin or social condition. Preference is given to individual students who have demonstrated concern for the well being of their communities. Recipients should be full-time students who exhibit financial need. The Director of Financial Aid will submit to the Guardian of the Siena Friary a list of all eligible candidates. Applicants will be recommended by the Guardian of the Siena Friary to the Financial Aid Committee. Final selection will be at the discretion of the Financial Aid Committee.

**Franciscan Tradition Scholarships** The spirit of volunteerism is alive and well at Siena, reflecting the College's Franciscan heritage. To recognize and strengthen that spirit, Franciscan Tradition Scholarships will be given to students who exemplify that spirit through service to Siena and the wider community.

**The Clifford and Mary A. Frasier Scholarship** was established by their son, Ernest '77, in 1999. It memorializes the love and devotion they gave to their family during their lifetime. The scholarship is awarded annually to a School of Business major who demonstrates high moral and ethical standards. The award is renewable based upon maintaining these standards. Financial need is a criterion.

**The John T. and Mary Regina Garry Scholarship**, established by John T. Garry II '50 and his wife, Mary Regina, is awarded annually to an upperclass student who has encountered unforeseen personal, financial or family circumstances which would preclude the continuation of studies at Siena. The scholarship is renewable contingent upon an annual review of the circumstances involved. The scholarship is need based.

**The William H. and Grace Cronin Gibbs Memorial Scholarship** was established by Mrs. Anne Gibbs Scripps in memory of her parents. The

scholarship is awarded annually to a student in good academic standing who is a History major. Financial need is a criterion.

**The Frank H. Gorke, Jr. Scholarship** established by Frank H. Gorke, Jr. '67 will be awarded annually to a graduate of LaSalle Institute, Troy, New York. Students must demonstrate financial need and academic ability. The award is renewable.

**The Catherine M. Grace Scholarship** is awarded annually based on academic achievement and financial need. Preference is given to non-traditional female Siena students.

**The Hollis E. and Elizabeth Hewlett Harrington Scholarship** is awarded annually on the basis of academic and financial eligibility. Preference is given to students in the School of Business majoring in Finance, Marketing and Management, Accounting, Economics, or International Studies. Daughters or sons of employees of Fleet Bank (formerly Norstar Bank) of Upstate New York are given first consideration. This scholarship is renewable.

**The Jeanne W. Harris Scholarship Award**, sponsored by the New York State Federation of Home Bureaus, is offered annually to an upperclass needy student in good academic standing pursuing studies in the field of Family Counseling. The student selected for this award must be a resident of a county where the Federation of Home Bureaus, Inc. has an organized chapter. Nominations are submitted to the Financial Aid Director by the Social Work Department Head.

**The Jack W. Harvey Memorial Scholarship** honors the memory of loyal alumnus and College trustee Jack Harvey '50, a prominent Indianapolis businessman. Established by his wife Betsey and his daughters Kelly, Meg and Mandy, this renewable scholarship is awarded annually to students who demonstrate financial need, strong citizenship, active campus and community involvement, and academic achievement.

**The William and Delia O'Donnell Harvey Memorial Scholarship**, established by Jack W. Harvey '50 and his wife, Betsey, of Indianapolis, is awarded annually to students pursuing a career in business or science. Preference is given to those expressing a special interest in computer related fields. The awarding of the scholarship is based on financial need and academic eligibility and is open to entering freshmen as well as upperclass students. The scholarship may be renewed.

**The Hayes Family Scholarship** was established by Michael M. Hayes '67 in honor of his parents, Irene M. and Michael C. Hayes. Preference is given to students from Fairfield County, Connecticut and children of employees of the M.M. Hayes, Co., Inc. The scholarship is renewable contingent upon academic success and contributions to campus life. Financial need is a criterion.

**The William Randolph Hearst Endowed Scholarship Fund** was established in 1987 by the William Randolph Hearst Foundation. It provides need-based scholarships annually to freshmen and upperclassmen.

**The Higgins Scholarship** is awarded to liberal arts majors at Siena College. Preference will be given to students who reside in the City of Yonkers

or the County of Westchester, New York, and who demonstrate financial need.

**The Anna and Charles Hines Scholarship** honors the parents of Fr. Hugh F. Hines, O.F.M., who was president of Siena College from 1976 to 1989. It was established by the Board of Trustees, in conjunction with former trustees and the Board of Associate Trustees. This scholarship is awarded annually to students who demonstrate financial need, academic ability, and value the Franciscan ideal of service to others.

**The Brian H. Holt Scholarship** was established by his family, friends and classmates to perpetuate the memory of Brian's courage, faith and captivating personality. The fund was subsequently greatly enhanced by the New York City District Council of Carpenters. It will be awarded annually with preference given to a student who demonstrates financial need, is an active participant in school activities, and is a citizen of Dutchess County in the State of New York or to members of the New York City District Council and to their spouses, sons and daughters. The award may be renewed on a yearly basis, depending on satisfactory academic progress and contributions to campus life.

**The Dr. Daniel J. Horgan Scholarship** has been established by his family to recognize Dr. Horgan's 46 years of teaching and administrative services to Siena College as well as their own close ties to the Siena Community. It is awarded annually to a student demonstrating superior academic ability without regard to financial need. The award is given to a full-time upperclass student who is a Spanish major.

**The Graham Hunter Scholarship** is awarded annually in honor of Graham Hunter, a naturalized American citizen of Scottish descent. Preference is given to an accounting major. Renewal is dependent on academic achievement. The scholarship is need based.

**The Father Mychal Judge, O.F.M. Scholarship** has been established to honor the memory of Fr. Mychal Judge, O.F.M. who served as Assistant to the President at Siena College in the late 1970's and as chaplain to the New York City Fire Department. The scholarship will be awarded to children of firefighters who gave their lives trying to save others in the World Trade Center tragedy on September 11, 2001. One new scholarship will be awarded each year based on demonstrated financial need.

**The Howard M. Kahn Scholarship** was established by the Kahn Family and Urbach Kahn & Werlin, PC (the firm which he co-founded) to perpetuate the memory of Howard M. Kahn (Siena Class of 1948). The scholarship recognizes Mr. Kahn's 40 years of association with Urbach Kahn & Werlin, PC, and his commitment to Siena College, the accounting profession, community organizations, and his family. This annual award will be made to accounting students who demonstrate financial need, good academic standing, and the attributes of Mr. Kahn. Additional preference will be given to graduates of Albany High School and/or to students who have lost a parent.

**The Barth J. Kelly, III '62 Memorial Scholarship** is awarded annually to an entering freshman. Preference is given to students from Monroe County, New York enrolled as full time Siena students in the School of

Business. Further consideration is extended to accounting majors and participants on a sports team represented by the Siena Athletic Department. The scholarship is based on financial need.

**The Helen and Theodore Kicinski Scholar Athlete Fund** was established in 1989 by Walter Kicinski '62. The Scholarship was created in honor of his parents and to assist students who participate in varsity athletics at Siena College. Awards will be given to those student athletes recommended by a Siena Team Coach, endorsed by the Director of Athletics and approved by the Director of Financial Aid, with preference given to diverse student athletes expected to participate in select varsity sports at the College.

**The Kiernan Scholarship** is awarded to a student demonstrating financial need.

**The John E. King Scholarship** is awarded annually to entering or upper-class students majoring in Accounting. Scholarships recognize Mr. King's 35 years of association with the firm of Shaye, Lutz, Schwartz & King (which merged with Coopers & Lybrand) and his devotion to the College and his profession.

**The Kolakowski Family Scholarship**, created by Edmund '51 and Gary '79, is intended to support an entering freshman considered to be an average student academically in his Siena class. Preference is given to student athletes. This award is based on financial need and is renewable.

**The Professor Edward J. LaRow Scholarship**, is awarded annually to a senior or junior student at Siena College who is interested in a career in the health professions and who has demonstrated significant academic achievement, the best qualities of the Franciscan tradition, and financial need. The scholarship, established by former students, recognizes Dr. LaRow's tireless dedication and service. Nominations for the scholarship are made by the Health Professions Recommendation Committee.

**The Isabelle Vogel Led Duke Memorial Scholarship** is awarded annually to entering or upperclass students on the basis of academic achievement and financial need. Preference is given to residents of the Capital Region. The scholarship was established in 1992 by Associate Trustee Donald Led Duke, his family, friends, and employees of Barry, Bette & Led Duke, Inc.

**The Mary Doran Leslie Memorial Scholarship** is awarded annually to students born in the United States of America who have graduated from high schools in a school district located entirely or partially within Schenectady County, NY, and shall be residents of Schenectady County at the time of their selection. Recipients are selected by the Financial Aid Office and approved by the Committee on Enrollment Management based on academic ability, financial need, and demonstration of character.

**The Louis Lombardi Memorial Scholarship** honors the memory of Louis Lombardi '43, former Siena professor and prominent Capital Region attorney and CPA. During his lifetime, Mr. Lombardi was dedicated to the service of others; this scholarship exemplifies his deep care and concern for fellow humans. The scholarship is awarded annually to a student who anti-

pates going to law school. Preference is given to disadvantaged students who demonstrate financial need and strong academic achievement. The scholarship may be renewed if the recipient maintains an Academic Honor List average.

**The Charles and Leona MacClosky Scholarship** is awarded annually to entering freshmen to develop Christian ideals, moral citizenship, and academic excellence. Awards are based on academic ability, citizenship, and financial need.

**The Dr. Neva M. Mahoney Scholarship** was established by the donor to provide students residing in the Capital Region of New York State an opportunity to attend Siena. A friend of the College, Dr. Mahoney received an Honorary Degree from Siena College in 1994. Financial need is a criterion.

**The Christopher Anthony Marchese Scholarship** was established by his family and friends to perpetuate the memory of Chris' scholastic abilities, his love of God, family, and all who knew him, and his charming, easy-going manner which endeared him to all. It is awarded annually to a student majoring in accounting, with preference given to a student from Long Island who demonstrates financial need.

**The Alberto '60 and Anabelle Mariaca Scholarship** is awarded to Bolivian residents, or Bolivian citizens residing in the United States, who meet all standard qualifications for admission, as full time, matriculated students, enrolled in four year degree programs.

**The Joseph P. Martin Memorial Scholarship** is awarded to a junior or senior, commuting student in the School of Science, with preference given to a Physics major. The scholarship is based on financial need.

**The McCarthy Scholarship**, established by the McCarthy Charities, Inc. in honor of its living and deceased members, is awarded annually to students from Rensselaer County who demonstrate high moral and ethical standards. Selection is based on financial need and academic achievement. The scholarship may be renewed.

**The Father William E. McConville, O.F.M. Scholarship** is awarded annually to an entering or current student with demonstrated financial need. Preference is given to a student with a strong academic record who has shown a consistent commitment to community service.

**Edward T. McCormick Scholarship** is awarded annually to incoming freshmen who are graduates of Catholic Central High School, La Salle Institute, or Troy High School of Troy, N.Y. Awards are based on need.

**The Robert J. & Thomas R. McCormick Scholarship** was endowed by Mr. Robert McCormick in honor of his sons. It recognizes his ties to Siena College and the Capital Region. The scholarship is awarded annually to a student in good academic standing who has a demonstrated financial need.

**The M. Margaret McGoldrick Scholarship**, established by her son, William P. McGoldrick '68, is awarded to students who participate in student communication activities and have financial need.

**The Robert J. Merritt Scholarship** is awarded to students on the basis of academic merit and financial need and may be renewed for four years of undergraduate study. Preference is given to students who are graduates of Chaminade High School in Mineola, NY and to children of employees of one of the building trades (plumbing, carpentry, electrical, etc.).

**The Dr. Pasquale and Marie Montesano Scholarship**, in memory of Dr. Pasquale & Marie Montesano, established by their son, Pasquale X. Montesano, MD '75, is awarded annually to academically talented and financially needy students interested in majoring in the sciences. Preference is given to students from the Mohawk Valley of Upstate New York. The award is renewable.

**The Father Donald J. Mooney, O.F.M., Scholarship** is awarded annually to an incoming freshman who is a member of St. Edward the Confessor Church, Clifton Park, N.Y. The student must demonstrate satisfactory academic performance and financial need. The award is renewed on a yearly basis depending on academic achievement and conduct. Nominations are submitted to the Financial Aid Director by the St. Edward Parish Scholarship Committee.

**The Michael, Helen and Aileen Moriarty Scholarship in honor of Fr. Michael Feeney, O.F.M.** was established by Michael J. Moriarty '55 in honor of Fr. Michael Feeney, O.F.M., whose dedication and devotion to Siena College was exemplary. Awards from the scholarship will be based on financial need and preferences will be given to student athletes who participate in a non-revenue sport represented by the Siena Athletic Department, first preference being given to student athletes who participate in tennis or cross-country track. The Director of Financial Aid will consult with the Siena College Athletic Director to determine the recipient of the scholarship.

