

UNDERGRADUATE STUDIES

SCHOOL OF EDUCATION

SCHOOL OF ENGINEERING AND BUSINESS ADMINISTRATION

SCHOOL OF FINE AND PERFORMING ARTS

COLLEGE OF LIBERAL ARTS AND SCIENCES

STATE UNIVERSITY OF NEW YORK
NEW PALTZ

The Academic Calendar

The Academic Calendar of the State University of New York at New Paltz is based on a fall and spring semester. Ordinarily, classes in the fall begin in late August and the semester concludes shortly before Christmas. The spring semester begins in late January and is concluded by late May.

Graduation ordinarily takes place on a Sunday one week prior to Memorial Day. There are two summer sessions: Summer Session I is four weeks in duration and starts in late May; Summer Session II is five weeks (for some courses, six weeks) in duration and starts in late June. New Paltz observes a minimum 14-week semester, based on 50-minute and 75-minute class hours. Significant Christian and Jewish holidays as well as important national holidays such as the Fourth of July, Martin Luther King, Jr. Day and Thanksgiving are observed.

Detailed academic calendars containing information about holidays, examination days, and academic deadlines such as course addition, course withdrawal, etc., will be found in the Schedule of Classes for each term.

Affirmative Action/Equal Opportunity

The State University of New York at New Paltz supports Affirmative Action and Equal Opportunity and does not discriminate on the basis of race, sex, age, color, national origin, handicap, ex-offender or marital status in education or employment in any of its policies and programs. The College is authorized under Federal law to enroll non-immigrant alien students.

All actions toward employees and students are based upon performance-related criteria. Attitudes and preferences of individuals which are personal in nature and unrelated to performance, such as private expressions of sexual orientation, provide no basis for judgments related to individuals.

Accreditation

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools and is approved as a degree-granting institution by the Trustees of the State University of New York and the Regents of New York State. The College is approved for Teacher Certification by the New York State Education Department. The College's academic programs are registered by the New York State Education Department, Office of Higher Education and the Professions. The College's music programs are accredited by the National Association of Schools of Music and the National Association for Music Therapy; its art programs are accredited by the National Association of Schools of Art and Design; its theatre programs received accreditation from the National Association of Schools of Theatre; its chemistry program is accredited by the American Chemical Society; the nursing program is accredited by the Board of Nursing of New York State Education Department and the National League of Nursing; the electrical engineering program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology; the computer science program is accredited by the Computer Sciences Accreditation Board; the communication disorders program is accredited by the American Speech-Language and Hearing Association.

Memberships

SUNY at New Paltz is a member of the American Council on Education, the Association of American Colleges, the American Association of State Colleges and Universities, the Association of Colleges and Universities of the State of New York, the American Assembly of Collegiate Schools of Business, and the Associated Colleges of the Mid-Hudson Area.

Student Retention

75.1% of the 736 full-time freshmen who entered in the fall of 1995 returned in fall 1996.

Of the 719 full-time freshmen who entered New Paltz in the fall of 1990 (Class of 1994), 52% received their degree within six years.

State University of New York

NEW PALTZ

Undergraduate Studies

1997- 1999

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State University of New York at New Paltz | 1

The State University of New York at New Paltz is an exciting blend of tradition and vision. At its educational core is the ever-present belief in the importance of a liberal arts education. This served as the guiding principle at the time the College was founded, in 1828, and continues to aid in the preparation of students for transition into the global community today. Equally important is the commitment to the growth of the student -- intellectually, culturally, and socially. Throughout its history, New Paltz has led the way in the development of significant innovations, not the least of which has been its dedication to providing an international focus to all areas of its curriculum.

SUNY New Paltz provides undergraduate and graduate degree programs in the humanities, social sciences, mathematics, the natural and physical sciences, and fine and performing arts. In addition, the College offers professional programs in business administration, computer science, nursing and electrical and computer engineering.

Between the founding of this school and the establishment of the present 216-acre campus of the State University of New York at New Paltz, many historic changes took place.

- 1828 School for teaching of classics founded
- 1833 The New Paltz Academy established
- 1885 State normal school established
- 1886 Normal school opened
- 1942 Normal school becomes State Teachers College at New Paltz; authorized to grant baccalaureate degree
- 1947 Graduate courses leading to master's degree introduced
- 1948 State University of New York created by legislative action; The College at New Paltz joins 30 other institutions of higher learning
- 1951 New Paltz adds art education degree to its programs
- 1959 College's name changed to College of Education

- 1960 Authorization for liberal arts program leading to Bachelor of Arts degree granted
- 1961 College renamed State University of New York College of Arts and Science New Paltz
- 1994 Campus renamed State University of New York at New Paltz

Today, the State University of New York at New Paltz has many more programs, facilities, and students than the founders of the classics school could have foreseen in 1828. What has not changed in the course of the history of higher education at the State University of New York at New Paltz is a strong commitment to the principle of excellence in teaching and learning.

The Community

Located in the 300 year-old village of New Paltz, the contemporary buildings of the landscaped campus are a fitting contrast to the historic structures of the community and of the farmlands and vineyards beyond. The nearby Shawangunk Mountains and the magnificent Catskill Mountain range provide a natural vista which many believe is unsurpassed in the Northeast.

In addition to its picturesque setting, the College's location midway between Albany and New York City not only offers readily available travel accessibility, but, more important, affords students the opportunity to utilize both urban and rural resources as they pursue their academic work.

New Paltz is located 65 miles south of Albany and 75 miles north of New York City. Regular bus service links New Paltz with New York City and many other points in New York. Passenger rail service is available in Poughkeepsie. Stewart Airport in nearby Newburgh serves the region with scheduled service to New York City, Washington, D.C., and other major cities.

The Faculty

The State University of New York at New Paltz has a distinguished faculty consisting of approximately 265 full- and 290 part-time members. Eighty-five percent of the full-time faculty hold the doctorate or appropriate terminal degrees.

In addition to their outstanding academic and professional credentials, the faculty are distinguished by a devotion to excellence in teaching.

Distinguished Professor
Arthur Cash
University Professor
Vladimir Feltsman
Distinguished Teaching Professor
Gerald Sorin

The following faculty have received the State University's Chancellor's Award for Excellence in Teaching:

Salvatore Anastasio, 1980; Lee Bell, 1991; Mary Boyle, 1990; Peter Brown, 1993; Alan Chartock, 1974; Harold Jacobs, 1975; Loyd Lee, 1992; Carole Levin, 1990; Sarah Ann Lovett, 1989; David Morse, 1974; Vanderlyn Pine, 1975; Hadi Salavitabar, 1991; H.P. Sankappanavar, 1989; Nancy Schniedewind, 1978; and Donald Walker, 1973. Adjunct faculty: Paul Brown, 1973. Emeriti faculty: Peter Alexander, 1975; David Fractenberg, 1978; Betty McKnight, 1974; Susan Poretz, 1976.

The Chancellor's Award for Excellence in Professional Service was given to Rosemarie McBride in 1978; William Connors in 1991; and Neil Trager in 1995.

The Chancellor's Award for Excellence in Librarianship was given to Chui-chun Lee, 1989; Corinne Nyquist, 1986; and Emerita Jean Sauer, 1990.

The Campus

Sojourner Truth Library
257-3700

Librarians:
Gerlinde Barley, M.L.S., SUNY/Albany
Lucille Brown, M.L.S., Pratt

William E. Connors, M.A.L.S., Michigan
Chui-chun Lee, M.S.L.S., Syracuse
(Director of Library)

Corinne Nyquist, M.A.L.S., Minnesota
Shirley C. Tung, M.L.S., Columbia
Michael Zackheim, M.L.S.,
SUNY/Geneseo

Associate Librarians:

Nancy Nielson, M.L.S., Long Island
Marjorie Young, M.L.S., Michigan

Senior Assistant Librarians:

Wilma Schmidt, M.L.S., SUNY/Albany
Frances Seaholm, M.A.L.S., Minnesota

Assistant Librarian:

Kathleen Gundrum, M.L.S.,
SUNY/Albany
Barbara Petruzzelli, M.L.S., Syracuse

The College Library is named in honor of Sojourner Truth, an ex-slave from New Paltz whose excellent speaking ability and militancy on behalf of freedom made her one of the outstanding figures of the Civil War era.

The Library supports the College's educational programs with a collection of more than 420,000 books, 1,300 periodicals and 950,000 micro editions. Specialized periodical indexes and abstract services, encyclopedias, dictionaries and other basic research tools are in the Reference Department. The Library is an official partial depository of United States Government publications; it is also a full New York State document depository. It subscribes to a wide range of magazines and newspapers.

The Library is committed to provide modern information services to its users. Its online catalog -- a Dynix system -- is reachable from both on- and off-campus locations. Online access to bibliographic and information research services is provided via CARL, UnCover, FirstSearch, and WALDO, on the Internet. Other electronic tools include a CD-ROM, a local area network and a WWW homepage. User-initiated, full-text document delivery is available via the WALDO System.

The Library offers a strong program of instruction in the use of research sources, emphasizing course-related sessions in specific disciplines. Librarians are available at the Information Desk to assist users during most hours the Library is open. Individual consultation is available by appointment. Detailed information on the use of the Library appears in a series of bulletins.

The Library building, a three-story structure at the center of the campus

seats more than 800 persons at tables, individual carrels, and study rooms where students may use their own laptop computers or share library-supplied typewriters. Photocopiers, microform printers, and special software and equipment for visually impaired and learning disabled persons are provided. The Library is open 87.5 hours per week; hours are extended during mid-term and end-of-semester examination periods.

Computer Services Center
257-3130

The Computer Services Center provides computing and network resources and support for the campus. A variety of resources are available including networked public PC labs, Unix host systems for e-mail and programming, department based facilities providing PCs, Macintoshes or Sun workstations, and an IBM mainframe system.

The primary student resources are the public PC labs, which are almost entirely Windows/Pentium based systems, and a Unix server for e-mail. Through the campus network and our suite of servers, we provide access to a full complement of DOS and Windows based software as well as access to our host systems and directly to the Internet. Supplementing the PC labs are two Macintosh labs, two Unix workstation labs (used primarily by Electrical Engineering and Computer Science), a computer controlled experimental lab in Physics, and PC based labs in Business, Psychology, Education, and Chemistry. We have recently added our first large lab in the residence halls, and plan to be adding smaller clusters in each building over the next year.

The College's network facilities are robust and growing. The campus is interconnected via fiber optic cabling and we are in the process of migrating the inter-building connections to new, higher speed technologies. The e-mail server was recently upgraded to a multi processor system. It provides on- and off-campus e-mail and 'chat' capabilities, text-based access to the web, and the usual complement of other Internet tools (network news, FTP, etc.). It also provides web servers for department, faculty or student personal home pages as well as supporting course-based discussion groups. Access from off-campus or from residence hall rooms is via our modem pools. Connections can be

either simple 'telnet' sessions for e-mail, or 'PPP' network connections providing full graphical Internet access from personal PCs.

New Paltz has been continuously improving its academic computing resources in an effort to keep pace with the growing demand for resources. The goal is to make computing generally available to everyone on campus. To this end, the College has ongoing programs to upgrade its publicly available hardware and software, to continue to improve its network infrastructure and dial-in capacity. Our on-going mission is to not only expand our resources, but to improve the level of service we provide to the many students who use our facilities.