**The Morrell Family Scholarship** is awarded annually to an upperclass student who exhibits James J. Morrell's '66 active involvement in community service endeavors and commitment to his fellow man. The scholarship was established by James and Kathleen Morrell in honor of their families. Awards are based on financial need and academic eligibility and may be renewed. Nominations for the scholarship are made by the Campus Ministry staff and the Director of the Campus Center.

**The Richard and Agnes Murray Scholarship** is awarded annually to students on the basis of academic achievement and financial need. The scholarship was established in 1993 by Associate Trustee, Richard J. Murray, President, R.J. Murray Co., Inc., in cooperation with Carrier Air Conditioning Co., in recognition of 60 years of their association. The award may be renewed.

**R.J. Murray and Family Scholarship** was established in 1997 by Associate Trustee, Richard J. Murray. The scholarship will be awarded to a student in good standing based on academic achievement and financial need. The award is renewable.

**The William P. Murray '48 Scholarship**, established by his sister, Jane I. Murray, and his brother, Joseph E. Murray '47, is awarded annually to an incoming freshman. This scholarship is in memory of Bill '48, a renowned attorney,

member of the bar of Washington, DC, New York and the US Supreme Court, decorated soldier, son of James and Hazel (Kilroy) Murray of Albany. Preference is given to Catholic students who are graduates of Christian Brothers Academy of the Capital Region. Awards are based on financial need and may be renewed.

**The James L. Nash '64 Fellowship** is awarded to a sophomore, junior, or senior student in good standing who has an interest in and commitment to providing community service for the betterment of individuals or organizations located in the Capital Region.

**New York City Endowed Scholarship Fund** endowment is used to provide scholarships for academically promising students from the five boroughs of the City of New York based on financial need.

**The Noteworthy Scholarship** has been established in memory of Thomas B. Constantino whose business successes were always attributed to his faith in God. The scholarship will be awarded based on academic merit, preference will be given to students who are majoring in the field of Business and taking elective courses in the Creative Arts.

**The George E. and Annabel G. O'Connor Memorial Scholarship**, established by the O'Connor family, is awarded annually to students from the Capital Region. Preference is given to students from Waterford and Cohoes, headquarters of Mohawk Paper Mills, Inc., which Mr. George O'Connor served as President and Chairman. Scholarship renewal is based on financial need and academic achievement.

**The Patrick "P.J." O'Donnell Scholarship** was established by his family, friends, classmates, and parish to perpetuate the memory of his courage, quest for knowledge, faith, and endearing personality. It is awarded annually with preference given to a student who demonstrates financial need and is an active member of St. Edward the Confessor Church, Clifton Park, N.Y. The award may be renewed on a yearly basis depending on academic achievement and contributions made to campus life.

**The Terry Pacheco '80 Memorial Scholarship** was established by James J. Treacy, Jr. '80 to honor his friend and classmate. First preference is given to students from Rockland County, New York. The scholarship is based on financial need.

**The Salvatore, Josephine and Melissa Papa Scholarship** will be awarded annually on the basis of financial need. The Scholarship is renewable based on good academic standing.

**The Perkinson Family Scholarship** was established by Mr. Gary Perkinson, class of 1959, to provide scholarship assistance to deserving students who show financial need. First preference is given to students from Catholic Central High School in Troy, NY.

**The Dr. William L. Pfeiffer Scholarship**, established and sponsored by the Albany Savings Bank, recognizes the deep personal commitment which

Dr. Pfeiffer has exhibited toward higher education, the banking and business communities, and politics, as well as regional, state, and national affairs. Two scholarships are awarded to upperclass students with an interest in business, banking or political science. The scholarship is based on financial need and academic eligibility. Preference is given to New York State residents and the scholarship may be renewed.

**The Bernard F. Picotte Scholarship** is awarded annually to upperclass students majoring in Business or Computer Science. Recipients must be residents of the Capital District with preference given to residents of Albany or Schenectady County. The scholarship recognizes the Picotte family's active commitment to higher education in the Capital District. Nominations for the scholarship are made by the Dean of the School of Business.

**The Lt. Col. Leo A. Polinsky '49 Memorial Scholarship**, established by his cousin, Mrs. Theresa M. Walton, is awarded to an entering freshman and a junior student in good academic standing with demonstrated need. The scholarship is renewable. Preference is given to students from Montgomery County.

**The M. Dean Potts Memorial Scholarship** was established in 1995 by the Golub Foundation of Price Chopper. This award is dedicated to the memory of Mr. Potts, who was a dedicated associate and served as Chief Financial Officer of the Golub Corporation. This award provides one scholarship annually to finance major in his or her junior or senior year of college. The student must be in good academic standing and demonstrate financial need.

**The Prahm "Starfish" Scholarship** has been established to honor the United States Veterans of the Vietnam War. The scholarship will be awarded to a student from Troy, New York, with preference to be given to a Lansingburgh High School graduate or Catholic Central High School graduate who is or has been a member of the Lansingburgh Boys and Girls Club. Financial need is a criterion.

**The Raila Family Scholarships**, established by John B. '56 and Mary E. Raila, is awarded annually to upperclass liberal arts majors in good academic standing who make significant contributions to campus life and activity. Preference will be given to Capital District area students who demonstrate financial need.

**The William R. Raub Memorial Scholarship Fund** was established by his family, many friends and colleagues. The scholarship honors the memory of Will '85, a partner of Cantor Fitzgerald and Company, who died in the World Trade Center disaster on September 11, 2001. The scholarship is based on academic ability and financial need. Preference will be given to highly motivated Business students with a demonstrated record of academic success who either majors or plans to major in Finance.

**The Andrew P. Ripp Scholarship** was established by his family, classmates, and friends to perpetuate the memory of his courage, faith, and his most endearing personality. It is awarded annually to an upperclass student

who has made significant contributions to campus life and activity, especially in the field of music. Preference is given to Capital Region students who demonstrate financial need.

**1st Lt. James E. Roach Scholarship** is awarded annually to a Siena student who reflects the College's ideals of academic achievement and citizenship. The scholarship was established by F. Thomas Roach and Patricia Roach Kellam in memory of their brother who was killed while faithfully serving his country in the U.S. Air Force. Financial need is a criterion.

**Gilbert O. Robert Memorial Scholarship** will provide an annual grant for tuition assistance to a School of Business student. The award is based on financial need.

**The John J. '42 and Ann D. Rose Memorial Scholarship** was established from the estate of John and Ann Rose. The scholarship is awarded annually to a student with demonstrated financial need from Columbia County or Warren County, both in the State of New York, who is enrolled in a program leading to a career in Education or Business Administration.

**The Ruth Katherine Rosemond Scholarship** is awarded annually to a student reflecting the high personal ideals of Mrs. Rosemond, the wife of Bob "Gramps" Rosemond, a long-time friend of the College. Incoming freshmen are given first priority. The scholarship, which may be renewed for students making satisfactory academic progress, is based upon financial need.

**The St. Francis Fraternity Scholarship** is awarded annually based on academic achievement and financial need. This scholarship is renewable.

**The W.H. St. Thomas Family Siena College Scholarship** was established in 1994 to honor the late William H. St. Thomas of Gloversville, the former owner and chairman of St. Thomas, Inc. of Gloversville. The scholarship is awarded annually to a full-time student from Fulton County, New York who is majoring in Business. Financial need is a criterion.

**The Gene and Mary Sarazen Scholarship** is awarded annually to students reflecting the high personal, athletic, and intellectual ideals of Dr. Sarazen. Consideration is given to candidates referred by individuals associated with the world of golf. Guidelines for academic eligibility are determined by the Admissions Committee; the initial awards are also based on need. Renewal depends on academic achievement and conduct.

**The Joseph E. Scafidi Memorial Scholarship**, established by his wife, Elizabeth Kelly Scafidi, is awarded to an entering or current student on the basis of financial need. Preference is given to a student who is enrolled in either the School of Business or School of Science and who is a graduate of one of the following high schools: LaSalle Institute, Troy, NY; Bishop Maginn, Albany, NY; Catholic Central High School, Troy, NY; South Colonie, Colonie, NY; Maple Hill, Castleton, NY; Shenendehowa, Clifton Park, NY; or Berne-Knox-Westerlo High School. The scholarship may be renewed for four undergraduate years.

**The Fr. Erwin H. Schweigardt Scholarship** was established through the generosity of Dr. Neva M. Mahoney to honor Fr. Schweigardt's service to the area. Preference is given to students residing in the Capital Region of New York State. Financial need is a criterion.

**The Richard J. Sheehy Scholarship** is awarded annually to a sophomore, junior, or senior in good academic standing. Preference is given to French, modern language or English majors, respectively, who, in the opinion of the faculty, show promise in their major fields. Candidates are recommended by the faculty of the Modern Language Department. The award is renewable.

**The Siena College Alumni Association Awards** are granted to entering freshmen who are sons or daughters of Siena alumni. These awards are based on academic ability, citizenship, and financial need. The scholarships have been named to honor the following: Bishop Edmund F. Gibbons, former Coach Dan Cunha, Fr. Brian F. Duffy, O.F.M., Fr. Noel A. Fitzpatrick, O.F.M., Patrick J. Leonard, Stan Levine, William J. Shields, the Honorable Erastus Corning II, Fr. Matthew T. Conlin, O.F.M., Fr. Benjamin Kuhn, O.F.M., Edward LaRow, Ph.D., William J. Kirsch, Robert Nolte, and Sr. Rosemary Sgroi, R.S.M. These scholarships are renewed based upon satisfactory academic progress. Freshmen interested in applying for a Siena College Alumni Scholarship should indicate their intention when making application for admission to the College. Selection is made by the Admissions Committee.

**The Siena College Excellence in Communications Scholarship** is awarded annually to upperclass students. The scholarship is based on financial need and academic eligibility. Preference is given to students who demonstrate or express an interest in writing, communications, and/or journalism. The scholarship may be renewed. Interested students must submit to the head of the English department an essay describing their qualifications.

**The Mae Bonfils Stanton Trust Scholarship** has been established to assist qualified students from Denver County, Denver, Colorado. Recipients will be designated as "Mae Bonfils Stanton Trust Scholars."

**The Frances Weir Strachan Student Athlete Scholarship** is awarded to students competing in intercollegiate athletics who achieve the highest grade point average for the individual academic year and are in need of financial support.

**The Marjorie K. Sullivan Scholarship** established by her husband, James A. Sullivan '41, is awarded annually to upperclass students in good academic standing who made significant contributions to campus life and activity. This scholarship is based on financial need and is renewable.

**The Anthony Tamburello Memorial Scholarship** was established by family and friends to honor the memory of his commitment to education, his family and community. The scholarship will be awarded to students who demonstrate financial need, who show strong academic performance and demonstrate the values of Franciscan service to others.

**The Father Henry J. Tansey, M.H.M., Memorial Scholarship** is awarded annually to a student reflecting Fr. Henry's deep commitment to community service and devotion to Christian ideals. Preference is given to transfer students and upperclass students. The scholarship is based on financial need.

**The Teamsters Local No. 294 and Eastern Contractors Association Scholarship** is awarded annually to members of the local union's construction division or to their spouses, sons, or daughters. First year and upperclass students attending either full-time or part-time may apply. There is a special application form, available through the union or the Financial Aid Office.

**The Tesiero Family Scholarship** honors the memory of John A. and Marcella C. Tesiero. The scholarship is awarded annually to a freshman and will be renewed based on academic performance and financial need. Preference is given to residents of the Capital Region and to sons and daughters of employees of Cranesville Block Company, Inc. and their subsidiaries.

**The George A. Ulrich '79 Memorial Scholarship** was established by James J. Treacy, Jr. '80 to honor his friend. First preference is given to soccer players. Financial need is a criterion.

**The Vassallo Family Siena College Scholarship** is awarded annually with preference given to students of Italian-American background from Bergen County, New Jersey who attend a catholic high school. In addition, the awardee shall have shown strong academic performance while also participating in extra-curricular and/or community activities. The award is made to a full time Siena Business major who demonstrates financial need.

**The Philip C. Vertucci Memorial Scholarship** is awarded annually to an incoming freshman majoring in Science or Education. The recipient must be a graduate of a high school in Fulton County, preferably Gloversville High School. Appropriate academic eligibility and selection of the recipient is determined by the Admissions Committee.

**Vianney F. Vormwald, O.F.M., Memorial Scholarship**, established by Christine and J. Patrick Barrett '59, recognizes Father Vianney's deep personal concern for the students he encountered during his 23 years of service as administrator and teacher at Siena. Scholarships are awarded to entering students who exhibit Father Vianney's high ideals. Scholarships are based on financial need and may be renewed.

**The James M. Walsh Memorial Scholarship** created by the Class of 1979 and the Walsh family is awarded annually to a junior and will be renewed for that student's senior year. Financial need is a criterion.

**The John Francis Walsh, III Memorial Scholarship**, established by his sister, is awarded annually to an incoming freshman. Preference is given to an economics major to provide the financial aid necessary to have a residential experience.