Center for Instructional Resources
257-3630

The Center for Instructional Resources (CIR) is located in the lower level of the Lecture Center building. The Center maintains, operates and distributes the audiovisual equipment and facilities which are used to support and enrich the instructional program of the State University of New York at New Paltz.

CIR's professional staff develop and assist faculty with the creation of original video, computer, and other media productions designed to supplement traditional classroom instruction through the use of leading-edge teaching and information technology.

A reference collection listing the current media holdings available from commercial distributors and publishers, as well as from other academic institutions, is maintained by the Center. The Center also advises and assists academic departments with regard to renting, borrowing or purchasing any such mediated instructional materials.

Curriculum Materials Center
257-2808

The Curriculum Materials Center, located in the Old Main Building, has been established as a means of helping students in professional education to become familiar with options open to them in carrying out teaching, supervisory, and administrative responsibilities. A collection of both print and non-print materials for

teaching is maintained. The resources of the Curriculum Materials Center include New York State curriculum guides, Educational Standards, textbook series, and children's literature.

Art Gallery 257-3845

With a schedule of approximately eight exhibitions per year, the College Art Gallery provides direct support to the School of Fine and Performing Arts and serves as a major cultural resource for the campus and surrounding community. In conjunction with the exhibition program, the Gallery sponsors and produces publications, lectures, gallery talks, and other interpretive programs. In addition, annual faculty and student exhibitions comprise a regular portion of the Gallery program including, at the end of each semester, a series of week-long thesis exhibitions designed and installed by graduating art students as part of the requirements for the B.F.A. and M.F.A. degrees.

The College Art Gallery maintains the College's permanent art collection of more than 3,000 objects. The collection is broad-based, with fine examples of 20th-century American prints and paintings, European prints, historical and contemporary photographs and metals, Japanese woodblock prints, Asian, African, Oceanic, and Pre-Columbian works of art, among others. Portions of the collection are exhibited in the gallery on a regular basis, and there is ready access to the collection for study purposes. Planning is currently underway to construct new galleries to exhibit selections from the permanent collection on a continuing basis. The construction of the new facilities is scheduled to be completed in the fall of 1998.

Theatres

Four theatres host a wide variety of plays, dance performances, concerts and lectures throughout the year.

McKenna Theatre, a 374-seat proscenium theatre, and Parker Theatre, a thrust stage theatre with 194 seats, house productions by the department of Theatre Arts as well as music and dance concerts. Julien J. Studley Theatre, with 700 seats, is used by the Department of Music for concerts and community groups for special events. The Nadia and Max

Shepard Recital Hall, located in College Hall, seats 125 and is home to chamber music concerts and special workshops.

More than 100 performances are presented yearly in these theatres, including an extensive schedule of music and theatre events during the summer session.

Speech and Hearing Center 257-3600

The New Paltz Speech and Hearing Center typically serves about 1,000 clients per year, providing full-range diagnostic and therapy services in both Speech-Language Pathology and Audiology. Audiology and Speech-Language Pathology services are coordinated by full-time clinically certified supervisors and support staff. The Speech and Hearing Center, located in the Humanities Building, contains seven therapy rooms with adjoining observation rooms, three hearing evaluation rooms, separate resource rooms for speech and hearing, three faculty offices, and numerous soundproofed workspaces to be used by up-do-date screening and diagnostic instruments, and therapy materials. Speech-language therapy applications are supported by several microcomputer-based speech-language therapy systems. Computers are also available for report writing. Audiological testing equipment includes diagnostic audiometers, middle ear analyzers, a real-ear measurement system, an auditory evoked potential analyzer, an electronystagmography unit, and research capabilities in otoacoustic emissions. Audiological services include a complete hearing aid dispensing office and assistive device/hearing protection counseling.

New Paltz Alumni Association 257-3230

The SUNY New Paltz Alumni Association is a private, not-for-profit membership organization established to enable New Paltz graduates to maintain a personal and purposeful involvement in the life of their Alma Mater. The main purposes of the Association are:

- to foster the interest of the campus and represent it to its best advantage
- to promote the welfare and comradeship of alumni

- to provide scholarships for worthy students
- to maintain an effective line of communication with alumni

Privileges of active membership, which are determined by donating at a specified level to the Annual Fund, include the right to vote at all meetings of the Alumni Association, to receive all publications of the Association and the Office of Alumni Relations, and notices of all Annual Meetings of the Association. Members are also entitled to the following benefits:

Ashokan Field Campus discounts
Campus Bookstore discounts (10% off, except on textbooks)
Career Advising and Fieldwork Center assistance
Campus events discounts
Athletic facilities usage
Graduate School testing
The Buyer's Edge DISCOUNT RETAIL PROGRAM
Insurance Programs
Locating Lost Alumni
Reunions
Sojourner Truth Library privileges
Yearbooks (if available)

For additional information contact: David Kayajan, Director of Alumni Affairs, Hopfer Alumni Center, 75 S. Manheim Blvd. Suite 9, State University of New York at New Paltz, New Paltz, NY 12561-2443

Student Life

The State University of New York at New Paltz is a blend of contrasts which make student life a varied, challenging, and enriching experience.

The campus is mid-way between New York City and Albany, and close to the theatres, concert halls, museums, shopping centers, and historic sites which these cities offer. It is located in a region of technological growth. The campus community has a small college-town atmosphere set in the heart of one of the most beautiful rural areas in the East. Recreational rock climbing, cross-country and downhill skiing areas, rich farmlands, vineyards and apple orchards offer scenic beauty and a bountiful harvest for all to enjoy.

The State University of New York at New Paltz is a unit of one of the largest state university systems in the world. It is a relatively small campus where students are able to receive individualized attention from faculty members.

The Division of Student Affairs provides staff and services to help students organize their academic and social lives in ways that foster independence and intellectual and personal growth. By providing opportunities for campus and community involvement, we encourage the development of leadership skills and personal ethics while enhancing our students' appreciation for the global community within and outside of New Paltz.

Campus Regulations

All organizations are subject to regulations, and SUNY at New Paltz is no exception. All members of the campus community – faculty, staff, students, guests, and visitors – are governed by Campus Regulations which include student rights and responsibilities, regulations governing general conduct, rules on public order, and a judicial procedure relating to the regulations. The Campus Regulations are published in a separate handbook and copies are available in the Office of the Vice President for Student Affairs and in all residence halls.

Campus Police Department

The Campus Police Department is a professional law enforcement operation available 24 hours per day year round. Campus Police officers work closely with faculty, staff and students to preserve a secure environment conducive to an optimum academic experience. Police officers respond to breaches of peace, as well as any aspect of criminal behavior, and they are empowered to make arrests when necessary.

The department maintains an aggressive crime prevention and safety awareness program to assist students in providing for their personal safety and the security of their belongings.

Representatives from the Campus Police Department are available to meet and work cooperatively with groups of students, faculty, and staff to discuss issues of public safety and develop plans for community service programs.

All students bringing a car to campus must have a valid permit located on their rear window. Permits may be purchased at the Office of Student Accounts located on the second floor of the Haggerty Administration Building. All visitors must stop by the Campus Police Department to pick up a visitor's parking permit. Overnight visitors must part in lot 32.

Student Association

The Student Association (SA) is the students' representative government on campus. It is organized into four bodies (Executive Board, Student Senate, Council of Organizations, Judicial Board) which work together to represent students and to make decisions concerning the expenditure of the activity fee used to support programs and services throughout the year.

The Executive Board, which serves as the primary administrative branch of the SA, includes the President, Executive Vice President, Vice President for Finance, Vice President for Programming, and the Vice President for Student Affairs and Governance.

The Executive Board is elected each April by the general student population. These positions offer students the opportunity to run a large organization, learn how to administer budgets, work with a diverse group of people and develop policies which directly affect the student body which they serve.

The Student Senate is the legislative branch of the Student Association and is comprised of one representative from each residence hall, 11 off-campus senators, five class officers (one from each undergraduate class and one from the graduate class) and four at-large representatives. Throughout the year, the Senate appoints students to university committees, approves the Student Association budget, debates issues which affect students, amends the SA Constitution and acts as a forum for student concerns.

The Judicial Board is comprised of justices nominated by the Association President and appointed by the Student Senate. The Judiciary interprets and rules on questions of constitutionality and adjudicates alleged constitutional infractions. The justices may serve as student representatives to the College judicial system as defined by College policy.

The Council of Organizations is the representative body of all recognized student clubs and organizations. The Council exists to support the individual efforts of each organization, officially recognize new and existing organizations and help coordinate student activities. Students have formed many organizations for social, cultural, and recreational purposes. In addition, there are academic and professional clubs, language organizations and groups which focus on a particular issue. In 1996-97, there were more than 100 student organizations.

Services provided to the campus which are supported by the Student Association include the publication of three newspapers -- The Oracle, Fahari, and Hermanos Latinos; operation of campus FM and AM radio stations, WNPC TV, and a full-service graphics and publication operation.

The Student Association also supports a number of media outlets. These include both print and electronic media. Print media includes *The Oracle* (a weekly newspaper) and the *Fahari* and *Hermanos Latinos*. The latter two print at least once per semester and focus on issues related to people of color.

Electronic Media is housed in The Campus Media Center (TCMC). TCMC has three professional staff members. TCMC facilitates student programs and events by coordinating audio visual support. TCMC also includes 88.7 FM WFNP, 64 AM WFNP, Channel 3, WNPC-TV 6 and NPC-17.

WFNP AM and FM is a student organization which broadcasts music, news, sports and public affairs programming to the campus and local communities.

Channel 3 is a 24-hour a day bulletin board listing information concerning students and playing audio from WFNP and WRHV-FM.

WNPC-TV 6 offers students a chance to produce their own programs to air on this campus channel. Students learn management, budgeting and broadcasting skills involved with the operation of TV station. WNPC airs student-produced programming and movies selected by students.

NPC-17 cablecasts to the campus and surrounding communities. Programming includes student productions, movies and syndicated programming.

Athletics, Intramurals and Recreation

The New Paltz departments of Athletics and Recreational Sports offer students a wide range of opportunities to take part in athletic activities at New Paltz. Featuring a main arena that seats 1,800, a six-lane pool, four racquetball courts, a dance studio, a weight room, a 36,000-square-foot air-supported structure, and a vast outdoor expanse that includes 25 tennis courts and numerous fields, more than 60 percent of the students, faculty, and staff take advantage of the athletic facilities and programs offered on the intercollegiate, intramural, club sport, and recreational levels.

Intercollegiate Athletics

Varsity sports continue to play a significant part in the life of students at

New Paltz. The College fields teams in 15 NCAA Division III varsity sports -- equally divided between men's and women's teams. Men's varsity sports include baseball, basketball, cross country, soccer, swimming and diving, tennis, and volleyball, while women field teams in basketball, cross country, lacrosse, soccer, softball, swimming and diving, tennis, and volleyball.