## State and Federal Aid Programs

Siena offers or coordinates the following types of State and Federal Financial Aid Programs:

### New York State Programs

- Aid for Part-Time Study (APTS)
- Child of Deceased Correction Officer Awards
- Child of Veteran Awards
- Higher Education Opportunity Program (HEOP)
- Memorial Scholarships for Children and Spouses of Deceased Police Officers and Firefighters
- Merit Scholarships for Academic Excellence
- State Aid to Native Americans
- Tuition Assistance Program (TAP)
- Regents Professional Opportunity Scholarships
- Vietnam Veterans/Persian Gulf Veterans Tuition Awards
- Federally Funded Scholarships Administered by New York State:
  - Robert C. Byrd Honors Scholarship Program
  - Paul Douglas Teacher Scholarships

*Note:* Rhode Island and Vermont also offer grants and scholarships to selected residents attending out-of-state institutions.

### Federal Programs

- Federal Family Education Loan Programs (FFELP):
  - Federal Stafford Loans (Subsidized and Unsubsidized)
  - Federal Parent Loans (PLUS)
- Federal Pell Grants
- Federal Supplemental Educational Opportunity Grants (FSEOG)
- Federal Perkins Loan Program
- Federal College Work-Study Program (FCWS)
- Reserve Officers Training Corps Scholarships (ROTC)
- United States Bureau of Indian Affairs Aid to Native Americans
- Veterans Administration (VA) Educational Benefits

All recipients of veterans educational benefits must have their attendance verified monthly by their professors. Day students should pick up and return their forms to the Registrar's Office, SH102. Evening students should pick up and return their forms to the Office of Continuing Education, SH213A. Failure to do so may jeopardize benefits. Further information regarding veterans benefits may be obtained by contacting the Registrar's Office.

Additional information regarding State and Federal Aid programs appears later in this Section.

## Criteria for Renewal of Financial Aid

Awards based on merit, without regard for need, such as the Presidential Scholarship, Franciscan Scholarship and Siena Humanities in Medicine Scholarship, are automatically renewed by the Financial Aid Office each year, provided the student earns a cumulative grade point average of at least 3.1. Athletic awards are renewed upon the recommendation of the Director of Athletics.

Siena and Franciscan Community Grants are awarded on the basis of demonstrated financial need as well as past academic performance or merit. Recipients of these grants may expect to receive renewal for four years, dependent upon filing the Free Application for Federal Student Aid (the FAFSA) each year by our deadline and demonstrating financial circumstances similar to that upon which the original award was based. Any special circumstances should be submitted in writing to the Office of Financial Aid.

To receive any Siena aid, a student must maintain full-time status (12 credit hours) each semester and achieve satisfactory academic progress as defined in this catalog. Courses that are being repeated may not be eligible in determining status for aid eligibility. Students considering repeating courses should speak with a financial aid administrator prior to registering for the course. Less than full-time students are eligible in some cases for Federal Stafford Loans, Federal Pell Grants, and/or NYS APTS (Awards for Part-Time Students). Limited federal funding may also be available through the Federal Perkins Loan program as well as Federal SEOG grants and Federal College Work-Study programs.

## Satisfactory Academic Progress

A student is in good academic standing if he or she is matriculated and is considered to be making progress toward a degree or certificate. The following grade indices shall be used as a basis for loss of good academic standing:

<b>Freshmen:</b>	below 1.50 after second semester
<b>Sophomores:</b>	below 1.60 after first semester below 1.70 after second semester
<b>Juniors:</b>	below 1.80 after first semester below 1.90 after second semester
<b>Seniors:</b>	below 1.95 after first semester below 2.00 after second semester

## Federal Aid

In addition to complying with the above standards of good academic standing, full-time students who are recipients of any federal aid (Pell, SEOG, CWS, PERKINS, STAFFORD, PLUS), must also complete their educational objective within a period of six years (adjusted for differences in enrollment

status; e.g. half-time) and must meet the standards of satisfactory progress outlined in the following chart:

Year	1	2	3	4	5	6						
Semester	1	2	3	4	5	6	7	8	9	10	11	12
Cumulative Index	1.3	1.5	1.6	1.7	1.8	1.9	1.95	2.0	2.0	2.0	2.0	2.0
Cumulative Credits Earned		15		30		45		70		95		120

A student who does not meet the above criteria due to mitigating circumstances may still be considered to be making satisfactory progress. Appeals of loss of aid must be made in writing by the student to the Financial Aid Office. The Director of Financial Aid makes the final determination of whether the appeal will be granted.

In regard to the treatment of course withdrawals, incomplete grades, repeated courses, pass/fail courses, refer to the appropriate section of the Catalog.

If a student changes his or her enrollment status, Siena will use an average of the appropriate maximum time frames to determine whether such a student has maintained satisfactory progress.

*Under certain conditions*, a student who is *not* enrolled in a degree program (non-matriculated) may receive a Stafford loan for a period not to exceed 12 months.

## New York State Aid

Recipients of New York State assistance must be in good academic standing and have declared an academic major prior to accumulating 60 credits. Students who received their first State award in September, 1981, or after must display “satisfactory academic progress” and demonstrate “pursuit of program.”

### Standards of Program Pursuit for State Awards

State regulations define “program pursuit” as receiving a passing or failing grade in a certain percentage of a full-time course load. The standards are as follows:

- In each semester of study in the first year for which an award is made, the student must receive a passing or failing grade in at least six credit hours (i.e., 50 percent of the minimum full-time load; namely, 12 hours).
- In each term of study in the second year for which an award is made, the student must receive a passing or failing grade in at least nine credit hours (i.e., 75 percent of the minimum full-time load).

- In each term of study in the third and each succeeding year for which an award is made, the student must receive a passing or failing grade in at least 12 credit hours (i.e., 100 percent of the minimum full-time load). Note that New York State has also imposed a minimum grade point average of at least 2.0 in order to be eligible for a fifth scholarship or TAP payment.

The State will accept as a passing or failing grade the grades “A” through “F” and any grade that indicated the student (1) attended the course for the entire semester and (2) completed all the assignments. The grade of “I” is acceptable only if it automatically changes to a standard passing or failing grade within a calendar month from the date of the final examination. The grades of “W” or “AU” do not constitute grades that may be used to meet the requirement of program pursuit.

**Standards of Satisfactory Academic Progress for State Awards**

In addition to the above standards of “program pursuit,” students generally must meet the standards of satisfactory academic progress outlined on the following chart. The progress of students with special circumstances, such as those who have transferred from another institution, have used their waiver (see below), or have received an award prior to September 1981, are monitored on an adjusted schedule.

										HEOP Students	
BEFORE BEING CERTIFIED FOR THIS PAYMENT OF STATE AID	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
A STUDENT MUST HAVE ACCRUED AT LEAST THIS MANY SEMESTER CREDIT HOURS	0	3	9	21	33	45	60	75	90	105	
WITH AT LEAST THIS CUMULATIVE GRADE POINT AVERAGE	0	1.00	1.20	1.30	2.0	2.0	2.0	2.0	2.0	2.0	

Education law requires that no undergraduate student shall be eligible for more than four academic years (8 semesters) of State awards or five academic years if the program of study normally requires five years. Higher Education Opportunity Program students are also eligible for up to five years of State aid. A fifth year of undergraduate tuition assistance will reduce a student’s eligibility for graduate support by one academic year.

## Waiver Procedures for State Aid

The above standards of “satisfactory academic progress” for State student financial aid awards are *absolute* except when *waived* in accordance with the following provisions. This waiver can be granted only once for the student’s undergraduate study. The request for a waiver must be submitted by the student in writing to the Financial Aid Office. Catastrophic illness, a serious accident, personal or family problems, or other extenuating circumstances may be grounds for a waiver. A waiver may be granted at the discretion of the Director of Financial Aid.

## Transfer Student Eligibility

Transfer students (and students readmitted after a period of absence from College) will be subject to procedures slightly different from those applied to students in continuing status. The Dean of the appropriate School will approve the acceptable number of transfer credits. The Director of Financial Aid is responsible for certifying financial aid and will determine the eligibility of the student for financial aid. State aid eligibility is based upon the number of payments already received or the number of credits accepted, whichever is to the student’s advantage. For federal and institutional aid, at the end of each semester the student’s progress will be reviewed in accordance with the college’s standards as outlined above. Contact the Office of Financial Aid for further information.

## Appealing the Withdrawal of Aid

Recipients of federal, New York State and college grants, loans and work-study must conform to these standards of good academic standing. If an aid recipient is judged not to be in good standing, aid for the next and all subsequent semesters will be withdrawn until the student is again judged to be progressing satisfactorily.

An appeal of any decision regarding progress and aid eligibility must be made in writing by the student to the Financial Aid Office. Catastrophic illness, a serious accident, personal or family problems, or other serious extenuating circumstances may be grounds for an appeal. The appeal *may* be granted at the discretion of the Director of Financial Aid. The College must certify and maintain documentation of the mitigating circumstances. This documentation will be in a form that does not violate confidentiality or compromise the rights of the student. It should be noted that a waiver is not an automatic right of a student. In the case of state aid, a waiver may be granted only once.

# State and Federal Aid Programs

Siena College offers or coordinates the following types of State and Federal Financial Aid Programs.

## NEW YORK STATE PROGRAMS Tuition Assistance Program (TAP)

**Application Procedures:** Applicants must apply annually. The application deadline for the 2002-2003 academic year is May 1, 2003; however, students are encouraged to file as early as possible. For academic year 2002-2003, students will be required to file the Free Application for Federal Student Aid (the FAFSA) to apply for TAP and payment of other State scholarships.

First time New York State TAP applicants will also be required to complete the New York State Express TAP Application (ETA). Students that have received NYS TAP in the 2001-2002 academic year may not be required to file an ETA. Contact New York State Higher Education Services Corporation at 888-NYSHESC (888-697-4372) to determine if you need to complete an ETA.

Before submitting the application, the applicant should review them with the high school counselor or college financial aid officer, especially if there are questions relating to completion of the application.

The Higher Education Services Corporation determines the applicant's eligibility and mails an award certificate directly to the applicant indicating the amount of the grant. A Change Form must be filed if you decide to attend a college other than the NYS college listed on your TAP application. The applicant presents the institutional copy of the certificate to the Financial Aid Office. Siena College *may* defer payment on the basis of receipt of the award certificate. Actual payment is received after the school certifies student eligibility.

**Selection of Recipients and Allocation of Awards:** Tuition Assistance Program (TAP) is an entitlement program. There is neither a qualifying examination nor a limited number of awards. The applicant must: (1) be a New York State resident and a U.S. citizen or permanent resident alien; (2) be enrolled full-time and matriculated in an approved New York State postsecondary institution or program; (3) not be in default on a Federal Family Education Loan or owe any refunds to federal programs; (4) be charged tuition in accordance with the minimum award, and (5) meet the following prior year income criteria, based upon NYS total taxable income (after exemptions and deductions):

(a) Dependent students and married or independent students with tax dependents: \$80,000 or less

Adjustments are made if more than one family member attends college full-time.

(b) Single independent students: \$10,000 or less.

Note that income is subject to verification by the NYS Department of Taxation and Finance.

To be considered financially independent for State programs an applicant must be:

- (1) 35 years of age or older on June 30 preceding the academic year; or
- (2) 22 years of age or older on June 30 preceding the academic year; and not:

- (a) resident for more than 6 consecutive weeks in the current, previous or subsequent calendar years, in any house, apartment or building owned or leased by parents,
  - (b) claimed as a dependent by parents on their federal or state income tax returns for the current or previous tax years,
  - (c) recipient of gifts, loans or other financial assistance in excess of \$750 from parents in the current, or previous, or subsequent calendar years, or
- (3) under 22 years of age on June 30, preceding the academic year and meeting all other requirements of (2) above, and in addition able to meet and document at least one of the following requirements:
- (a) both parents deceased, totally or permanently disabled or incompetent,
  - (b) receiving public assistance other than Aid to Families of Dependent Children (AFDC), food stamps, or unemployment insurance, or
  - (c) ward of a court,
  - (d) financially independent due to the involuntary dissolution of family, or
  - (e) a recipient of TAP as a financially independent student in the previous academic year.

Undergraduate students married on or before December 31, 2002 (2002-2003 year) and all graduate students are exempt from the requirements of provision (3) above in determination of financial independence.

Undergraduate students generally receive TAP awards for four years of study. Students enrolled in approved five-year programs, or in a State-sponsored opportunity program, may receive undergraduate awards for five years. Graduate students may receive awards for up to four years. No student (including opportunity students) may receive awards for more than a total of eight years of undergraduate and graduate study.

The amount of the TAP award is scaled according to type of school, level of study, tuition charge, and net taxable income. The maximum annual award is reduced according to family income. 2001-2002 awards range from \$275 to \$5,000 per year for undergraduates.

NOTE: For all recipients, a \$150 reduction in the annual award will be made after four semester payments (or the equivalent) have been received.