New Paltz athletes have enjoyed significant success in terms of team and individual recognition for excellence in sport. Through membership in NCAA Division III, the State University of New York Athletic Conference, the Eastern Collegiate Athletic Conference, the New York State Women's Athletic Association, our athletes have earned numerous conference, national, All-SUNYAC, All-New York State, ECAC, and All-American awards as well as successfully representing the College in post-season competition.

Although time-consuming, student-athletes are able to balance the strenuous training and time demands with a busy schedule. The careful time management and dedication required are more than compensated for by the support of the college community on and off the field.

Intramural Sports

The Intramural sports program is designed to provide opportunities for students, faculty, and staff to participate in organized competition. Team and individual sports are available in male, female, and coed divisions. With the emphasis on participation, many students take advantage of activities such as flag football, basketball, volleyball and softball. Tournaments are held for badminton, racquetball, golf, tennis, and the bench press.

Recreation

The recreational facilities are open seven days a week to the college community. Offerings have been designed to provide equal opportunity for participation regardless of skill level. Activities include weight training and fitness, racquetball, basketball, swimming, tennis, volleyball, walleyball, yoga, aerobics, and a variety of martial arts programs.

Office of College Activities

The College Activities Office (SUB 209) works with student clubs and Greek letter organizations to assist them in planning a wide variety of educational,

entertainment, and social programs throughout the school year. Students can participate in more than 100 clubs and organizations. A listing of clubs and information about their weekly meetings and upcoming events is available at the Information Center and in SUB 209.

Student Union Building

The "SUB" houses many services for students. It has meeting rooms, club office space, a Recreation Room, an Information Center, lounges, the Bookstore, a Food Court and the Student Association offices.

Many programs will take place in the SUB's Multipurpose Room throughout the year. Homecoming events, student conferences, talent shows, films, performances, dances, lectures, Rainbow Month and cultural banquets are some of these activities.

College Auxiliary Services

College Auxiliary Services (CAS) is the campus-based not-for-profit corporation responsible for the Bookstore, Food Services, Kilroy's, Gameroom, Check Cashing, Vending, Refrigerator and Computer Rentals, I.D. Cards, Conferences and the Ashokan Field Campus. CAS policies are set by a Board of Directors made up of four students, two administrators and two faculty members.

Food Services

All residents must participate in a major meal plan. Freshmen must choose one of the meal plans offered at Hasbrouck Dining Hall. Other students may opt for the declining balance plan which is more expensive, but offers added flexibility in eating times and locations. Non-resident students wanting to eat on campus may choose a full meal plan or a Commuter Plan. All of these plans are tax exempt because they are prepaid, non-transferable and non-refundable.

Special Diets

A Food Service registered dietitian is available to assist students with special dietary requirements. Special arrangements are also made for students who must miss meals due to schedule conflicts or illness. A specific dietary plan prescribed by a physician should be put in writing by the student's physician and mailed to: Food Service Dietitian, College Auxiliary Services, State University of New York at New Paltz, New Paltz, NY 12561.

Hasbrouck Dining Hall

Hasbrouck is not only the best dollar value in meal plans, but it also has an amazing amount of variety and promotions built in. Hasbrouck options include a deli line, grill line, fresh dough pizza station, a specialty line that changes nightly, a self-serve work station, 45 item salad bar, Ridgefield's Yogurt along with an ice cream station and top-notch beverage island. In addition to all of this, we also offer a wide array of vegan and vegetarian options daily to meet students ever-changing diet. The plan also offers unlimited seconds on food and beverages.

Oscar's

This is a hot spot on campus for food and socializing. Decorated around the video/movie theme, Oscar's features a full grill line, microwave meals to go, pre-made salads and subs, assorted candy, chips, ice cream and beverages and a big-screen TV. Oscar's is a declining balance and cash operation.

The College Terrace

Enjoy lunch or dinner. The Terrace offers table service, and is a classy yet inexpensive option with a fabulous mountain view. Declining balance meal plans are welcome.

Huguenot Cafe

A cozy spot in the basement of Old Main for take out or the dining room, Huguenot Cafe is a cash-only unit which specializes in homemade soups, salads, sandwiches and a hot entree of the day.

SUB Food Court

A fine variety of appetizing and nutritious foods are available at the five food service locations in the SUB, whether you're looking for fast food, campus roaster rotisserie style chicken, fresh salads, gyros, homemade soups, deli sandwiches, fruit, yummys from the campus bakery, or complete meals. And you can follow your nose to the gourmet coffee, cappuccino and espresso, fresh-baked croissants and pastries at our popular Caffè del Lago (cash only)!

Campus Bookstore

Conveniently located in the SUB, the Bookstore is open 9 a.m. - 5 p.m. Monday - Friday, and extended hours during bookrush each semester. New and used textbooks, plus a complete selection of school supplies, art supplies, College-logo clothing, gifts, novelties, paperbacks, magazines, computer supplies and rentals, and

munchies. A Used Book Market is also sponsored in the SUB lobby each semester as a money saver for students wanting to buy and sell used text books.

Sweet Lorraine's Candy and Gift Shoppe

See Sweet Lorraine's next to the Bookstore for gourmet jelly beans and other fine candies. Also available are inexpensive live plants, cut flowers, special occasion helium balloons and bouquets.

Kilroy's Gameroom

A range of quick copy and finishing services for students is located in the SUB basement just inside the Gameroom. The Gameroom has pool tables, ping pong equipment, a jukebox, video games, candy and other snacks, beverages, relaxation and enjoyment.

Laundry Machines

Coin-operated Maytag washers and dryers are located in each of the 11 residence halls on campus. Laundry soaps are carried in the Bookstore.

Check Cashing for Students

CAS will cash local and out-of-town checks for students in the SUB Gameroom on weekdays, from 1:00 p.m. to 3:00 p.m. for a \$.50 fee. A valid New Paltz I.D. is required; there is a limit of one check per week per student and a maximum of \$60. A NYCE, Cashere, Discover automated bank machine is located outside the Bookstore. Note: Fleet Bank, Bank of New York, First Union Bank and M&T Bank are within walking distance of campus; all have 24-hour ATMs.

Refrigerator Rentals

Compact refrigerators are rented by the semester or the year and are great for residence hall room snacks and beverages. Call 914-257-3370 for rates and details.

I.D. Cards

The I.D. Office is in SUB Room 44. Students are charged \$10 for a picture I.D., payable at the time the photo is taken. An I.D. card is needed for meal plan usage, certain library privileges, recreation facilities and campus social events. The same I.D. is usable every year, but must be re-validated each semester. Re-validation is free.

Ashokan Field Campus

CAS operates the 372-acre Ashokan environmental education, retreat and recreation center, located 12 miles west of Kingston and about 45 minutes north of campus. Field study, meetings,

hiking, picnicking, canoeing, camping and special events are offered to students and campus groups for nominal fees.

Student Employment

Students interested in food service employment should apply upstairs in Hasbrouck (257-3353); bookstore employment in the Bookstore (257-3053); and Kilroy's Gameroom employment in the Gameroom in the SUB (257-3037). Pay starts at \$5.15 an hour with semester raises. Work is tailored around class schedules, with a maximum of 20 hours/week. Campus jobs provide spending money, good work experience and are an asset to any resume. Student employees are also eligible for CAS scholarships.

Living on Campus

257-4444

Residential living adds a valuable dimension to the overall college experience. The residence hall program seeks to promote the intellectual, social and personal growth of the student outside of the classroom. Through participation and involvement at the hall level, students not only benefit from, but contribute to, an effective living/learning environment. On-campus housing is available for approximately 2,200 students, living two to a room in one of 11 residence halls during the regular academic year. The halls are closed during some holidays and all intersessions. A variety of living options are available and are fully described in the Residence Life Housing Handbook. Each hall is administered by a full-time professional Resident Director and a staff of undergraduate Resident Assistants. Students in each hall are responsible for electing representatives to the Residence Hall Student Association (RHSA). The Director of Residence Life or designee serves as an advisor to the RHSA which serves as the campus-wide voice of the resident students.

Activities sessions, art exhibits, tournaments, dances, socials, films, athletic events, and field trips are planned by students in the various living units during the year. Each hall has its own treasury and holds events to raise funds for its own use.

All single undergraduate students must live in campus residence halls while enrolled for classes. This policy does not apply to undergraduate students who meet one of the following requirements:

1. He/she has successfully completed 30 hours of academic credit and/or remedial units as an on-campus resident student, or

2. He/she is a transfer student with a transcript verifying upper division status (57 or more credit hours), or

3. He/she is 21 years or older on or before the last official day of registration for the fall semester, or

4. He/she is residing at home with his/her parents or other close family members at a distance of 25 miles or less. A notarized statement signed by the parent or other close relative must be submitted attesting to this fact.

Requests for exemption from this policy must be submitted, in writing, to the Office of Residence Life. No exemption or release appeals will be heard between August 15 and the completion of the registration and fee payment period for the fall semester or between January 15 and the completion of the registration and fee payment period for the spring semester. Should a release be granted after that time, a refund request must be submitted, in writing, to the Office of Student Accounts. Eight to 10 days should be considered the normal processing time for such refunds.

Reservations for on-campus housing should be made as soon as possible following admission to the college. A \$50.00 Advance Room Deposit must be submitted to the Office of Student Accounts and a Residence Hall License must be on file in the Office of Residence Life in order to secure a room. The Advance Room Deposit is refundable on written request to the Student Accounts office by July 1 for the fall semester, and November 15 for the spring semester or 30 days after the official acceptance to the college, whichever comes later.

The Residence Life Housing Handbook outlines the terms and conditions of occupancy. The Residence Hall License covers the entire academic year or from the time of occupancy through the spring semester; it may only be terminated by the student upon withdrawal from the college or with the approval of the Office of Residence Life. A student's privilege of living on campus may be rescinded at any time for violation of campus or Residence Life regulations. For further information regarding the residence halls, please consult the Residence Life Housing Handbook or contact the

Office of Residence Life.

Residence Hall Student Association 257-4499

The Residence Hall Student Association is a representative body which provides resident input into all phases of residence hall life. This is accomplished by providing a method whereby residents can work together to program activities, have a voice in college administration and recommend changes in residence hall policies. On the hall and house levels, residents have an opportunity to elect officers to form a government whose duties include planning and implementing a variety of social, cultural, recreational and educational activities. These activities can include but are not limited to house dinners, Catch the Spirit Weekend, speakers and intramural sports participation. The student leaders currently holding these offices are eager for student input and encourage your involvement.

All students have the right and responsibility to participate in self-government, to elect officers, to plan and engage in residence hall programs; to establish and enforce regulations necessary to provide conditions for personal, social and academic development. Students who live in residence halls are citizens and members of a house and residence hall government, and are urged to participate.

All residence hall governments are represented on and are considered members of the RHSA and are represented on the Association Council. The primary purposes of the RHSA are to facilitate communication between the residence halls, to provide leadership training for hall governments, to provide programming for the campus, and most importantly, to work on behalf of residents in investigation and resolution of issues and policies related to residence halls.

Telecommunications and Telephones 257-3003

New Paltz has a state-of-the-art Ericsson digital telecommunications switch to provide voice and data services to faculty, staff, and students. Local service is provided by NYNEX, long distance (including international calling) is provided by AT&T.