Responsibilities of Recipients: Recipients must be in good academic standing in accordance with Commissioner's Regulations and must not be in default on a loan guaranteed by the Higher Education Services Corporation. A statement of good academic standing which is established by each institution in accordance with Commissioner's Regulations is published in this catalogue. Under certain circumstances, defaulted borrowers can be reinstated for TAP eligibility by HESC.

Questions about NYS grants and loans may be directed to NYSHESC, 99 Washington Avenue, Albany, NY 12255 or by calling 1-888-NYSHESC. (888-697-4372)

### **Child of Deceased Correction Officer Awards**

A NYS program awarding \$450 per year for 4 years (5 years in approved programs) to undergraduate students whose parent died as a result of injuries sustained in the line of duty.

- Student must be a NYS resident attending a NYS college full time.
- Supporting documentation will be required to establish eligibility.

**How to apply:**

- To apply, complete a special Child of Deceased Correction Officer supplement to the TAP application, which can be obtained from your guidance counselor, or from the New York State Higher Education Services Corporation (NYSH-ESC), 99 Washington Avenue, Albany, NY 12255, (518-473-7087).
- Application deadline for 2002-2003 academic year is May 1, 2003.
- The supplement is necessary the first year only to establish eligibility.

**Regents Awards for Children of Deceased or Disabled Veterans  
(Child of Veteran Awards)**

**Application Procedures:** A special application, obtainable from the high school principal or counselor, must be filed with the New York State Higher Education Services Corporation (HESC), Albany, NY 12255. Documentary evidence to establish eligibility is required with the application.

**Selection of Recipients and Allocation of Awards:** The applicant must be (1) the child of a veteran who died, or who has a current disability of 50 percent or more, or who had such disability at the time of death, resulting from U.S. military service during one of the following periods:

April 16, 1917 — November 11, 1918  
December 7, 1941 — December 31, 1946  
June 27, 1950 — January 31, 1955  
October 1, 1961 — May 7, 1975

and, (2) a legal resident of New York State. Legal residence in New York State on the part of the parent is also required at the time of entry into military service, or, if the parent has died as the result of military service, at the time of death.

Regents awards to children of deceased or disabled veterans are independent of family income or tuition charge, and are in addition to such other grants or awards to which the applicant may be entitled; however, total state award per year cannot exceed tuition.

**Award Schedule:** The amount of the award is \$450 per year, for up to five years, depending on the normal length of the program of full-time study in a college or a hospital nursing school in New York State.

SOURCE: New York State Higher Education Services Corp.  
Albany, New York 12255

**Memorial Scholarships for Family of Deceased  
Police Officers and Firefighters**

- A NYS program for undergraduate study that provides additional financial aid to students whose parent or spouse died as a result of injuries sustained in the line of duty.
- Award amounts based on tuition and non-tuition cost of attendance at the college and certain other state and federal grants. Award amounts will not exceed the average cost of attendance at NYS public institutions.
- Must be a NYS resident attending a NYS college full time.
- Supporting documentation will be required to establish eligibility.

**How to apply:**

- To apply, complete a special Memorial Scholarship supplement to the TAP application, which can be obtained from your guidance counselor, **or** from the New York State Higher Education Services Corporation (NYSHESC), 99 Washington Avenue, Albany, NY 12255, (518-473-7087).
- Application deadline for 2002-2003 academic year is May 1, 2003.
- The supplement is necessary the first year only to establish eligibility.

**Aid for Part-Time Study (APTS)**

Aid for Part-Time Study (APTS) is for part-time undergraduate study. For the purposes of this program, part-time study is defined as being enrolled for 3 to 11 semester hours per semester. A college selects recipients from among eligible students and determines the amount of the award based upon a student's need and the amount of funding available at the institution. An award cannot exceed tuition charges. Siena students receive an average of \$500 in annual APTS grants.

**Application Procedures:** A special APTS application is required for a student to be considered for an award. The student must also provide the Financial Aid Office with copies of the appropriate New York State tax return. Siena also requires that you file a Free Application for Federal Student Aid (FAFSA). Forms are available in the Financial Aid Office and in the Continuing Education Office.

**Selection of Recipients:** The applicant must be (1) a New York State resident, (2) be working toward an undergraduate degree as part-time student, (3) be in good academic standing, (4) be either a United States citizen, permanent resident alien or refugee, (5) have not used up Tuition Assistance Program (TAP) or other New York State student financial aid eligibility for full-time study.

**Income Limits:** If a student was not claimed as a tax dependent, the student's New York State net taxable income (and a spouse's income) cannot exceed \$34,250. If a student was claimed as a tax dependent, or is able to claim a dependent of his or her own, other than a spouse, the family's New York State taxable income cannot exceed \$50,550.

For more information contact: Student Information  
NYSHESC  
Albany, N.Y. 12255  
1-888-NYSHESC

**State Aid to Native Americans**

**Application Procedures:** Application forms may be obtained from the Native American Education Unit, New York State Education Department, Albany, NY 12230. The completed application form should be forwarded by the applicant to the Native American Education Unit along with the following materials: (1) official transcript of high school record or photostat of General Equivalency Diploma; (2) personal letter, setting forth clearly and in detail educational plans and desires; (3) signatures of the parents of minor applicants, approving education plans; (4) official tribal certification form; and (5) copy of acceptance letter from college attending.

**Selection of Recipients and Allocation of Awards:** The applicant must be: (1) a member of one of the Native American tribes within New York State and a resident of New York State; (2) have graduated from an approved high school, or have earned the General Equivalency Diploma, or be enrolled in a program in an approved postsecondary institution leading to degree-credit status and the General Equivalency Diploma; and (3) enrolled in an approved postsecondary institution in New York State.

State Aid to Native Americans is an entitlement program. There is neither a qualifying examination nor a limited number of awards.

**Award Schedule:** The award is \$2,000 per year for a maximum of four years of full-time study (five years, where a fifth year is required for completion of degree requirements), a minimum of 12 credit hours per semester. Students registered for less than this number will be funded at approximately \$85 per credit hour. Remedial programs are not fundable.

**Responsibilities of Recipients:** Students are responsible for notifying the Native American Education Unit in writing of any change in student status or program or institutional enrollment. Students must also submit semester grades at the end of each semester, showing satisfactory progress toward completion of degree or certification requirements.

SOURCE: Native American Education Unit  
New York State Education Department  
Room 374 EBA  
Washington Avenue  
Albany, NY 12234  
(518) 474-0537

### **Vietnam Veterans Tuition Awards**

This program is to assist Vietnam Veterans enrolled in degree programs on either a full- or part-time basis.

Eligibility Requirements:

- Residency in New York State on the effective date of the law (April 20, 1984) or at the time of entry into service and resumption of residency by September 1, 1988.
- Service in the U.S. Armed Forces in Indochina between January 1, 1963 and May 7, 1975.
- Discharge under other than dishonorable conditions.
- Must apply for a TAP award and a Pell Grant if the student will enroll full time for any term.
- Must apply for a Pell Grant if the student will be enrolled only for part-time study.

Duration

- Full-time Study - Awards are available for up to 8 semesters for a 4-year program, or 10 semesters if a degree program is specifically approved as requiring 5 years. Recipients enrolled in an approved program of remedial study are considered to be enrolled in a program normally requiring 5 years.
- Part-time Study - Awards are available for eligible students taking 3 to 11 credit hours per semester, or the equivalent, in an approved undergraduate

degree program. Awards are available for 16 semesters (8 years), or 20 semesters (10 years) for programs specifically approved as requiring 5 years of full-time study. Recipients enrolled in an approved program of remedial study are considered to be enrolled in a program normally requiring 5 years.

- The aggregate of all awards received under the program cannot exceed \$10,000.

#### Amount

- Full-time awards are \$1,000 per semester or tuition, whichever is less.
- If the veteran also receives a TAP award, the combination of the two awards cannot exceed tuition.
- Part-time awards are \$500 per semester or tuition, whichever is less.

#### Application Procedures:

- If you have already established your eligibility (and have been assigned a VVTA eligibility number by HESC) do one of the following:
  1. If you plan to attend college for one or more terms on a **full-time** basis, complete the Free Application for Federal Student Aid (FAFSA) and the NYS TAP supplement available from NYSHESC or the Financial Aid Office.
  2. If you plan to attend college only on a **part-time** basis send a letter to NYSHESC, VVTA Program, 99 Washington Ave., Albany, NY 12255 outlining your educational plans by giving the college code, college name and the terms you will be attending as a part-time student.
- If you have **not yet established** your eligibility for a Vietnam Veteran Tuition Award call (518) 474-5642 or 1-800-NYSHESC or write to NYSHESC, VVTA Program, 99 Washington Ave., Albany, NY 12255 and request a Vietnam Veterans Tuition Award Supplement.

### Higher Education Opportunity Program (HEOP)

**Application Procedures:** Application is through the *independent* institution of higher education to which the applicant is applying.

**Selection of Recipients and Allocation of Awards:** The applicant must be: (1) a New York State resident; (2) a matriculated undergraduate student at an *independent college or university* in New York State; and (3) academically and economically disadvantaged according to guidelines approved by the Board of Regents and the Director of the Budget. Selection of eligible applicants for participation in HEOP is conducted by the institution and/or HEOP program at the institution.

**Award Schedule:** The amount of financial assistance and other support provided to HEOP participants is dependent on need as determined by the institution and the program, within the State guidelines.

SOURCE: Bureau of Higher Education Opportunity Programs  
New York State Education Department  
Albany, New York 12230

## **Vocational and Educational Services for Individuals with Disabilities (VESID)**

**Application Procedures:** For information concerning this program, contact Vocational and Educational Services for Individuals with Disabilities (VESID), 6 Tower Place, Executive Park, Albany, NY 12203, (518) 473-8097.

**Selection of Recipients and Allocation of Awards:** Any disabled person, with a substantial employment handicap, who can become employable within a reasonable period of time may be eligible. VESID serves those having any physical, emotional, or mental disability except blindness.

The legally blind are served by the Commission for the Blind and Visually Handicapped, State Department of Social Services, 40 North Pearl Street, Albany, NY 12243.

Eligible applicants may receive counseling, medical examinations, and other evaluation services, physical restoration services, and instruction and training including that given at institutions of post-secondary education.

Clients are asked to share the expense, based upon State standards, of some of the services provided, such as college or university expenses, to enable the client to obtain his/her vocational objective.

### **Regents Professional Opportunity Scholarships**

New York State annually offers Regents Professional Opportunity Scholarships of \$1,000 to \$5,000 per year, based on need, to undergraduates and graduate students pursuing careers in certain approved programs of study. In previous years, eligible programs of study have included accounting, architecture, chiropractic, dental hygiene, engineering, landscape architecture, law, nursing, occupational therapy, optometry, pharmacy, physical therapy, physician's assistant, podiatry, psychology, social work, speech language pathology/audiology and veterinary medicine. Recipients must attend an approved program in New York State on a full time basis, be a state resident and citizen or qualifying non-citizen of the United States. Those who are economically disadvantaged and who are members of a minority group that is historically underrepresented in the chosen profession are given priority. HEOP students are also given special consideration.

Special applications are available from the NYS Education Department, Bureau of College, School and Community Collaboration, Room 1071 EBA, Albany, NY 12234. Phone: (518) 486-1319. You must file the Free Application for Federal Student Aid (FAFSA) and the special state supplement to receive payment of these scholarships each year.

## **FEDERAL PROGRAMS**

### **Federal Direct Student Loan Program**

A loan available at certain colleges as an alternative to the Federal Stafford Loans and Federal Parent Loans with the exact same borrowing amounts, qualifying requirements and interest rates (see Federal Stafford Loans below). The only difference is that the Direct Loan will be processed by your college rather than your bank. The college will inform you about the application process. Siena College does not participate in the Direct Loan program.

### **Robert C. Byrd Honors Scholarship Program**

Expects to award \$1,500 per year for up to four years to high school seniors from each county in NYS. Eligibility is determined by a combination of high school grades and GED Scores or by SAT or ACT test scores and GED scores.

Applications are available in the fall from the guidance office. You must take the SAT or ACT test before the application deadline. The deadline for filing is March 1, 2001. For further information, contact: NYS Education Department, Room 1071 EBA, Albany, NY 12234 (518-486-1319).

### **Federal Family Education Loan Programs (FFELP) (Federal Stafford loans, Parent Loans for Undergraduate Students)**

#### **Federal Stafford Student Loan Program (Subsidized and Unsubsidized Loans)**

**Special Note:** The effective date of the information below is May 1998. Check with your high school guidance counselor or college financial aid office for updated information.

#### **Federal Subsidized Stafford Loans:**

- Eligibility for the federal interest subsidy on these loans is *based on financial need* as calculated from information you provide on the Free Application for Federal Student Aid (FAFSA). There is no income cutoff so long as need is demonstrated.
- Repayment begins six months after the student is no longer enrolled at least half time. Interest does not accrue to the student until this time; it is paid by the federal government.