There are telephones in each residence hall room which are active for use on campus. Students who want to make local or long-distance calls must use a Personal Billing Number (PBN). This PBN is a seven-digit code which provides access to outside lines. To obtain a PBN, students are required to show a Student ID card at the Telecommunications Office located in the Haggerty Administration Building, Room 40. Use of a PBN number constitutes agreement to abide by the policies contained in the Telecommunications Student Calling Guide.

Keep in mind that a PBN is similar to a bank card. Under no circumstances should that number be given to or shared with anyone. We will terminate telephone service if we suspect hacking, fraud or abuse of services. Hacking is an attempt to obtain PBN's by dialing random numbers to obtain a confirmation tone; this triggers an error message in the switch which identifies the extension being used by the hacker. The use of someone else's PBN is considered fraud.

All telephone repairs are handled by Telecommunications. Telephones not working correctly should be brought, along with the line cord, to HAB 40, unless the damage is due to vandalism or negligence. Repairs will be made at no extra charge.

Religious Life

As a publicly supported institution, New Paltz endorses no religious groups. However, student religious groups are permitted the use of campus facilities, and students may participate in the religious life of the community, which includes places of worship for most major faiths and denominations. A diversity of programs and activities are offered to students through the various religious organizations on campus.

Student Services

Health Services

Student Health Center

75 South Manheim Blvd.
New Paltz, NY 12561-2499
Phone: (914) 257-3400
Fax: (914) 257-3415

The Student Health Center is open weekdays while the University is in session with limited hours on Fridays. The switchboard is answered between 8:30 a.m. and 11 p.m. Monday thru Thursday and 8:00 a.m. to 4:00 p.m. on Friday. The Center's staff assist in providing for general health care needs of registered students while the college is in regular session. When the Center is closed there are on-call physicians who can be accessed through Campus Police or the Resident Director on duty.

Prior to the beginning of the semester a student must have filed HEALTH REPORT and IMMUNIZATION FORMS which have been SATISFACTORILY COMPLETED by the student and personal physician. Students who have not submitted a completed Health Form will not be treated in the Health Center but are encouraged to contact the Center for professional help in securing appropriate medical care.

The professional staff consists of a physician-director, family physicians, a physician assistant, a consulting psychiatrist and nursing staff. The staff is available by appointment. Students with any health problems should telephone 257-3400 and a triage nurse will help them secure appropriate care in a confidential manner. There is an Infirmary for short-term stays for students with uncomplicated illnesses who require bed rest when the Health Center is open. Students who require hospitalization are referred to local hospitals or may be hospitalized near their family's home by their personal physician.

When there is greater demand for services at the Center than can be met, some students will need to be seen by a physician in an off-campus facility or by their own personal physician. This would usually not apply to first-semester students who are new to the area.

Costs

Services offered are covered by a combination of state appropriations, mandatory health fee and fee-for-services.

Costs incurred during referral by Health Center staff to specialists outside of the Center must be paid by the student at the time of the specialty visit. SUNY/NEW PALTZ IS NOT RESPONSIBLE FOR ANY HEALTH-RELATED CHARGES INCURRED BY A STUDENT.

Health Insurance

Students must have proof of an acceptable form of health insurance designed for hospitalization and emergency room visits. Certain other expenses such as off-campus consultations, laboratory, x-rays, and prescriptions MAY be reimbursed by such policies. The campus sponsors one such plan through the Office of Student Accounts. It is the student's responsibility to check with the insurance carrier's 800-number before the above services are performed.

Management of Emergencies

The Student Health Center is not an emergency room and therefore reserves the right to determine which medical conditions its staff can appropriately treat and which conditions need to be referred for treatment to an off-campus specialized facility such as an emergency room.

For true emergency medical situations there is ready access to the New Paltz Rescue Squad for emergency transport to an area hospital. The ambulance fee is approximately \$400. For medical and mental health emergencies which require management in a hospital, students are required to have an evaluation by a staff physician at the Health Center prior to clearance for resuming medical care in the Student Health Center.

Medical Transports

For true emergency situations the Rescue Squad transports patients to an area emergency room. The Rescue Squad can be activated by a call to the

Campus Police or the Health Center. For urgent but non-emergency medical problems which come about when the Health Center is closed, and may require transportation to a medical facility, students should contact their Resident Director or Campus Police who will assist them in obtaining help usually through access to a local taxi service whose fee can be paid by the student up to 30 days after using the service.

The Psychological Counseling Center

VLC 110
257-2920

The mission and goal of the Psychological Counseling Center in both remediation and prevention is to facilitate student emotional and psychological development and to impact academic decision making and retention. A model of short-term (eight session) individual psychotherapy is followed for currently registered students. Group therapy is available depending on therapy need and accessibility. Students may be referred to county or private mental health practitioners when eight sessions are not clinically appropriate. Appointments are scheduled by telephone or walk-in and emergencies are assigned according to clinical evaluation. A student development philosophy defines the Psychological Counseling Center's approach to consultation and educational programming and is consequently an integral part of our counseling service. Ethical and legal policies and procedures are developed according to guidelines of the American Psychological Association and the statutes of the State of New York. Masters-level practicum trainees follow the Association of Psychology Internship Centers guidelines.

OASIS Crisis Intervention Hot-Line Center

Deyo Hall Basement
Hours are in the Evening
257-4945

OASIS is the student-staffed crisis intervention center and telephone hotline. OASIS volunteers are trained and supervised by the Psychological Counseling Center to respond to telephone calls and walk-in requests for support, information, and referral. The staff provides crisis intervention for students struggling with a variety of emotional and/or interpersonal concerns. In addition, the center has information covering a wide variety of area services and events. Call or stop in when classes are in session.

Haven

Deyo Hall Basement
257-4930

Haven of OASIS provides hotline and walk-in support, information, and referral for students who have been the target of rape, attempted rape, or any unwanted sexual experience. Call or stop in, during office hours, when classes are in session. Student-staff can also be contacted via a beeper system, 879-0068, on a 24-hour basis.

Options: A Resource Center for Healthy Choices

SUB 38
257-3088

Options is a research and education center which provides prevention programs and wellness information on alcohol, tobacco, and other drugs, as well as healthy programming for students, staff and faculty. Located in Room 38 of the Student Union Building, Options houses a resource library including many subjects related to health promotion: alcohol, tobacco, other drugs, safer sex, HIV/AIDS, sexual aggression, stress and eating issues. Student interns and volunteers provide outreach activities, social programs and educational workshops throughout the year.

Other Services

Career Advising and Fieldwork Center

Haggerty Administration
Building 705
257-3265

The Career Advising and Fieldwork Center (CAFC) offers a variety of resources to meet the needs of students and alumni at all stages of career and life planning. With an educational focus, the CAFC helps students to integrate college experiences with career goals.

The CAFC staff can provide assistance with a range of career-related questions, from "What major is right for me?" to "How do I look for jobs and/or graduate programs in my area of interest?" The programs of the Career Advising and Fieldwork Center are designed to help individuals assess their interests, skills, values and priorities; to research career options; to set goals; and to market themselves effectively in a search for employment.

CAFC services include individual counseling and group sessions on career-related issues; skills and interests assessments; a career information library; help in developing the tools to conduct an effective job search (resume and cover letter writing, interviewing, job search techniques); listings of employers and permanent, co-op and summer opportunities; special programs on a variety of careers; a credentials service through which references may be kept on file to support job/graduate school applications.

We encourage students to visit The Career Advising and Fieldwork Center at any point during their time at New Paltz to learn to make the most effective use of our services.

Cooperative Education and Internships

The Career Advising and Fieldwork Center acts as a clearinghouse on campus for information about internships and cooperative education experiences. These opportunities provide a way for students to integrate classroom learning with practical work experience.

A variety of positions are available, including full-time, part-time, summer, paid, unpaid, credit-bearing and non-

credit bearing. In addition to local listings, the CAFC keeps information on statewide, national and international opportunities. Most often, internships offer unpaid work experience with, perhaps, a stipend awarded, whereas co-op positions are usually salaried. Students arrange with a faculty sponsor in their academic major to earn fieldwork credit. Most often, co-op/internship positions are available to students with junior or senior standing; some are also available to graduate students.

Both co-op and internship experiences have many advantages. These include enrichment of academic learning, knowledge with which to make better career choices, personal growth through association with a variety of people, and opportunities to earn income while continuing college study.

The Career Advising and Fieldwork Center works closely with interested students to help them locate and apply for internship/co-op positions, as well as with academic departments which may also have information on these opportunities.

Services for Individuals with Disabilities

SUB 205
257-3020

Disabled Student Services coordinates services for individuals with disabilities. These services range from determining academic adjustments (testing accommodations, scribes, readers), arranging for interpreters, and transporting persons via the Accessible Van Service, to providing campus maps for showing accessible routes and building entrances. The staff at Disabled Student Services works with faculty and staff in other departments to ensure the maximum utilization of instructional and non-academic programs by students with disabilities. The staff also functions as liaisons with Recordings for the Blind & Dyslexic, Commission for the Blind and Visually Handicapped, and VESID. The college is committed to achieving full participation and integration for individuals with disabilities into the college community.

Students with disabilities are encouraged to contact Disabled Student Services upon their acceptance to the college. Students may, however, contact Disabled Student Services at

any time during their college career at New Paltz. The initial contact will ascertain the nature of the documented disability (physical, learning, health-related, or psychological), the level of support received thus far, and what services and accommodations are requested by the student. This information is used to determine the college's ability to meet the students' needs. The office may refer students to other offices or departments on campus, such as the Center for Academic Development, the Speech and Hearing Clinic, or the Student Counseling Center.

Disabled Student Services responds to specific questions concerning program accessibility and architectural barriers, and facilitates the campus' compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA).

International Student Services SUB 205 257-3020

The Office of International Student Services has served over 550 students annually from more than 70 countries over the past five years. Many of these students live on campus. Special programs and activities of interest both to the international student community and students at large take place during every academic year. A special program in English as a Second Language is available for students requiring greater competence in English prior to, or after, matriculation.

The Office of International Student Services offers international students and scholars studying at New Paltz advice and counseling with regard to their non-immigrant status in the United States including Extension of Stay, Change of Status, Work Permission and Authorization, Reinstatement as well as counseling to eligible students seeking to transfer to SUNY at New Paltz. Counseling on matters of insurance, taxation, travel and cross-cultural adjustment is also available through the office. The office works closely with each student to provide individualized service from the student's acceptance to the point of departure.

New Paltz has a long-standing history of commitment to the international student program, and is committed to maintaining the diversity international students provide to the campus community.

Mandatory Health Insurance Fee

The SUNY Board of Trustees adopted a resolution for mandatory health insurance coverage for all participants in SUNY's programs of international exchange, research and study. The mandatory health insurance coverage includes all students and scholars entering the United States for study or research at any SUNY campus; it also is required of American students or scholars who participate in any SUNY study abroad program. The state-operated campuses charge a mandatory insurance fee per annum or per term.

Neither the State of New York, through its agents, nor the State University of New York through its agents and employees, is responsible in any manner whatsoever for the payment of any claim for health-related services provided to individuals covered under this insurance policy. The State of New York and SUNY are not responsible for obligations incurred by individuals who are not covered by the insurance policy.