#### **Federal Unsubsidized Stafford Loans:**

- Eligibility for these loans is *not based on financial need*; however, you must *first* establish your *ineligibility* for a Subsidized Stafford Loan to be eligible to apply for an Unsubsidized Stafford Loan by filing the Free Application for Federal Student Aid (the FAFSA).
- Payment of interest begins when the loan check is disbursed, but deferment of interest is available. Payment on principal begins six months after the student is no longer enrolled at least half time. There is no penalty for early repayment.
- The interest rate on both Subsidized and Unsubsidized Federal Stafford Loans is variable, with a 8.25% cap, effective with loans disbursed to *new* borrowers after July 1, 1994. The “origination” fee and insurance fee are deducted from the amount borrowed and was 3.0 percent as of July 1, 1999; one percent insurance fees are covered by NYSHESC.

**Application Procedures:** Students must file an annual Free Application for Financial Aid (the FAFSA) in order to be eligible for a Federal Stafford Loan. They will be notified of their eligibility for Federal Stafford Subsidized and/or Unsubsidized Loans on their Award Letter from the College. If a loan is NOT declined on the award letter, the College Financial Aid Office will electronically

submit the necessary data to the agency responsible for processing the loan application (e.g., New York Higher Education Services Corporation—NYSHESC—in New York State). For first time Stafford Loan borrowers, this preapproved and completed promissory note will be mailed to the student's permanent address by the loan agency. It is then the responsibility of the student to sign the promissory note and forward it to the lender of his or her choice. Students that have borrowed a Stafford Loan in the 2001-2002 academic year, will be mailed a Loan Disclosure Notice from your lender indicating the terms and conditions of your loan for the current academic year. The funds then will be either electronically submitted to the College or a paper check will be issued which the student must sign. Authorized loan funds are applied to student accounts upon receipt by the College.

The Financial Aid Office will conduct a counseling session (entrance interview) as required by the federal government. Funds may not be disbursed earlier than ten days before the start of the term.

**Selection of Recipients and Allocation of Awards:** To be eligible for a Federal Stafford Loan a student must be: (1) a U.S. citizen or permanent resident alien; and (2) enrolled in or admitted as at least a half-time student at an approved college, university or other postsecondary institution in any of the United States or in a foreign country, and (3) not be in default on any FFELP loan or owe a refund on a federal financial aid program.

**Loan Amounts:** Students enrolled in either degree-granting or vocational schools which are approved by the U.S. Department of Education may borrow up to the following loan limits:

Category of Borrower	Annual Loan Limit	Aggregate Loan Limit
Undergraduate	1st Year: \$2,625	\$23,000
	2nd Year: \$3,500	
	3rd, 4th, & 5th: \$5,500	

Graduate students may borrow up to \$8,500 subsidized and \$10,000 unsubsidized per year effective October 1993, for an aggregate of \$65,500 for all years of study.

Many deferments are available depending on your status at time of loan repayment and the type of loan. Check with your loan agency.

Deferments are *not* automatic. You should contact your lender as soon as possible when you seek deferment or forbearance (payment of interest only) on your loan. Repayment of all or part of a loan may be made in advance without penalty.

### Federal Parent Loans for Undergraduate Students (PLUS)

- A federal program for parents of dependent undergraduate students. Parents may borrow up to the cost of attendance, less other financial aid, each year for each student.
- Eligibility is **not** based on need.
- PLUS loans can be used to meet all or part of the calculated Family Contribution.
- For new borrowers, the interest rate is variable, with a 9.00% cap.

- Interest begins on the day the loan is disbursed. Payment on the interest and principal usually begins immediately. Parents may have up to 10 years to repay. If the borrower meets certain requirements, deferments may be available. Contact a bank or participating lender for additional information.
- Origination and insurance fees of 3.0 percent are deducted from the loan amount.

**Applications Procedures:** Notify the Office of Financial Aid of your intention to borrow a PLUS loan and the amount you wish to borrow. The College Financial Office will electronically submit the necessary data to New York State Higher Education Services Corporation and a preprinted Loan Application will be mailed to the borrower. It is then the responsibility of the borrower to sign the loan application and forward it to the lender of his or her choice. The funds will be either electronically submitted to the College or a paper check will be issued which the borrower must sign. Authorized loan funds are applied to student accounts upon receipt by the College.

### Federal Pell Grant Program

**Application Procedures:** Students must apply for Pell by filing the Free Application for Federal Student Aid (FAFSA).

The completed application should be submitted for processing according to the directions included on it. A Federal Student Aid Report will then be sent to the applicant. The amount of the applicant's award is determined by the financial aid officer at the post-secondary institution attended. Upon enrollment, funds are credited to the student's institutional account.

**Selection of Recipients and Allocation of Awards:** The Federal Pell Grant Program is an entitlement program. The applicant must be enrolled as an undergraduate student in an approved post-secondary institution and must need financial assistance to continue his/her education.

Financial need is determined by a formula applied to all applicants. It was developed by the U.S. Office of Education and is reviewed annually by Congress. Expected Family Contribution is calculated by this formula.

Federal Pell Grants are paid for up to six years as required to complete a **first** baccalaureate degree. Awards may be used for tuition, fees, books and living expenses.

**Award Schedule:** In 2002-2003, full-time awards range from \$400 to \$4,000 per year. The amount of the award will be affected by costs of attendance and enrollment status. The Pell award is not duplicative of State awards.

**Responsibilities of Recipients:** The student must continue to make satisfactory academic progress in the program in which he/she is enrolled. The student must not owe any refunds on a Federal Pell Grant or other awards paid, or be in default on repayment of any student loan.

## Federal Supplemental Educational Opportunity Grants (SEOG)

**Application Procedures:** Application must be through filing the Free Application for Federal Student Aid (FAFSA). The Financial Aid Office is responsible for awarding SEOG grants to those students demonstrating the lowest expected family contributions, with preference given to those who are also Federal Pell Grant recipients.

**Selection of Recipients and Allocation of Awards:** The applicant must show extraordinary financial need, determined by a federally approved needs analysis system.

**Award Schedule:** Award may range from \$100 to \$4,000 per year.

**Responsibilities of Recipients:** The student must continue to make satisfactory academic progress.

## Federal Perkins Loans

**Application Procedures:** Application must be through filing the Free Application for Federal Student Aid (FAFSA). The Financial Aid Office is responsible for determining who receives a Perkins Loan. Information on loan deferments and cancellation provisions for borrowers who go into certain fields of teaching or specified military duty, are available from the Office of Business Affairs, which administers repayment of Perkins Loans.

**Selection of Recipients and Allocation of Awards:** Loans are available to needy students enrolled at least half-time in approved postsecondary institutions.

**Award Schedule:** Undergraduate students may borrow up to \$3,000 per year for a total of no more than \$15,000 for undergraduate study. Graduate students may borrow up to \$4,000 per year.

**Responsibilities of Recipients:** Continued eligibility is dependent on the maintenance of satisfactory academic progress and demonstrated financial need. The current interest rate, payable during the repayment period, is five percent on the unpaid principal. Repayment begins nine months after graduation or leaving school, and may extend up to 10 years. Payment is not required for up to three years of active U.S. military service, or service in the Peace Corps, VISTA or similar volunteer service in a private non-profit organization, temporary total disability, service in an internship preceding a professional practice. An institution, under certain conditions, may extend the repayment period up to 10 additional years for low income individuals.

## Federal College Work-Study Program (FCWS)

**Application Procedures:** Application must be through filing the Free Application for Federal Student Aid (FAFSA). Eligibility is determined and work arrangements made by the Financial Aid Office.

**Selection of Recipients and Allocation of Awards:** The applicant must be matriculated at Siena on at least a half-time basis and must demonstrate financial need.

**Award Schedule:** The Financial Aid Office at Siena arranges jobs on campus, for up to 20 hours per week (8-10 average).

Factors considered by the Financial Aid Office in determining whether, and how many hours, the recipient may work under this program are: financial need; class schedule; academic progress.

Students earn minimum wage, which is currently \$5.40 per hour.

**Responsibilities of Recipients:** Satisfactory academic progress must be maintained. Work must be performed when classes are *not* in session. Signed time cards must be submitted to the Office of Business Affairs on a bi-weekly basis.

### **Reserve Officer Training Corps (ROTC)**

The Army, Navy and Air Force offer financial assistance to qualified students. The Army offers up to \$12,000 toward tuition, fees and books. The Navy and Air Force offer scholarships that may cover full tuition, plus fees and books. A monthly stipend may also be awarded. Students with Army ROTC scholarships fulfill the military component of their scholarship at Siena. Students with either a Navy or Air Force scholarship take their military science courses at Rensselaer Polytechnic Institute in Troy. As benefits and regulations differ from Army ROTC, contact the Rensselaer Polytechnic Institute, AFROTC Detachment 550, (518) 276-6236.

### **United States Bureau of Indian Affairs Aid to Native Americans Higher Education Assistance Program**

**Application Procedures:** Application forms may be obtained from the Bureau of Indian Affairs Office. An application is necessary for each year of study. An official needs analysis from the college Financial Aid Office is also required each year.

Each first-time applicant must obtain tribal enrollment certification from the Bureau agency which records enrollment for the tribe.

**Selection of Recipients and Allocation of Awards:** To be eligible, the applicant must (1) be at least one-fourth American Indian, Eskimo or Aleut; (2) be an enrolled member of a tribe, band or group recognized by the Bureau of Indian Affairs; (3) be enrolled in or accepted for enrollment in an approved college or university, pursuing at least a four-year degree; and (4) have financial need.

**Responsibilities of Recipients:** For grants to be awarded in successive years, the student must make satisfactory progress toward a degree, and show financial need. Depending on availability of funds, grants may also be made to graduate students and summer session students. Eligible married students may also receive living expenses for dependents.

United States Department of Interior  
Bureau of Indian Affairs  
New York Liaison Office  
Federal Building, Room 523  
100 South Clinton Street  
Syracuse, New York 13202

## Veterans Administration (VA) Education Benefits

### Educational Assistance

To apply, contact your local Veterans Administration Assistance Agency (under U.S. Government), or call tollfree 888-GIBILL1 (888-442-4551).

Certification of Veterans Administration forms regarding attendance at the College or general information regarding veterans benefits may be secured by calling, writing or visiting the Office of the Registrar, Siena College, 515 Loudon Road, Loudonville, New York 12211-1462.

### Institutional Refunds

Refunds of Institutional charges will be given in the following areas:

*Tuition:* Tuition will be refunded on a proportionate basis according to the following schedule:

#### FALL AND SPRING SEMESTERS

Two weeks or less	80%
Three weeks	60%
Four weeks	40%
Five weeks	20%
Over five weeks	No refund

*Room Rent:* If a resident student withdraws during a semester, he or she will be refunded in accordance with the terms specified in his/her housing contract.

*Meal Fee:* The College will refund dining fees on a pro-rated basis, upon the surrender of their meal card to the Assistant Dean of Students/Residence Director.

*Other Fees:* Other fees will not be refunded in whole or in part.

Students who receive financial aid from Siena College funds and terminate their studies before the end of a semester may be required to refund a portion of their Siena aid resulting from their termination. The amount of Siena College funds required to be refunded to the College will be calculated on a proportionate basis according to the tuition refund schedule.

### Return of Federal Refunds

Federal Title IV Fund recipients who terminate their studies before the end of a semester may be required to refund a portion of their aid resulting from their termination. Students should see a financial aid administrator before withdrawing to determine the effect on their current or future financial aid.

A student who finds it necessary to withdraw from all courses before the conclusion of the fall or spring semester or summer sessions must first obtain a withdrawal form available in the Office of the Registrar. After Day Session students have obtained the withdrawal form, they must consult with the appropriate school Dean. The withdrawal form must be signed by the Dean, and returned to the Office of the Registrar. After part-time students have obtained the withdrawal form, they must consult with the Director of Continuing and Professional Education. A resident student must also advise his or her residence hall director. The date of withdrawal will be the later of the students documented last date of attendance at an academically related activity or the date indicated by the student



Refunds and Repayments must be distributed in the following order:

1. Unsubsidized Federal Stafford Loans
2. Subsidized Federal Stafford Loans
3. Unsubsidized Federal Direct Stafford Loans
4. Subsidized Federal Direct Stafford Loans
5. Federal Perkins Loan
6. Federal PLUS Loan
7. Federal Direct PLUS Loans
8. Federal Pell Grants
9. Federal Supplemental Educational Opportunity Grants
10. Other grant or loan assistance authorized by Title IV of the HEA

The information in this catalog is accurate as of May 2002. Since program changes may occur, students should always check with the Financial Aid Office for updated information.



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 Gina Battista '94, B.S., *Assistant Director of Development*  
 Loretta Epstein '77, B.A., *Assistant Director of Development*  
 Deborah Lansing, B.A., *Assistant Director of Development/  
 Coordinator of Records and Research*

### **Alumni Relations**

Edward Smith, '59 B.A., *Director of Alumni Relations*  
 Nathan M. Maloney, '00, B.A., *Assistant Director of Alumni Relations*

## Full-Time Faculty

**Janet M. Alger**, *Prof. of Sociology*; B.S., Columbia U.; M.A., Ph.D., Yale U.

**Joseph G. Allegretti, Esq.**, *Hickey Prof. of Business and Prof. of Accounting and Business Law*; B.A., Colgate University; M.Div., Yale Divinity School; J.D., Harvard Law School

**M. Barbara Allen**, *Assoc. Prof. of History*; B.A., Salem College; M.A., U. of North Carolina at Chapel Hill; Ph.D., U. of Kentucky

**Carlos C. Amaya**, *Asst. Prof. of Biology*; B.A., Texas El Paso; M.S., Ph.D., Texas Arlington

**MAJ John C. Andonie**, *Asst. Prof. of Military Science*; B.S., U.S. Military Academy

**James Angstadt**, *Prof. of Biology*; B.S., Juniata College; Ph.D., U. of Wisconsin

**Bonni Perrott Baker**, *Prof. of Marketing and Management*; B.B.A., U. of Massachusetts; M.A., Ohio State U.

**Karl K. Barbir**, *Prof. of History*; B.A., M.A., American U. of Beirut; M.A., Ph.D., Princeton U.

**Betty A. Bachman**, *Assoc. Prof. of Psychology*; B.A., U. of Virginia; M.S., Villanova U.; Ph.D., U. of Delaware

**George F. Bazinet**, *Prof. of Biology*; B.A., St. Michael's College; M.S., St. John's U.; Ph.D., Hahnemann Medical College

**Silvia Benso**, *Assoc. Prof. of Philosophy*; Laurea, Universita di Torino, Italy; M.A., Ph.D., Pennsylvania State U.

**Steven Bloom**, *Prof. of Mathematics*; B.S., U. of Wisconsin; Ph.D., Washington U.

^ **Raymond D. Boisvert**, *Prof. of Philosophy*; B.A., Providence College; M.A., U. of Toronto; Ph.D., Emory U.

**James F. Booker**, *Assoc. Prof. of Economics*; B.A., Dartmouth College; M.S., Cornell U.; Ph.D., Colorado State U.

**Karen J. Boswell**, *Assoc. Prof. of Psychology*; B.A., M.A., Johns Hopkins U.; Ph.D., Vanderbilt U.

**Eric A. Breimer**, *Asst. Prof. of Computer Science*; B.S., Binghamton University; M.S., Ph.D., Rensselaer Polytechnic Institute

**Arthur D. Brenner**, *Assoc. Prof. of History*; B.A., U. of Pennsylvania; M.A., M.Phil., Ph.D., Columbia U.

**Gilbert M. Brookins**, *Assoc. Prof. of Marketing and Management*; B.S., M.S., The U. at Albany

**Patricia S. Brown**, *Prof. of Biology*; B.S., M.S., Ph.D., U. of Michigan

**Cheryl L. Buff**, *Asst. Prof. of Marketing and Management*; B.A., Siena College; M.B.A., Adelphi U.; Ph.D., Union College

^ **Thomas Bulger**, *Prof. of English*; B.A., U. of Notre Dame; M.A., The U. at Albany; Ph.D., U. of Rochester

**Timothy G. Burke '82**, *Assoc. Librarian, Coordinator of Audio Visual Service*; B.A., Siena College; M.L.S., SUNY - Buffalo

**John S. Burkey**, *Prof. of Philosophy*; B.A., Duquesne U.; M.A., Villanova U.; Ph.D., Duquesne U.

^ *Sabbatical leave, 2002-2003*

**Dmitry Burshteyn**, *Asst. Prof. of Psychology*; B.A., M.A., C.U.N.Y. Brooklyn College; M.Ph., Ph.D., C.U.N.Y. The Graduate School and University Center

**Patricia Cameron**, *Assoc. Prof. of Psychology*; B.A., Ph.D., The U. at Albany

**Robert B. Carmody '70**, *Assoc. Prof. of Accounting*; B.S., Russell Sage College; M.B.A., Siena College; C.P.A., State of New York

**Pamela Clements**, *Prof. of English*; B.A., SUNY - Fredonia; M.A., Ph.D., U. of Illinois

**Robert J. Colesante**, *Asst. Prof. of Education*; B.A., M.A., Ph.D., The U. at Albany

**Thomas E. Conway '81, O.F.M.**, *Asst. Prof. of Accounting*; B.B.A., Siena College; M.T.S., Washington Theological Union; Ph.D., U. of Maryland; C.P.A., State of New York, C.I.A.

**Thomas P. Coohill**, *Prof. of Physics*; B.S., University of Toronto; Ph.D., The Pennsylvania State University

**Melinda L. Costello**, *Assoc. Prof. of Marketing and Management*; B.A., SUNY at Cortland; M.S., Syracuse U.; Ph.D., Syracuse U.

**Catherine L. Crohan**, *Librarian*; B.A., Framingham State College; M.L.I.S., U. of Rhode Island; M.A., The U. at Albany

**Terence P. Curran**, *Prof. of Marketing and Management*; B.C.E., Manhattan College; M.P.A., Ph.D., The U. at Albany; P.E., State of New York

**Leonard M. Cutler**, *Prof. of Political Science*; B.A., The City College of New York; M.A., Ph.D., New School for Social Research

**James S. Dalton**, *Prof. of Religious Studies*; B.A., M.A., Marquette U.; M.A., Ph.D., U. of Chicago

**Lois K. Daly**, *Prof. of Religious Studies*; B.A., DePauw U.; M.A., Ph.D., U. of Chicago

**Julian A. Davies, O.F.M.**, *Prof. of Philosophy*; B.A., St. Bonaventure U.; M.A., Ph.D., Fordham U.

**Frederick DeCasperis '70**, *Assoc. Prof. of Marketing and Management*; B.S., Fordham U.; M.S., Siena College; Ed.D., U. of Sarasota

**Joshua B. Diamond**, *Assoc. Prof. of Physics*; B.A., U. of California, Berkeley; Ph.D., U. of Pennsylvania

**Michael B. Dick**, *Prof. of Religious Studies*; B.A., M.A., Catholic U.; S.T.B., S.T.L., Gregorian U.; Ph.D., Johns Hopkins U.

<sup>^</sup>**J. Gerard Dollar**, *Prof. of English*; B.A., Dartmouth College; Ph.D., Princeton U.

**Denis P. Donnelly**, *Prof. of Physics*; B.S., M.S., Ph.D., U. of Michigan

**Robert G. Drake**, *Visiting Instructor of History*; B.A., Franklin & Marshall College; M.A., The U. at Albany

**Russell J. Dubisch**, *Asst. Prof. of Physics*; B.A., Reed College; M.S., U. of Washington; Ph.D., U. of Pittsburgh

**Daniel Dwyer '74, O.F.M.**, *Asst. Prof. of History*; B.A., Siena College; M.A., College of St. Rose and Washington Theological Union; Ph.D., Tulane U.

<sup>^</sup> *Sabbatical leave, 2002-2003*

- Paul F. Dwyer '71, Jr., Esq.**, *Assoc. Prof. of Finance*; B.A., Siena College; J.D., New England School of Law
- Vera Eccarius-Kelly**, *Asst. Prof. of Political Science*; B.A., Macalester College; M.A., Tufts University; Ph.D., Tufts University
- Bruce W. Eelman**, *Asst. Prof. of History*; B.A., The College of New Jersey; M.A., Ph.D., U. of Maryland
- Mary Anne Egan '86**, *Asst. Prof. of Computer Science*; B.S., Siena College; M.S., Ph.D., Rensselaer Polytechnic Institute
- Peter C. Ellard**, *Visiting Asst. Prof. of Religious Studies*; B.A., M.A., Ph.D., Fordham University
- Nancy Burdick Elliott**, *Prof. of Biology*; B.S., The U. at Albany; Ph.D., SUNY College of Environmental Science and Forestry
- William E. Engelhardt**, *Asst. Prof. of Quantitative Business Analysis*; B.S., Clarkson College; M.S., Union College
- Christiane E. Farnan '93**, *Instructor of English*; B.A., Siena College; M.A., The College of St. Rose
- Steven A. Fesmire**, *Visiting Asst. Prof. of Philosophy*; B.A., Millsaps College; M.A., Ph.D., Southern Illinois U. - Carbondale
- Nancy Fitorre (M) '00**, *Visiting Instructor of Accounting*; B.S., Lehman College; M.B.A., Siena College
- Joseph G. Fitzgerald**, *Visiting Instructor of Marketing and Management*; B.S., U.S. Naval Academy; M.P.A., U. of Memphis
- Mary K. Fitzgerald-Hoyt '77**, *Prof. of English*; B.A., Siena College; M.A., Ph.D., U. of Connecticut
- Robin Y. Flatland**, *Asst. Prof. of Computer Science*; Ph.D., Rensselaer Polytechnic Institute
- Kate Langdon Forhan**, *Prof. of Political Science*; B.A., M.A., U. of California; Ph.D., Johns Hopkins U.
- Gary B. Franko '76**, *Asst. Prof. of Quantitative Business Analysis*; B.B.A., Siena College; M.B.A., The U. at Albany
- Douglas F. Fraser**, *Prof. of Biology*; B.S., U. of Michigan; M.S., Ph.D., U. of Maryland
- Richard J. Gaffney**, *Prof. of Philosophy*; A.B., St. Joseph's U.; M.A., Villanova U.; Ph.D., Boston College
- Margaret Garnsey**, *Asst. Prof. of Accounting*; B.S., Carnegie Mellon U.; M.S., Ph.D., The U. at Albany
- Jennifer Gillies**, *Prof. of Chemistry*; B.A., The College of St. Rose; M.S., Ph.D., Rensselaer Polytechnic Institute
- ^ **Cheryl J. Gowie**, *Prof. of Education*; B.A., Wellesley College; M.S., Ph.D., The U. at Albany
- ‡ **Leon Halpert**, *Prof. of Political Science and Asst. Dean of Liberal Arts*; B.A., City College of New York; Ph.D., U. of Michigan

^ *Sabbatical leave, 2002-2003*

‡ *Sabbatical leave, Spring 2003*

**Capistran J. Hanlon, O.F.M.**, *Ann Kiskis Prof. of Sociology*; B.A., M.A., St. Bonaventure U.; M.A., Ph.D., U. of Colorado

∞ **Maureen T. Hannah**, *Assoc. Prof. of Psychology*; B.A., U. of Arizona, Tucson; M.A., U. of Delaware; Ph.D., U. of Arizona, Tucson

**Margaret P. Hannay**, *Prof. of English*; B.A., Wheaton College; M.A., The College of St. Rose; Ph.D., The U. at Albany

**James C. Harrison**, *Prof. of History*; B.A., U. of Texas-Austin; M.A., Sam Houston State U.; Ph.D., U. of Nebraska-Lincoln

**John H. Hayden**, *Prof. of Biology*; B.A., Castleton State College; Ph.D., U. of Vermont

**Kenneth Helm**, *Assoc. Prof. of Biology*; B.S., M.S., U. of Arizona; Ph.D., U. of Wyoming

**L. Lee Helsby**, *Assoc. Prof. of Modern Languages*; B.A., Bethany College; M.A., West Virginia U.; Ph.D., The U. at Albany

**S. Johanna Horowitz**, *Asst. Prof. of Computer Science*; B.A., Queens College; M.A., Tennessee State U.; M.S., Union College

**Andrea W. Hotaling**, *Assoc. Prof. of Accounting*; B.S., M.S., The U. at Albany; C.P.A., State of New York

**Edward T. Howe**, *Prof. of Economics*; B.A., Merrimack College; M.P.A., M.A., Ph.D., The U. at Albany

**Susan E. Hurley**, *Prof. of Mathematics*; B.A., U. of Leicester (England); M.A., Ph.D., The U. at Albany

**William J. Kanalley**, *Librarian*; B.A., St. John Fisher College; M.S.L.S., Syracuse U. School of Library Science

**Joanne E. Kapp**, *Assoc. Prof. of Marketing and Management*; B.A., Russell Sage College; M.S., The College of Saint Rose; Ph.D., Rensselaer Polytechnic Institute

**Dewan Reza Karim**, *Visiting Instructor of Computer Science*; M.B.A., Michigan State University

**Emelie Kenney**, *Assoc. Prof. of Mathematics*; B.A., Skidmore College; M.A., Bryn Mawr College; M.A., Ph.D., SUNY - Buffalo

**Paul Konye**, *Asst. Prof. of Creative Arts*; Higher Natl. Dipl., The Polytechnic Ibadan; M.M., U. of Maine at Orono; Ph.D., U. of Kentucky

**Thomas J. Kopp**, *Assoc. Prof. of Finance*; B.S., SUNY - New Paltz; M.A., Ph.D., SUNY - Binghamton

**Jeanne Laiacona**, *Assoc. Prof. of Creative Arts*; B.A., Westfield College; M.A., D.A., The U. at Albany

**Edward J. LaRow '59**, *Prof. of Biology*; B.S., Siena College; M.S., Kansas State U.; Ph.D., Rutgers U.

**Timoth C. Lederman**, *Prof. of Computer Science*, B.A., M.S., U. of Virginia; Ph.D., U. of Stirling (Scotland)

**Naton Leslie**, *Assoc. Prof. of English*; B.A., Youngstown State U.; M.A., Ph.D., Ohio U.

**Matthew J. Lindstrom**, *Asst. Prof. of Political Science*; B.A., St. John's U.; Ph.D., Northern Arizona University

∞ *Academic leave of absence, Fall 2002*

∞ **Jeffrey W. Lippitt**, *Assoc. Prof. of Accounting*; B.S., Lehigh U; M.S., The U at Albany; Ph.D., Pennsylvania State U.