All individuals participating in State University's health insurance programs described herein are responsible for reviewing all descriptions of the scope and level of coverage offered by this policy. Such participants will be solely responsible for obtaining additional coverage not provided under this program if such is deemed necessary by the participant.

Student Consumer Information Requirement

In compliance with both Federal and State laws, the College makes available to students or prospective students information about instructional programs, costs of attending the institution, financial assistance available to students, refund policy, qualification of faculty, graduation rates and placement of graduates. The College Recorder is available to assist students or prospective students in obtaining information specified in the Regulations of the Commissioner of Education, Chapter 2, Sections 53.1-3.4.

Access to Educational Records

1. The Family Education Rights and Privacy Act provides that qualified individuals and agencies shall have the right to inspect and review certain student educational records. Individuals and agencies so qualified are:

- Presently and formerly enrolled students (who may see their own records);
- Parents of formerly enrolled students of the van den Berg Learning Center;
- School and government officials and agencies specifically described in Section 438 of the Act.

2. The following records are maintained by the college and may be reviewed by duly qualified persons by making a written request at the designated office. The law requires that access must be provided not more than 45 days after receipt of the request:

- Records relating to student payments, receipts, applications for refunds, dormitory damage assessments -- Office of Student Accounts, HAB 210.
- Information concerning NDSL and Perkins Loans -- Student Loan Office, HAB 302.
- Student teaching records, including personal information and evaluation reports (other than confidential evaluation reports received prior to January 1, 1975) -- Student Teaching Office, OMB 107.
- Records and recommendations relating to overseas academic programs (other than letters of recommendation received prior to January 1, 1975) -- Office of International Programs, HAB 33.
- Student housing records including current addresses, records of dormitory disciplinary actions, requests for single rooms and accommodations for other special housing needs, dormitory damage assessments, resident assistant employment information -- Office of Residence Life, CPH.
- Records relating to Continuing Education (other than letters of recommendation received prior to January 1, 1975) -- Center for Continuing Education, Grimm House.
- Undergraduate admissions and readmissions files (other than letters of recommendation received prior to January 1, 1975) -- Office of Records/Registration, HAB 19.

- Records relating to Educational Opportunity Program students admitted under the Special Admissions Process, including admissions applications files (other than letters of recommendation received prior to January 1, 1975), academic records including letter of academic probation and dismissal -- Office of Special Admissions, HAB 404A.
 - Graduate admissions applications, related correspondence (other than letter of recommendation received prior to January 1, 1975), and transcripts of baccalaureate work for matriculated and non-matriculated graduate students -- Office of the Graduate School, HAB 804. Graduate Record Examination or Miller Analogies Test scores where required and letters of reference for matriculated students are on file in the respective department offices. Duplicate transcripts of baccalaureate work are on file in the respective department offices.
 - Records relating to career planning and placement -- Career Advising and Fieldwork Center, HAB 705.
 - Transfer students credit evaluations -- Office of Records/ Registration, HAB 19.
 - Records relating to student financial aid (other than Parents Confidential Statements and income tax returns) -- Office of Financial Aid, HAB 603.
 - Records relating to disciplinary action, legal action, or complaints about students -- Office of the Vice President for Student Affairs, HAB 701.
 - Student employment records -- Business Office, HAB 301.
 - Records relating to applications to medical and dental schools (others than letters of recommendation received prior to January 1, 1975) -- Pre-Medical and Pre-Dental Advisory Committee, Dr. Denis Moran, Chairman, WSB 14.
- 3.** The following records maintained by the college are specifically excluded from the Family Education Rights and Privacy Act and will not be available for inspection.
- Personal notes made by instructional, supervisory, or administrative personnel, in the sole possession of the maker and not available to anyone else except a substitute.
 - Records maintained by the Health and Counseling Centers, or by other college counselors. These records will be made available to an appropriate professional of the student's (or parent's) choice.
 - Confidential letters of recommendation, reference, or evaluation if the right of access has been waived (see paragraph 8).
 - Other letters of recommendation, reference, or evaluation received prior to January 1, 1975.
 - Parents Confidential Statements and parents' income tax returns.
- 4.** Each of the offices mentioned in paragraph 2 will maintain a record of individuals or agencies who have requested and/or obtained access to the student records for which it is responsible, which record will be available for inspection on the same basis as the basic records.
- 5.** Access to records listed in paragraph 2 may be obtained by submitting a written request to the office indicated. Forms for this purpose are available in these offices but are not required. Arrangements will be made within 45 days of the request for inspection of such records in the office in which they are maintained.
- 6.** Requests by the student (or parent) for permanent removal of any document or record from the file or for permission to file a response to such document or record shall be made to the officer maintaining the record. If the request is denied, a hearing may be obtained in the following manner:
- If the officer maintaining the record is a vice president, the hearing will be conducted by the president (or designee).
 - If the officer maintaining the record is not a vice president, the hearing will be conducted by the vice president (or designee) responsible for supervision of the office in which the record is maintained. In such cases the president (or designee) may entertain appeals.
 - The hearing will be held within a reasonable time after request thereof is made and a written decision will be issued within 10 working days of completion of the hearing.
- 7.** Each student may waive his or her right to access to confidential recommendations used solely in connection with applications for admission to this or any other college or university, applications for employment, or receipt of an honor. The names of persons making such recommendations will be provided upon request. The executed waiver will be sent to the individual providing the recommendation and will place the recommendation in the category of documents not available for inspection and review.
- 8.** Copies of transcripts of academic grades will be provided in accordance with the provision in the current Schedule of Classes. Copies of other records may be obtained from the appropriate office upon payment to the Office of Student Accounts of \$1.00 for the first page and \$.25 for each additional page.
- 9.** It is the general policy of the college to obtain a student's consent before releasing any information. However, in the case of normal public relations such as a specific public event (theatrical production, concert, athletic event, graduation, awarding of scholarship), information regarding a student's participation in that event, the student's class and major field of study, and the height and weight of members of athletic teams may be released without consent. Any student who does not wish to have this information released must so notify the college relations officer in writing not later than the second week of classes. -- Office of College Relations, HAB 501.

Special Academic Programs and Educational Opportunities

Continuing and Professional Education 257-2900

The Center for Continuing and Professional Education utilizes campus resources to meet the educational needs of the nontraditional or adult student. Programs are available for people who need a high school equivalency diploma, those in need of undergraduate or graduate courses or degrees for a career change or advancement, as well as those who wish to enrich their lives through general-interest credit or credit-free workshops. Courses are offered days, evenings, and on weekends, both on campus and at extension centers in the mid-Hudson area.

A full variety of student support services are available to Continuing Education students including child care, career counseling, tutoring and academic advising. All Continuing Education students who wish to attend should make an appointment with an Academic Advisor at the Student Advising Center.

In order to facilitate the return of adults to school, the College provides a simplified mail registration process which permits adults to begin or continue their education immediately. Students may attend on a part-time basis taking a maximum of eight credits. Students are urged to meet with an advisor at the Student Advising Center prior to registration.

Special Programs

Audit Privileges

Some academic courses may be audited. Registered students at the State University of New York at New Paltz, faculty and staff of New Paltz, and persons over 60 years of age may audit courses without paying a registration fee. For all others, a non-refundable registration fee of \$50.00 will be charged. Persons who would like to audit a course must obtain an Audit Form from the Office of Records and Registration. The completed form must contain the signatures of (a) the chair of the department offering the course

and (b) the course instructor. The Audit Form must be returned to the Office of Records and Registration by the end of the "course add" period. Persons required to pay the registration fee must submit proof of payment with their completed Audit Forms.

The audit privilege permits the auditor to attend a course, providing there is room in the course and the necessary approvals have been granted, and to do assignments, but it does not permit the auditor to take examinations in the course or to have his or her work evaluated in any way. The auditor receives no grade for the course, nor is any record of course attendance kept in the Office of Records and Registration. Students may not change their enrollment status from audit to credit, or from credit to audit.

Audit privileges are not ordinarily available in studio, laboratory, or performance courses, or courses where class participation of students is of major importance, nor are they available in credit-free courses offered by the institution or in any OAP study program or course.

Cross-Registration Program

Full-time students at New Paltz who wish to enroll in courses offered by Bard College, Culinary Institute of America, Dutchess Community College, Marist College, Orange County Community College, Sullivan County Community College, Ulster County Community College, and Vassar College (Chinese/Japanese Languages and Literature) may do so at no extra charge for tuition. Courses at these colleges are open to New Paltz students, provided that prerequisites are met and space is available. Students wishing to register for more than 5 credits at another institution must file their immunization records with that institution. Credits and grades earned through this program will become part of the student's New Paltz record. Students must adhere to the academic policies and procedures of the host institution when taking courses there. Details and application forms are available in the Records and Registration Office.

The Honors Program CH-H 111 257-3933

The Honors Program fosters academic excellence by providing students with a special curriculum and an atmosphere of cooperative thinking. The curriculum consists of up to four Honors seminar-courses and a senior thesis or project.

Most students enter the program in their sophomore year. Entry in the junior year is possible for transfer students. Freshmen enter into pre-Honors.

Admission to the program is based on grades, portfolio, recommendations and an interview. Students may apply themselves for admission, or come to our attention through their performance profile or faculty recommendations.

English as a Second Language (ESL) HUM 7 257-3595

The Haggerty Institute for English as a Second Language provides intensive and semi-intensive instruction for non-native speakers of English who wish to improve their language skills for academic, personal or professional reasons. Non-native speakers of English who have been identified by proficiency testing as needing English language instruction are required to enroll in these courses. Other students may elect to enroll in these courses, but must have permission of the Haggerty Institute and be placed according to proficiency scores in English. A full program of English language study is available for international students wishing to improve their language skills in preparation for academic study. Courses are offered at all levels (elementary, intermediate, advanced and English for Academic Purposes) and in all skill areas (listening, speaking, reading, writing and grammar). Classroom instruction is supplemented by cultural orientation and activities, language laboratory, computer assisted language learning,

TOEFL preparation and tutoring. For further details see the section on ESL course descriptions.

International Education

HAB 35
257-3125

Study abroad opportunities support and broaden the SUNY at New Paltz academic programs. Overseas academic programs enable students to become immersed in the academic and cultural life of countries throughout the world.

The Office of International Education presently offers a wide range of programs in a variety of disciplines. Offerings include summer, intersession, semester and academic year options. While many programs combine intensive language instruction and cultural studies of a particular country, others provide academic opportunities for study abroad in a specific discipline or for direct enrollment in a foreign university. English-speaking opportunities are available for students with little or no foreign language background.

For programs during the academic year, a student must have attained at least sophomore, and preferably junior, standing at the time of departure. Some summer programs accept graduating high school seniors and college freshmen. Students should apply early in the year preceding the one they wish to spend abroad. Applicants must meet the specific eligibility requirements of a given program; these are available from the Office of International Education.

Credits earned on SUNY programs automatically count toward graduation. Financial aid is applicable to study abroad. Students in their final semester of degree study are eligible to participate in New Paltz study abroad programs.

SUNY at New Paltz students may participate in the more than 300 study abroad programs administered by other campuses of the State University of New York. Detailed information on all such programs is available from the Office of International Education, located in Haggerty Administration Building room 33.