**Salvatore Lombardo**, *Asst. Prof. of Political Science*; B.A., M.P.A., Wayne State U.; Ph.D., Florida State U.

‡ **W. Merle Longwood**, *Prof. of Religious Studies*; B.S., South Dakota State U.; B.D., Luther Theological Seminary; M.A., M.Ph., Ph.D., Yale U.

**Douglas A. Lonnstrom (M) '66**, *Prof. of Quantitative Business Analysis*; B.A., Drew U.; M.B.A., Siena College; Ph.D., Rensselaer Polytechnic Institute

**Carol Luce**, *Asst. Prof. of Creative Arts*; B.S., Skidmore; M.F.A., The U. at Albany

**Gary Maciag, O.F.M.**, *Asst. Prof. of Creative Arts*; B.A., Massachusetts Institute of Technology; M.F.A., Catholic U. of America

**Kevin E. Mackin (M) '67, O.F.M.**, *Prof. of Religious Studies; President*; B.A., St. Bonaventure U.; M.A., Siena; S.T.B., S.T.L., M.A., S.T.D., Catholic U. of America

**Thomas R. Mahaffey**, *Assoc. Prof. of Marketing and Management*; B.S., Pennsylvania State U.; M.B.A., U. of Chicago

**Karen Ward Mahar**, *Asst. Prof. of History*; B.A., The George Washington U.; M.A., Columbia U.; Ph.D., U. of Southern California

**Mary Ellen Mallia '87**, *Visiting Instructor of Economics*; B.S., Siena College; M.A., The U. at Albany

**Carolyn Malloy-Madrid**, *Assoc. Prof. of Modern Languages*; B.A., M.A., U. of Connecticut-Storrs; Ph.D., U. of Wisconsin

**Sean P. Maloney**, *Assoc. Librarian*; B.A., The U. at Albany; M.A., George Mason U.; M.L.S., The U. at Albany

**Patricia L. Markley**, *Asst. Librarian*; B.A., Madison College; M.A., U. of Virginia; M.L.S., Indiana U.

**Joseph G. Marrone**, *Prof. of Psychology*; B.A., Herbert H. Lehman College; M.A., Ph.D., Fordham U.

**Duane A. Matcha**, *Assoc. Prof. of Sociology*; B.A., Minot State College; M.A., North Dakota State U.; Ph.D., Purdue U.

**James R. Matthews**, *Prof. of Computer Science and Mathematics*; B.S., Montclair State College; M.A., M.S., The U. at Albany

**Jennifer McErlean**, *Prof. of Philosophy*; B.A., M.A., Ph.D., U. of Rochester

**Edward J. McGlynn**, *Prof. of Sociology, Director of Peace Studies Program*; B.S., Rensselaer Polytechnic Institute; M.A., Ph.D., Cornell U.

**Donna D. McIntosh**, *Assoc. Prof. of Social Work*; B.S.W., Buffalo State College; M.S.W., U. of New York at Albany

**John J. McKenna**, *Prof. of Spanish*; B.A., Iona College; M.A., U. of Kansas; Ph.D., The U. at Albany

**Mary Walsh Meany**, *Prof. of Religious Studies*; B.A., Spalding College; M.A., Ph.D., Fordham U.

‡ *Sabbatical leave, Spring 2003*

∞ *Academic leave of absence, 2002-2003*

**Leonard J. Merrill**, *Prof. of Physics*; B.S., U. of Maine; M.S., Ph.D., Pennsylvania State U.

**Fareed Munir**, *Assoc. Prof. of Religious Studies*; B.A., U. of Pennsylvania; B.A., American U. of Cairo, Egypt; M.A., Ph.D., Temple U.

**Michael W. Murphy**, *Asst. Prof. of English*; B.A., The Catholic U. of America; M.A., Manhattan College; Ph.D., U. of Texas

**Paul T. Murray**, *Prof. of Sociology*, A.B., U. of Detroit; M.A., Ohio State U.; Ph.D., Florida State U.

**Joseph E. Myers**, *Assoc. Prof. of Spanish*; B.A., LaSalle College; M.A., U. of Kansas; Ph.D. candidate, The U. at Albany

**Robert Nartey**, *Assoc. Prof. of History*; B.A., U. of Ghana; M.A., U. of London; M.A., Northwestern U.; Ph.D., U. of Illinois at Chicago

**Daniel Nelson '72, O.F.M.**, *Assoc. Prof. of Psychology*; B.A., Siena College; M. Div., Christ the King Seminary; M.A., U. of Notre Dame; M.A., Ph.D., California School of Professional Psychology, San Diego

**James R. Nolan '75**, *Prof. of Quantitative Business Analysis and Computer Science*; B.S., Siena College; Certificate of Advanced Study in Planning and Policy Analysis, M.B.A., Ph.D., The U. at Albany

**Elaine R. Ognibene**, *Prof. of English*; B.A., Nazareth College; M.A., SUNY - Geneseo; Ph.D., Rensselaer Polytechnic Institute

**Richard T. Ognibene**, *Prof. of Education*; B.S., St. John Fischer College; M.A., Ed.D., U. of Rochester

**John C. O'Neill**, *Asst. Prof. of Quantitative Business Analysis*; B.A., M.A., SUNY at Potsdam; Ph.D., The U. at Albany

**Kenneth P. Paulli '82, O.F.M.**, *Asst. Prof. of Education*; B.S., Siena College; M.A., Washington Theological Union; Ed.D., Columbia University

**Ann Marie Popp**, *Visiting Instructor of Sociology*; B.A., The U. at Albany; M.A., Penn State U.

**Richard M. Proctor**, *Asst. Prof. of Finance*; B.S., Miami U. of Ohio; M.B.A., Ph.D., U. of South Florida

**Leonard J. Putnick**, *Prof. of Mathematics*; B.S., St. Joseph's College; M.S., U. of Delaware; Ph.D., Rensselaer Polytechnic Institute

**Karen S. Quaal**, *Assoc. Prof. of Chemistry*; B.S., Ph.D., The U. at Albany

#**Chitra Rajan**, *Assoc. Prof. of Finance; Vice President for Academic Affairs*; B.A., M.A., U. of Poona, India; M.A., U. of Ottawa; Ph.D., U. of Ottawa and Carleton U.

**Donald J. Raux**, *Asst. Prof. of Accounting*; B.S., M.S., Ph.D., The U. at Albany; C.P.A., State of New York

**Reginald J. Reddy, O.F.M.**, *Assoc. Prof. of Physics*; B.A., St. Bonaventure U.; Ph.D., U. of South Carolina

**Blaise F. Reinhart, O.F.M.**, *Prof. of Economics*; B.B.A., St. Bonaventure U.; M.A., Ph.D., The Catholic U. of America

**Linda L. Richardson**, *Prof. of Finance*; B.A., Connecticut College; M.S., Montana State U.; Ph.D., U. of Arkansas

†**Robert F. Rivas**, *Prof. of Social Work*; B.A., New Mexico Highlands U.; M.S.W., Arizona State U.

**Edwin Lee Rogers**, *Assoc. Prof. of Mathematics*; B.S., Fairmont State College; M.A., West Virginia U.; Ph.D., Rensselaer Polytechnic Institute

#**Joseph L. Rosetti '73**, *Prof. of Marketing and Management; Asst. Vice President for Academic Affairs*; B.S., Siena College; M.S., The U. at Albany; M.S., Rensselaer Polytechnic Institute

**Thomas H. Rousseau**, *Assoc. Prof. of Mathematics*; B.S., U.S. Military Academy; M.S., Ph.D., Rensselaer Polytechnic Institute

**Sennen San Fratello, O.F.M.**, *Assoc. Prof. of English*; B.A., M.A., St. Bonaventure U.

†**Paul C. Santilli**, *Prof. of Philosophy*; B.A., Georgetown U.; M.A., Ph.D., Boston College

**Chingyen Yang Sawatsky**, *Asst. Prof. of English*; B.A., Xiangtan University; M.A., Indiana State University; M.A., Seton Hall University; Ph.D., Indian University of Pennsylvania

**Charles F. Seifert**, *Assoc. Prof. of Marketing and Management*; B.S., U. of New York at Buffalo; M.B.A., Sage Graduate School; Ph.D., The U. of Albany

**Michael Sham**, *Assoc. Prof. of Classics*; B.A., St. Bonaventure U.; M.A., Ohio State U.; Ph.D., SUNY - Buffalo

†**Patrick J. Sheridan '66**, *Asst. Prof. of Finance*; A.B., Providence College; M.B.A., Siena College

**Richard L. Shirey**, *Assoc. Prof. of Economics*; B.A., St. Vincent College; M.A., Northern Illinois U.; Ph.D., The U. of Albany

**Paul J. Smith '61**, *Assoc. Prof. of Chemistry*; B.S., Siena College; Ph.D., Florida State U.

**Andrea Smith-Hunter**, *Asst. Prof. of Marketing and Management*; M.B.A., College of St. Rose; Ph.D., The U. of Albany

**Carla Sofka**, *Asst. Prof. of Social Work*; B.S., University of Illinois at Champaign-Urbana; M.S.W., Ph.D., Washington University, St. Louis

**Rachel Stein**, *Assoc. Prof. of English, Coordinator of Women and Multicultural Studies*; B.A., U. of North Carolina; M.A., Emory U.; Ph.D., Rutgers U.

**Jean M. Stern**, *Prof. of Political Science*; B.A., Texas Christian U.; M.A., U. of California at Berkeley; Ph.D., Syracuse U.

**Rachel E. Sterne-Marr**, *Assoc. Prof. of Biology*; B.S., UCLA; Ph.D., U. of California at Berkeley

**Leonard E. Stokes, III**, *Prof. of Accounting*; B.S., M.S., The U. at Albany; C.P.A., State of New York; Ph.D., Union College

**Diane Strock-Lynskey '76**, *Prof. of Social Work*; B.A., Siena College; M.S.W., Syracuse U.

† *Sabbatical leave, Fall 2002*

# *Administrative leave, 2002-2003*

**Thomas Swan**, *Asst. Prof. of Psychology*; B.S., Union College; Ph.D., Boston U.

**Dennis E. Tamburello '75, O.F.M.**, *Prof. of Religious Studies*; B.A., Siena College; M.A., Washington Theological Union; Ph.D., U. of Chicago

**Lydia C. Tarnavsky**, *Assoc. Prof. of Modern Languages*; B.A., M.A.T., Wayne State U.; M.A., Middlebury College; Ph.D., U. of Michigan

**Charles R. Trainor**, *Prof. of English*; B.A., Dartmouth College; M.A., Cambridge U.; Ph.D., Yale U.

**W. Scott Trees**, *Prof. of Economics*; B.A., Princeton U.; M.A., Ph.D., U. of Notre Dame

**Paul A. Trent**, *Prof. of Finance*; B.S., C.W. Post College; M.B.A., Long Island U.

**Patricia Trutty-Coolhill**, *Prof. of Art History*; B.A., University of Toronto; M.A., Ph.D., The Pennsylvania State University

**John R. Vallely**, *Librarian*; B.A., St. Bonaventure U.; M.A., M.L.S., The U. at Albany

**Scott L. Vandenberg**, *Assoc. Prof. of Computer Science*; B.A., Cornell U.; M.S., Ph.D., U. of Wisconsin-Madison

**John E. Van Hook, O.F.M.**, *Prof. of Philosophy*; B.A., M.A., St. Bonaventure U.; Ph.B., Ph.L., Pontificum Athenaeum Antonianum, (Rome); M.A., Johns Hopkins U.