Binational Programs

*New York College, Athens, Greece
American Institute of Business and
Technology, Singapore*

New Paltz has developed several innovative binational programs with post-secondary institutions overseas. Students who successfully complete a New Paltz-approved program of study at New York College in Athens, Greece or at the American Institute of Business and Technology in Singapore can transfer to New Paltz with junior standing.

The Learning Resource Center HUM 110 257-3591

The Learning Resource Center (LRC) is the College's center for tutoring and developmental studies. The Center offers a series of non-credit remedial/developmental courses. The LRC also provides small-group tutoring in more than 60 courses in liberal arts and sciences, fine and performing arts, and education. Students meet with tutors for weekly, 50-minute sessions. Tutors, both undergraduates and graduates, are hired from the College community. To qualify as tutors students must demonstrate academic excellence, maturity and a willingness to help others. Tutoring is free of charge to all New Paltz students.

The goal of the tutoring program is to help students fulfill their potential for academic success by assisting them in becoming active, efficient, confident and independent learners.

Students needing extra help may come on their own or be referred by an instructor for diagnosis of reading and/or writing difficulties, developmental reading or other academic support programs, one-to-one or small group tutorial sessions with peer tutors, one-to-one assistance to students preparing written assignments, and study skills workshops.

For further details consult the sections on the Basic Skills, the LRC course listings, and Developmental/Remedial Courses.

Visiting Student Program

In cooperation with member institutions of the Association of Colleges and Universities of the State of New York, New Paltz participates in a visiting student program designed to serve students who wish to spend a semester at another institution, public or private, within the state of New York.

Visiting students accept full responsibility for tuition, fees, and other charges prevailing at the host institution. Both the Regents Scholarship and the Tuition Assistance Program Award may be applied toward payment.

Visiting students also must accept full responsibility for informing themselves of and following all academic rules and regulations prevailing at the host institution. Visiting students must file their immunization records with the host institution. Credit for approved courses will be transferred back to New Paltz and will count toward baccalaureate degree requirements here.

Teacher Education Programs

Certification

The New York State Education Department, Division of Teacher Education and Certification, issues three types of certification.

Certificate of Qualification

A Certificate of Qualification, which is an interim certificate valid for five years, may be issued to those eligible for provisional certification upon submission of an application and payment of a fee. The Certificate of Qualification is evidence that the holder is eligible for a Provisional Certificate, which will be issued at the request of the candidate. At the commencement of regular full-time employment in any public school in the state, during the period of validity of the Certificate of Qualification, the holder shall deliver such certificate to the chief school officer of the district offering employment, who shall forward such certificate to the State Education Department for the issuance of a provisional certificate. The Certificate of Qualification is evidence that the holder is eligible for employment as a substitute teacher. Do not surrender this certificate until you have full-time employment in a public school. Examples:

Candidate A is issued a Certificate of Qualification effective September 1, 1991 and does not obtain public school employment prior to September 1, 1996. The Certificate of Qualification is then returned for a provisional certificate valid until September 1, 2001.

Candidate B is issued a Certificate of Qualification effective September 1, 1992 and obtains public school

employment on September 1, 1993. The Certificate of Qualification is then returned for a provisional certificate valid until September 1, 1998.

Provisional Certification

Provisional certificate, valid for five years, will be issued at the request of the candidate or at the time of employment in a public school in the state. (The holder of a Certificate of Qualification must surrender the C.Q. for a provisional certificate before the expiration date of the Certificate of Qualification for certification to remain valid.) Permanent certification will be issued upon completion of the requirements for permanent certification in effect at the time of issuance of the provisional certificate.

Permanent Certification

Candidates for permanent certification must meet the following requirements for permanent certification: a master's degree functionally related to the area of the teaching certificate, training in identification and reporting of child abuse, and a passing score on two sections of the New York State Teacher Certification Examinations: the Content Specialty Test (CST) in the title of the certificate and the Assessment of Teaching Skills-Performance (ATS-P).

New Paltz offers undergraduate programs in the following fields: elementary Pre-K-6; art K-12; secondary 7-12: English, French, German, Spanish, mathematics, the sciences (biology, chemistry, earth science, and physics with general science added in each case) and social studies; and speech and hearing handicapped K-12.

Students pursuing certification in a field not offered at New Paltz but who are taking courses here must consult with the Division of Teacher Education and Certification, Cultural Education Center, Empire State Plaza, Albany, New York 12230, (518) 474-3901, Monday through Friday (1-4 p.m. only), to confirm the acceptability of their courses for certification purposes.

Student Teaching

The State University, The State of New York, and the public school communities uphold rigorous standards regarding teacher certification. Since the student teaching period is critical in this process, students must acquaint themselves with the regulations concerning course requirements, scholarship standards, physical condition, and related categories of preparedness for

professional teaching. In addition, student teachers must provide their own transportation to and from their assigned schools.

The Professional Semester

All Pre-K-6 students entering the Professional Semester must have an overall GPA of 2.50.

To register for the Professional Semester (16 credits) students must meet the following criteria:

- register in advance, the semester before entering the Professional Semester
 - completion of the General Education Program
 - completion of the liberal arts major
 - completion of the following related courses, offered through Liberal Arts areas: Physical Geography, Mathematics for Elementary Teachers, Geometry: A Modern Introduction, six credits of language other than English, and public speaking with no less than a "C-" in any of these courses.
- For students who transfer into New Paltz with an A.A. or an A.S. degree, Sign Language I and II may be used to fulfill the language requirement. This is not the case for students fulfilling their General Education requirements here at New Paltz.
- successful completion of Child Psychology and Development, and Sociological and Philosophical Foundations with no less than a "C-" in either of these courses. (Student must also complete course prerequisites.)
 - successful completion of 35375, Teaching Reading Elementary I, with no less than a "C-".

General Requirements

All students entering student teaching (including Pre-K-6 and 7-12 secondary, K-12 art education, and speech and hearing) must have a GPA of 2.50 and have successfully completed all prerequisite education courses required for certification. (Secondary Education students must also have a GPA of 2.50 in the major.) In addition, students must be recommended for student teaching by the appropriate faculty.

To secure placement in student teaching, students must attend an information meeting scheduled by the Office of Student Teaching and submit completed applications to the Office of Student Teaching a full semester in advance (during the first two weeks).

Certification Procedure

Upon verification by the Recorder of successful completion of requirements for the degree in education, the Dean of Education will report to the State Education Department that the student has successfully completed a registered program and will recommend issuance of a teaching certificate. The State Education Department will grant the applicant a teaching certificate upon such a recommendation and the additional evidence of successful completion of two sections of the New York State Teacher Certification Examinations: the Liberal Arts and Science Test (LAST), recommended to be taken the semester prior to the Professional Semester, and the Assessment of Teaching Skills-Written (ATS-W), recommended to be taken at the conclusion of the Professional Semester.

Information

Further information is available in the Office of Student Teaching and Field Services (OMB 107, 257-2822) and the Office of Educational Advisement (OMB 105, 257-2805).

Graduate students with a baccalaureate degree and no certification who are interested in teaching certification are urged to seek advisement from the Education Advisement Office, OMB 105, (914) 257-2805 or to write to the Department of Elementary Education (OMB 205), to request information concerning the Master of Science in Teaching program.

Professional Career Programs

Professional training in law, medicine, dentistry and the sciences rests on a foundation of undergraduate education, usually consisting of a four-year program leading to a bachelor's degree. Students who seek professional careers should review the catalogs of graduate and professional schools, attend the Career Advising and Fieldwork Center's workshops on Considering Graduate and Professional School, and consult their academic advisor and Career Advising and Fieldwork counselors.

Students can find catalogs on microfiche in the College library for all U.S. graduate schools. Catalogs for colleges in New York State and in the northeast can be found in the Career Advising and Fieldwork Center's library. Both campus resources have information on how and where to

apply. The requirements for each school can be found in Peterson's Guide to Graduate Study and other directories. Information about each graduate school exam and application procedure is available in the Career Advising and Fieldwork Center, HAB 705, 257-3265.

Pre-medical education is discussed in Admission Requirements of American Medical Colleges, which includes Canada, published annually by the Association of American Medical Colleges, 2530 Ridge Avenue, Evanston, IL 60202. This manual provides a comprehensive discussion of specific school requirements.

The State University of New York at New Paltz offers the courses required for entry into health professional graduate programs: allopathic medicine (M.D.), osteopathic medicine (D.O.), veterinary medicine, dentistry, optometry, physical therapy, and others. The pre-medical and pre-dental programs require completion of any major, as well as one year each of General Biology, General Chemistry, Organic Chemistry, Calculus, and General Physics. These particular courses and the Medical College Admissions Test (MCAT) are required for admission to any of the 125 medical schools in the United States.

In addition to the pre-health programs above, the State University of New York at New Paltz has established cooperative programs with the New York College of Osteopathic Medicine and the SUNY College of Optometry, which require special applications. For further information about pre-health professional programs, see Pre-Health Professional Programs in this catalog or contact the Biology Department, 257-3770.

Information on preparation for law school is available in The Official Guide to U.S. Law Schools, a publication of Law School Admission Council/Law School Admission Services in cooperation with the American Bar Association and the Association of American Law Schools. It is available from: Law Services, Publications, Box 40, 661 Penn Street, Newtown, PA 18940-0040. Students may seek further advice from designated faculty advisors and the Career Advising and Fieldwork Center at 257-3265. Students interested in meeting with the pre-law advisor should contact the Political Science Department, 257-3540.

Tuition and Fees & Financial Aid

Tuition and Fees

Billing and payment is made on a semester basis. Students are billed when they register.

Full-time student = 12 or more semester credit hours

Part-time student = 11 or less semester credit hours

	<i>FULL-TIME (Per Semester)</i>	<i>PART-TIME (Per Credit)</i>
TUITION		
New York Resident:		
Undergraduate	\$ 1,700.00	\$ 137.00
Graduate	\$ 2,550.00	\$ 213.00
Non-Resident:		
Undergraduate	\$ 4,150.00	\$ 346.00
Graduate	\$ 4,208.00	\$ 351.00
FEES		
College Fee	\$ 12.50	\$.85
Activity Fee	\$ 75.00	\$ 6.25
Health Service Fee	\$ 50.00	\$ 4.00
Athletic Fee	\$ 45.00	\$ 3.50
Technology Fee	\$ 30.00	
Health Insurance (per year)	\$ 137.00	
Room Rent	\$ 1,495.00	
Food Service	\$ 1,030.00	
Orientation Fee (Freshman)	\$ TBA.	
Orientation Fee (Transfer)	\$ 0.00	
Late Registration Fee	\$ 30.00	
Late Payment Fee	\$ 30.00	per month after official first day of semester to a maximum of \$120.00 per semester.

All fees are subject to change without notice.

First-year costs for in-state freshmen living on campus will total approximately \$11,500.00. An allowance of \$1,500 for the year has been included in this total for travel, clothing, and entertainment, though these costs will vary among individuals. Yearly estimates for other students, such as commuters, are available on request from the Financial Aid Office.

Students are required to buy their own books and supplies; the cost varies according to the individual's program. Normally, the cost per semester for books and supplies should not exceed \$350, except for students in art programs where the amount for supplies may be greater.