**Michael R. Van Patten '71**, *Prof. of Accounting*; B.B.A., Siena College; M.S., The U. at Albany; C.P.A., State of New York

**Carol P. Venezia**, *Assoc. Prof. of Quantitative Business Analysis*; B.S., M.B.A., The U. at Albany

‡ **Ralph H. Ware**, *Assoc. Prof. of Education*; B.A., M.A., Ed.D., The U. at Albany

**Kenneth Williams**, *Visiting Instructor of Marketing and Management*; B.S., Clarkson; M.S., Clarkson

‡ **Lise D. Wilson**, *Assoc. Prof. of Biology*; B.S., U. of Lowell; Ph.D., U. of Virginia

**Robert J. Woll**, *Prof. of Psychology*; B.S., City College of New York; Ph.D., Rutgers U.

**Elizabeth Winter Wolpaw**, *Prof. of Chemistry*; B.A., Smith College; M.S.W., Case-Western Reserve U.; Ph.D., U. of Maryland

**Lawrence L. Woolbright**, *Prof. of Biology*; B.S., Presbyterian College; M.S., West Georgia College; Ph.D., The U. at Albany

**Margaret Woolbright**, *Prof. of English*; B.A., M.A., College of St. Rose; D.A., The U. at Albany

**Andrea H. Worthington**, *Prof. of Biology*; B.A., U. of Chicago; Ph.D., U. of Washington

**Virginia Yonkers**, *Visiting Instructor of Marketing and Management*; B.A., Stonehill College; Master of International Management, U. of Denver; M.A., School for International Training, Brattleboro, VT

**Won Z. Yoon**, *Prof. of History*; B.A., U. of Friends; M.A., Wichita State U.; Ph.D., New York U.

‡ *Sabbatical leave, Spring 2003*

**Peter S. Zaas**, *Prof. of Religious Studies*; A.B., Oberlin College; M.A., Ph.D., The U. of Chicago

†**Nina Zanetti**, *Assoc. Prof. of Biology*; B.S., Muhlenberg College; Ph.D., Syracuse U.

**Gregory J. Zoltowski**, *Prof. of Creative Arts*; B.F.A., Pratt Institute; M.F.A., Catholic U. of America; M.S., Iona College

## Part-Time Faculty

**Jim (Al) Adams (M) '99**, *Finance*. B.B.A., U. of Cincinnati; M.B.A., Siena College

**Suzanne M. Allegretti**, *Marketing and Management*. B.A., U. of Detroit/Mercy; M.Min., Creighton U.

**Roger D. Allen**, *Quantitative Business Analysis*. B.S., SUNY-Albany; M.S., SUNY-Albany; M.A., Rutgers U.

**Christopher Atchinson '97**, *Finance*. B.A., Siena College

**Robert A. Ball**, *Marketing and Management*. B.S., Clarkson; M.B.A., Clarkson

**Henry R. Bauer '80**, *Marketing and Management*. B.A., Siena College; J.D., Western New England College School of Law

**Christopher P. Baynes**, *Marketing and Management*. B.A., Colgate U.; M.A., Rutgers U.; J.D., Albany Law School of Union University

**Brian Belanger, O.F.M.**, *Modern Languages and Classics*. A.B., College of the Holy Cross; M.A., Middlebury College; M.A., Ph.D., Tulane University

**Thomas W. Bigelow**, *Marketing and Management*. B.S., M.S., San Jose State U.

**Michael Blau '88**, *Creative Arts*. B.S., Siena College; M.F.A., Syracuse U.

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## Human Rights Committee

This Committee functions under the "Siena College Human Rights Policy and Procedures" which are contained in *Siena Life*. This policy is intended to promote an environment that fosters respect for the dignity and worth of each individual in the Siena community. It is also intended to make a Siena community possible free of acts of discrimination, particularly acts of harassment, that stigmatize an individual on the basis of race, religion, ethnicity, national origin, gender, age, sexual orientation or disability. Its roles include the following:

- Listening to and advising members of the Siena community concerning human rights, discrimination and harassment.
- Mediating or providing mediation services.
- Forming and serving on human rights panels for the purpose of hearing and adjudicating harassment or discrimination cases under Siena's Human Rights Policy.

Any member of the Siena community whether student, clerical or administrative staff member, or faculty member is free to approach any member of the Human Rights Committee if he or she feels that he or she has been the object of harassment or discrimination under Siena's Human Rights Policy.

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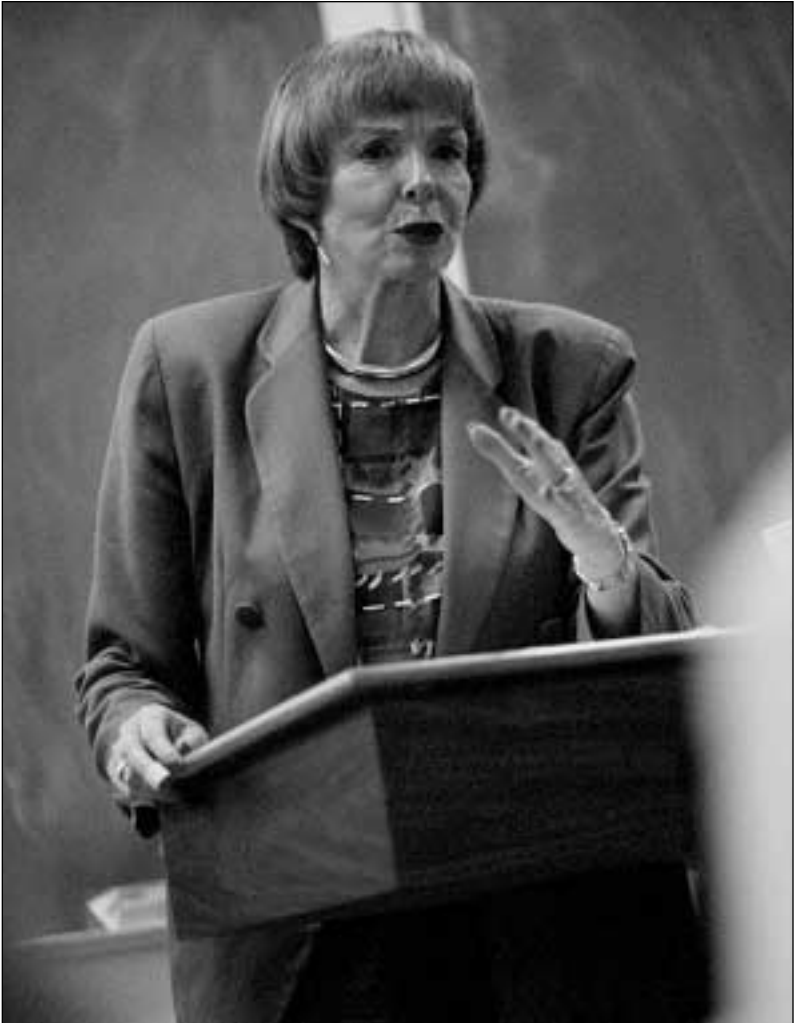
Tyshena Hunter, *Assistant Director of Residence Life*

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*Student*

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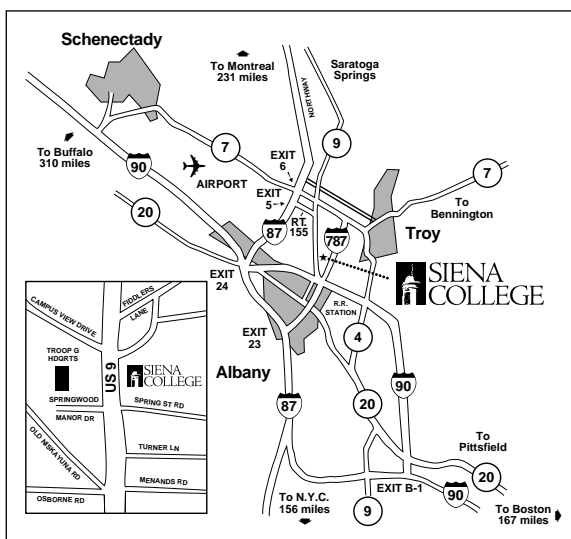
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# To Reach Siena



## From the North

From the Northway (I-87), take Exit 5 (NY 155). Turn left on NY 155 to US 9. Turn right on US 9 for two miles. Siena is on the left.

## From the South

From the New York Thruway, take Exit 23 (I-787). Follow I-787 North to I-90 West. Take Exit 6 (US 9 North to Loudonville, first exit off I-90). Follow US 9 North approximately two miles. Siena is on the right.

## From the East

From the Massachusetts Turnpike, take the New York Thruway to Exit B-1 (I-90 West). Follow I-90 to Exit 6 (US 9 North to Loudonville). Follow US 9 North approximately two miles. Siena is on the right.

## From the West

From the New York Thruway, take Exit 24 (Northway I-87). Follow Northway North to Exit 5 (NY 155).

Turn left on US 155 to US 9. Turn right on US 9 for two miles. Siena is on the left.

## Air

Albany County Airport, served by 8 airlines, is five miles from campus. Taxi service is available.

## Rail

Amtrak serves the Capital Region via its terminal in Rensselaer, eight miles from campus. Taxi service is available.

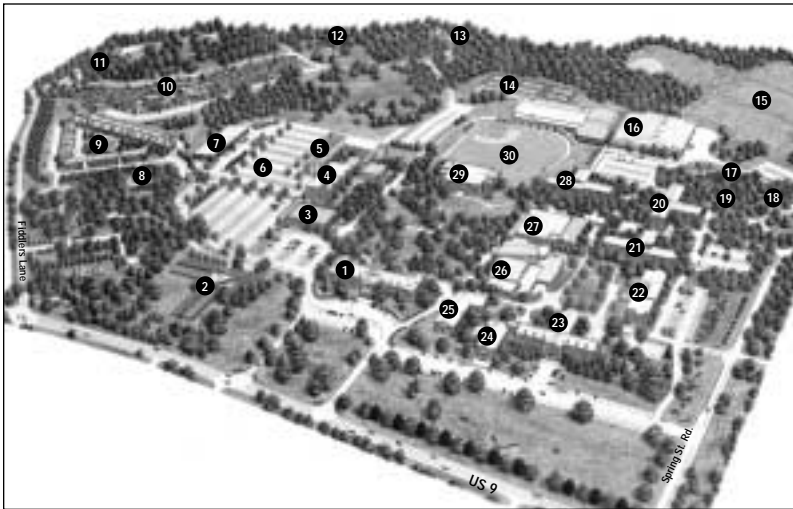
## Bus

Greyhound and Adirondack Trailways have terminals in downtown Albany. Taxi service is available.

## Admissions Office

Turn east off US 9 on to Spring Street. The fourth driveway on the left goes to McGuire Hall. The reception area is on the first floor.

# Key to Campus Buildings and Facilities



- |  |  |
|--|--|
| <b>1</b> Siena Hall  | <b>17</b> Fr. Benjamin Kuhn, O.F.M. Alumni House |
| <b>2</b> Friary  | <b>18</b> McGuire Hall                           |
| <b>3</b> Foy Hall  | <b>19</b> Carriage House                         |
| <b>4</b> Roger Bacon Hall                                    | <b>20</b> Hennepin Residence Hall                |
| <b>5</b> Morrell Science Center                              | <b>21</b> Ryan Residence Hall                    |
| <b>6</b> North Parking Lots (A&B)                            | <b>22</b> Padua Residence Hall                   |
| <b>7</b> William A. Hass Plant Operations Building           | <b>23</b> Hines Residence Hall                   |
| <b>8</b> Social Work House                                   | <b>24</b> St. Mary of the Angels Chapel          |
| <b>9</b> MacClosky Square Townhouses                         | <b>25</b> Kiernan Hall                           |
| <b>10</b> Cushing Village Townhouses                         | <b>26</b> Gene & Mary Sarazen Student Union      |
| <b>11</b> St. Francis House                                  | <b>27</b> Serra Hall                             |
| <b>12</b> Colbeth Hall                                       | <b>28</b> Plassman Residence Hall                |
| <b>13</b> Clare Center                                       | <b>29</b> J. Spencer & Patricia Standish Library |
| <b>14</b> Tennis Courts                                      | <b>30</b> Baseball Field                         |
| <b>15</b> Athletic Fields                                    |  |
| <b>16</b> Alumni Recreation Center/Marcelle Athletic Complex |  |

# Admissions Timetable

## Applications

Must be filed by March 1 of the candidate's senior year. Special program and transfer applicants refer to catalog. Applications can be obtained through our office or visit [www.siena.edu](http://www.siena.edu) and select Admissions.

## Admission Decisions

Regular freshman applicants will be notified by mid-March. Transfers for September will receive notification by May 15; transfers for January by December 15.

## School Transcripts

Official transcripts of all high school course work and college credit, or guidance counselor recommendation should be submitted before the appropriate application deadline.

## Entrance Examinations

Scholastic Aptitude (SAT) or American College Testing (ACT) examinations are required of all applicants and must be completed by January of the senior year.

## Interviews and Guided Campus Tours

Individual interviews and campus tours are strongly encouraged. Appointments are available by calling the Office of Admissions at (518) 783-2423 or 1-888-AT-SIENA. The Office of Admissions is open Monday-Friday from 8:30 a.m. to 4:30 p.m. and on selected Saturdays when the College is in session.

## Early Decision/Early Action

Applications must be filed by December 1 and candidates are notified prior to January 1. Campus visits are strongly recommended.

## Candidates' Reply Date

Accepted candidates are expected to reserve places in the freshman class by May 1.

## Financial Aid Applicants

The Free Application for Federal Student Aid (FAFSA) should be filed by February 1. Financial aid award packages will be announced in early April.