All students are required to pay tuition and mandatory fees. Tuition rates are based on student type, residency and level of courses -- undergraduate or graduate. Room rent and food service are assessed according to individual circumstances. However, all students who reside on campus will be required to subscribe to a campus meal plan. The activity fee, assessed by the Student Association each semester, covers class and organization dues, subscriptions to student events, and a discounted admission rate to student activities.

The parking fee covers maintenance of parking lots.

The athletic fee is the sole support of intercollegiate athletics. The health center fee helps to maintain the campus health center services.

The technology fee supports the maintenance of student computer labs on campus and in the residence halls.

All full-time matriculated students must be covered by health and accident insurance. Many students are covered under their families' existing policy. (See section on Health Insurance under Health Center.) The health and accident insurance fee can be waived if the student submits proof of comparable health insurance coverage. For students enrolling in the fall semester, a full year's premium will be billed in the fall. For students starting in the spring semester, a partial year's premium will be billed in the spring. Full coverage is for a 12 month period, from September to August.

Payment

Students must confirm their registrations and arrange for payment in full of tuition, fees, room rent, and food services before the first day of

classes each semester. Each semester's Schedule of Classes carries specific information about deadlines and due dates.

Payment Plans

New Paltz offers a monthly payment plan through the Office of Student Accounts for a nominal annual fee. The plan allows students to divide their full year costs into a maximum of 10 equal payments beginning in July.

Deferral of Payment to Financial Aid

Students expecting state or federal financial aid may defer payment of their tuition and fees against such aid, provided they have completed the application process with the Financial Aid Office. Complete information on financial aid is described in the following section.

Withdrawals and Refunds

The liability for some tuition, fees, and charges may be partially reduced or payment refunded, as authorized by SUNY regulations, to students who have permission to withdraw from the college. A refund schedule is printed in each Schedule of Classes and may be obtained from the Office of Student Accounts.

Refunds of Room and Board

Once a student registers for and occupies a residence hall room, the minimum liability will be 50 percent of the semester's room rent. If a student is released from a residence hall contract or withdraws from college before the mid-point of the semester, half of the room rent could be refunded. After the mid-point, no refund would normally be made. Food service liability may also be reduced or payment refunded proportionately.

Refunds must be requested in writing to the Office of Student Accounts not later than one year following the date when payment was made.

Veterans and Students Receiving Social Security Benefits

Veterans and children of veterans eligible for educational benefits under the GI Bill must file the necessary forms with the certifying official, HAB 204. They must be matriculated to be eligible for benefits. Further information, including regulations governing benefits for summer session attendance, are available from the certifying official.

Students receiving Social Security benefits must register for 12 credits a semester (or 6 credits during the

summer session) to receive full-time benefits.

Financial Aid

Financial Aid is any grant, loan, or paid employment offered to help a student meet his/her college expenses. Such aid is usually provided by various sources such as federal and state agencies, colleges, high schools, foundations, and corporations. The amount of financial aid that a student receives is determined through federal, state and institutional guidelines. Grants include aid the student receives that need not be repaid; loans must be repaid. Interest rates and repayment terms vary by program. Employment is aid based on an hourly rate for work performed. The "Program Section" outlines the various programs available in each category.

How to Apply

Students must file the Free Application for Federal Student Aid (FAFSA) each year as soon as possible after January 1. Although parents' information may be required, it is the student's responsibility to complete all application requirements for all aid programs. NOTE: Students must be sure to indicate "SUNY-College at New Paltz" in the college release section of the FAFSA, code # 002846.

The FAFSA is the form used to apply for Federal Pell Grants, Federal Stafford Loans, and the three "Campus Based" programs. They are Federal Supplemental Educational Opportunity Grants, Federal Perkins Loan, and Federal College Work Study Program.

Students applying for Educational Opportunity Program (EOP) admissions will be sent additional information requests from the Financial Aid Office if appropriate and necessary.

New York State residents must file a separate TAP application and mail it in the envelope provided to HESC in Albany.

Once the FAFSA has been completed, it should be mailed in the envelope provided. After submission, the student will receive a SAR (Student Aid Report) which indicates eligibility for Pell Grant and the expected family contribution. Submit the SAR to the financial aid office as soon as possible. The College

will then review the SAR to determine eligibility for all Federal aid programs and to request, if necessary, additional documents to verify information.

Availability of Funds

The Campus Based programs are extremely limited sources of aid. To ensure complete consideration for these programs it is very important to file the FAFSA as soon as possible after January 1. Applications are considered based on a combination of need and the date the campus receives the FAFSA and any required documentation.

Eligibility and Costs

Eligibility for most aid is based on "financial need." (The unsubsidized Stafford Loan and Parent Loan are not need-based.) Briefly, need is the difference between the cost of attendance and a family's ability to contribute to those costs. Fixed costs are those billed by the college while estimated costs are those a student can reasonably expect to pay during the year. The total fixed and estimated costs are used to determine the total amount of aid a student may receive from all sources. Costs of attendance are as follows:

ESTIMATED 1997-98 COSTS FOR A DEPENDENT STUDENT LIVING ON OR OFF CAMPUS

\$3,400	Tuition*
25	College Fee
137	Health Insurance (optional if covered)
150	Activity Fee
100	Health Fee
90	Athletic Fee
60	Technology Fee
60	Parking Fee
	Total Fixed Costs \$ 4,022

\$ 700	Books and Supplies
2,060	Board
2,990	Room
900	Personal
600	Transportation
	Total
	Estimated Costs \$ 7,250

Total Fixed & Estimated Costs \$11,272

* Graduate Tuition - add \$1,300.

Satisfactory Progress

Federal Aid

To be considered for any TITLE IV federal financial aid, students must meet the college's guidelines on

Satisfactory Progress toward the degree. The following chart may be helpful in determining the number of academic credits that full-time students must successfully complete toward the degree according to the number of full-time years completed:

Full-Time Years Completed						
	1	2	3	4	5	6
Credits to be Successfully Completed For Baccalaureate	9	30	54	78	102	122+

The successful completion of credits according to this chart will allow a full-time student six full-time years to complete a 122 or more credit hour baccalaureate degree. The number of credits to be completed is pro-rated for students attending one or more semesters as a part-time student.

Some of the circumstances that may adversely affect a student's Satisfactory Progress toward a degree include: withdrawals from college or courses, incomplete grades, failed courses or repeated courses.

Please refer to the full text of the guidelines outlined in the document "Good Academic Standing and Satisfactory Progress Standards for Receipt of TITLE IV Aid." This document is available in the Financial Aid Office, the Office of the Vice President for Academic Affairs and the Graduate School Office.

New York State Aid

Students receiving New York State grant awards are required to maintain Satisfactory Progress and Program Pursuit according to the chart below. Satisfactory Progress is defined as accruing a minimum number of credits with a minimum grade point average before being certified for the next payment (lines #2 and #3). Program pursuit is defined as the ability to complete a minimum number of credit hours before being certified for the next payment (line #4).

1 Before being certified for this payment	1	2	3	4	5	6	7	8
2 A student must have accrued at least this many credits	0	3	9	18	30	45	60	75
3 With at least this grade point average	0	.5	.75	1.3	2.0	2.0	2.0	2.0
4 Credits to be completed since previous award	0	6	6	9	9	12	12	12

Special Student Categories

Transfer Students

Campus Based programs do not transfer from one college to another. Other aid programs, however, may be transferable. In either case, students planning to transfer should contact their current financial aid office and request that a financial aid transcript be sent to the new college and inquire about the transferability of their aid. All transfer students should follow the application process as outlined in the "How To Apply" section.

Foreign Students

U.S. citizen or permanent resident visa students are eligible for federal and state aid. A student must be certain to indicate his/her visa type on the FAFSA. It may be necessary to submit documentation of eligibility to the Financial Aid Office.

Graduate Students

Graduate students are eligible to apply for Federal Perkins Loan, Federal Stafford Loan, and Federal College Work Study. Additionally, there are several graduate assistantship opportunities available. All programs for graduate students are outlined in the "Program Section."

Programs

Where any question of eligibility exists, the student or prospective student should see a financial aid counselor.

Grants and Scholarships

The Federal Supplemental Educational Opportunity Program Grant (FSEOG)

FSEOG is a federal grant awarded by the college to matriculated undergraduate students with exceptional need. It is a Campus Based program and the awards may range from \$100 to \$4,000 per year, depending on funding. A student may receive FSEOG for the period required to complete a first baccalaureate degree. The FAFSA is used to apply.

Federal Pell Grant

This is a federal grant entitlement program. Eligibility is based on need and the applicant must be a matriculated undergraduate enrolled at least half-time (six credits). The awards range from \$100 to \$2,700 per year, depending on funding. The FAFSA is used to apply. Upon application the student receives three copies of a Student Aid Report (SAR). To receive

an award, the SAR should be submitted immediately to the Financial Aid Office, along with any required documentation.

Educational Opportunity Program (EOP)

EOP is a grant program for New York State residents who are academically and economically disadvantaged as determined by the campus. Students must be full-time matriculated undergraduates. Awards are based on need and may range up to \$2,800 per year. The FAFSA and SUNY Admissions Application are used to apply. See the Admissions section under EOP for more information.

Tuition Assistance Program (TAP)

TAP is a New York State grant entitlement program for residents of the State. Applicants must be enrolled full-time and matriculated in an approved New York State postsecondary program. Awards range from \$100 to \$3,085 for undergraduates and \$100 to \$550 for graduate students. Applications are available around April 1 in all college financial aid and high school guidance offices. They must be filed each year as soon as possible after April 1 with the New York State Higher Education Services Corporation in Albany. The TAP application is also used to apply for other New York State grant programs and scholarship awards.

New York State Aid for Part-Time Study (APTS)

APTS is a grant program for undergraduate students enrolled for between three and eleven credit hours per semester. Students must be matriculated. Awards are based on need and may cover up to full tuition. Applications are available from the Financial Aid Office around April 1.

College Sponsored Scholarships

New Paltz has a modest scholarships and awards program. Most of the awards are given to continuing students (students who are currently enrolled at New Paltz). However, there are some scholarships available to freshmen or transfer students who are graduates of an Ulster County high school or Ulster County Community College. There are also a few scholarships for incoming freshmen who currently reside in the mid-Hudson region. For additional details related to these scholarship programs, contact your high school guidance counselor or the Office of Admissions at New Paltz. Request information on either the Joseph Y. Resnick scholarships (Ulster County,

freshmen or transfer), Mildred and Louis Resnick scholarships (mid-Hudson region, freshmen), Peg Leg Bates (entering minority students), or the Bertha Herwig Connelly Memorial Scholarship Fund (Ulster County, major in education). Additional information about the latter can be obtained by contacting the Dean of Education at New Paltz. In general, recipients are chosen on the basis of academic performance and/or financial need. Information and application forms for continuing student scholarships and awards are available in the offices of all academic departments and in the Office of Financial Aid during the months of February and/or March. The following is a list of scholarships and awards offered:

Bernard Aratowsky Memorial Scholarship
 Art History Award
 Martha V. Barnett Award
 Peg Leg Bates Scholarship
 Jean Claude Belot Scholarship
 Thomas and Marie Bell Scholarship
 Arthur Bruce Bennett Scholarship
 Ruth Bennett Scholarship
 Mary Gallagher Burke Scholarship
 New Paltz Christian Center Scholarships
 Cary Coffing Memorial Scholarship
 Communications Major Scholarship
 Bertha Herwig Connelly Memorial Scholarship
 Stephen Jay Egemeier Memorial Scholarship
 Craig Evans-Alex Mims Memorial Scholarship
 Charles Geibel Memorial Scholarship
 Simon and Evelyn Gluckman Scholarship
 William Haggerty Scholarship
 Marion Harding Scholarship
 Ellen E. Harvey Scholarship
 Ruth Mack Havens Scholarship
 Erna Lynne Heyer Memorial Scholarship
 Holt-Riley Award
 Eugenio Maria de Hostos Scholarship
 Yetta Jacowitz Howitt Scholarship
 Herbert L. Kammerer Memorial Scholarship
 Martin Luther King Scholarship
 Gerald Lazar Memorial Scholarship
 Simone Lester Memorial Scholarship
 Alex Minewski Memorial Scholarship
 Minority Recruitment Program Scholarship
 Paul F. Murphy Memorial Scholarship
 Nursing Alumni Scholarship
 Brian Parsons Scholarship

Ailsa Reid Memorial Scholarship
 Joseph Y. Resnick Scholarship
 Mildred and Louis Resnick Scholarships
 Mark Silver Award
 Harold C. Storm Scholarship
 Student Christian Center Scholarship
 Vincent Tomaselli Award
 Constance Von Wock Scholarship

Loans

Federal Perkins Loan

The Perkins Loan is a campus-based program available to matriculated graduate and undergraduate students enrolled at least half-time. Amounts which may be borrowed are: \$3,000 per year as an undergraduate up to \$15,000 total. An additional \$15,000 may be borrowed toward graduate study. The total undergraduate and graduate amounts may not exceed \$30,000. The current interest rate is five percent; however, principal and interest payments do not begin until nine months after the student ceases to be enrolled at least half-time. Loans are awarded based on need. The FAFSA is used to apply.

Federal Stafford Loan

This is a federally subsidized loan program that enables students to borrow money from another bank or lending institution. A student must be enrolled at least half-time (6 credits) and matriculated (accepted in a degree program) or involved in a certification program. All students must complete a FAFSA and demonstrate need for this program. Need is based on the cost of attendance, a family's expected contribution and other aid a student may be expected to receive. Undergraduate freshmen can receive up to \$2,625 a year; sophomores can receive up to \$3,500; juniors and seniors can receive up to \$5,500 a year. The maximum total amount that an undergraduate student can receive is \$23,000.

Graduate students can receive up to \$8,500 a year. The maximum total amount a graduate student can receive (including undergraduate loans) is \$65,500.

The variable annual interest on a Stafford Loan cannot exceed nine percent. There are no interest payments while a participant is a student and for six months thereafter. There is a five percent origination fee and up to a three percent insurance fee on the amount borrowed.

Repayment begins six months after a student ceases to be enrolled at least half-time. The minimum monthly payment on the loan is \$50 and, depending on the amount borrowed, the total must be repaid within five to ten years.

Federal Stafford Loan Unsubsidized

After October 1, 1992, students may qualify for an unsubsidized Stafford regardless of need. "Unsubsidized" means that the student is responsible to pay interest on the loan while in school. Borrowing limits for any combination of regular Stafford and/or unsubsidized Stafford Loans remain as aforementioned by class year for dependent students. However, independent students may borrow additional unsubsidized loan amounts above class year levels as follows:

Freshmen	\$ 4,000 per year
Sophomores	\$ 4,000 per year
Juniors and Seniors	\$ 5,000 per year
Graduate students	\$10,000 per year

Parent Loans for Students (PLUS)

Parents of financially dependent undergraduate students are eligible to apply for PLUS.

Applications are available at participating lending institutions. Parents may borrow up to the cost of education minus other aid. The annual interest on a PLUS will not exceed 10 percent. Repayment of the amount of the loan plus interest begins two months after the loan is received. The minimum monthly payment is \$50.

Work

Federal College Work Study Program (FCWSP)

The FCWSP provides jobs for matriculated students enrolled at least half-time. Employment is on or off campus and students are paid \$5.15 or more per hour. Part time hours may range up to 20 hours per week while the student is in school and up to 40 hours per week during periods such as summer. The FAFSA is used to apply.

General Employment

In addition to the FCWSP, there are other part-time employment opportunities available to students. Opportunities exist both on and off campus. Students interested in obtaining employment while enrolled, should contact the Financial Aid Office.

Other Programs

Graduate Opportunity Tuition Waiver Program (former EOP, HEOP, SEEK Students)

Former undergraduate students who were enrolled in "Opportunity" programs may be eligible for a partial or full tuition waiver for full-time matriculated study. This is a New York State sponsored program. The application procedure includes: proof of undergraduate enrollment in an educationally disadvantaged opportunity program; TAP application; FAFSA and Graduate School admissions application. The Financial Aid Office must be notified of your interest in applying.

Veterans Administration (VA) Educational Benefits (GI BILL)

A veteran must have at least 181 days continuous active duty service, any part of which occurred after January 31, 1955, and before January 1, 1977. Application forms, information and assistance in applying for benefits are available at all VA offices.

Post-Vietnam Era Veterans Educational Assistance

This is a voluntary contributory matching program for persons entering service after December 31, 1976. Applications are available at all VA offices.

Vietnam Veteran Tuition Awards (VVTA)

This New York State award provides up to \$500 per semester (full-time attendance) or \$250 per semester (part-time attendance) to undergraduate matriculated Vietnam veterans. Awards cannot exceed tuition (including TAP). Applicants must be New York State residents on April 20, 1984, or at the time of entry into service and resumption of residency by September 1, 1987. They must also have served in the U.S. Armed Forces in Indochina between January 1, 1963 and May 7, 1975. Applications are available from the Financial Aid Office.

Vocational Rehabilitation

Eligibility for vocational rehabilitation services is based upon: (1) the presence of a physical or mental disability which for the individual constitutes or results in a substantial handicap to employment; and (2) the reasonable expectation that vocational rehabilitation services may benefit the individual in terms of employability. Handicapped persons may obtain a list

of local Office of Vocational Rehabilitation (OVR) offices from: Office of Vocational Rehabilitation, New York State Education Department, Albany, NY 12234. The blind are served by the Commission for the Blind and Visually Handicapped, State Department of Social Services, 40 North Pearl Street, Albany, NY 12243.

Student Aid to Native Americans

This is a New York State Grant program available to applicants who are residents of the State and on an official tribal roll of a New York State tribe or the child of an enrolled member of a New York State tribe. The award is \$1,100 per year. Applications are available from the Native American Education Unit, New York State Education Department, Albany, NY 12230. They must be filed by August 1 of the academic year of proposed enrollment.

Higher Education Assistance Program

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. Application forms may be obtained from the Bureau of Indian Affairs.

Rights and Responsibilities

Depending on the type of aid received, students must meet the following general requirements to continue their eligibility. Specific program requirements are outlined in the applications.

- Meet satisfactory progress guidelines.
- Be in good academic standing.
- Not be in default of any prior student loan.
- File application(s) annually.
- Notify the Financial Aid Office, bank or lending institution or any agency that offers any type of aid of any change in enrollment status, financial circumstances, change of address or any other information as required by the aid program.
- Not be in default on any loan offered by the college.
- Not owe a repayment on any awards paid.

The State University of New York at New Paltz seeks to enroll a student population which is representative of the global society within which our graduates will live and work. Admission to the State University of New York at New Paltz will be based primarily on the applicant's academic credentials. Admission is granted without regard to sex, age, religion, race, color, national origin, handicap, sexual orientation or marital status.

Freshman Admission

Admission to New Paltz is very competitive. Primary consideration will be given to the candidate's academic preparation. Because the number of applications vastly exceeds the number of available places in the freshmen class, a rigorous selection process is necessary. Thus candidates are expected to have followed a challenging program in high school.

The general requirements for consideration for admission are as follows: 1) Graduation from an accredited high school or its equivalent as shown by examination. 2) Candidates are expected to present evidence of academic achievement in a traditional college preparatory program (in NYS a Regents program), typically consisting of: four years of English; three-four years of social studies/history; three-four years each in college preparatory mathematics, laboratory science, and foreign language. Students who have opted for a more challenging scholastic program will enhance their admission options. 3) Submission of either SAT I or ACT examination results (scores reported may be submitted directly from the testing agency or as part of the high school transcript).

New Paltz does not require a supplemental or part-two application form. However, candidates are expected to enhance their application by providing a variety of additional information, to include, but not limited to, senior mid-year grades; recommendation from guidance counselor or college advisor; resume of school/community activities, honors, awards, leadership positions; and evaluative statements from academic

teachers. These materials should be sent directly to the New Paltz Office of Admissions.

Early Decision Option

New Paltz participates in the Early Decision option program. This is an early application, early notification opportunity for candidates who have made New Paltz their single college choice.

The Early Decision application deadline is November 15; the candidate notification date is December 15; the candidate response deadline is January 15.

Transfer Admission

New Paltz welcomes qualified candidates for transfer admission from accredited two- and four-year colleges and universities. Transfer candidates must present a competitive grade point average for ALL previously completed accredited college work for consideration for admission. For those academic majors with a high school enrollment, a higher grade point average may be required, as well as the submission of additional information. Transfer candidates in good academic standing with fewer than 24 liberal arts credits must submit, in addition to the official college transcript, an official high school transcript and SAT I or ACT exam scores.

Transfer Articulation Agreements

New Paltz has developed detailed transfer articulation agreements with the following community colleges: Columbia-Greene, Dutchess, Hudson Valley, Orange, Rockland, Sullivan, and Ulster. These agreements cover a broad range of transfer programs and are designed to assist community college students in determining course equivalency toward the major. Candidates transferring from these articulated colleges with an Associate in Arts (AS) or Associate in Science (AS) degree are guaranteed admission to New Paltz, though not necessarily to the major of choice. When accepted into a parallel program at New Paltz, these candidates are accorded full junior year status with the potential to complete their degree requirements with four additional semesters of

successful full-time study. An explanation of these articulation agreements is noted in the guide, "The Door is Open," available at the community colleges or the New Paltz Office of Admissions.

Additionally, New Paltz has transfer agreements in the social sciences with both Bergen Community College and Sage Junior College of Albany, in business administration and journalism with Morrisville, and in communication arts with Finger Lakes Community College. Copies of these agreements are available from the participating college or the New Paltz Office of Admissions.

Evaluation and Awarding of Transfer Credit

The evaluation of previous college credit is provided to accepted candidates who have indicated their intention to enroll at New Paltz through payment of the Pre-Enrollment Deposit (PED). Should the evaluation be needed in order to make an enrollment decision, candidates should contact the Office of Admissions as soon as possible.

New Paltz allows for the transfer of a maximum of 70 academic credits from a two-year college and a maximum of 90 academic credits from a four-year college or a combination of two- and four-year colleges. A maximum of 30 credits of non-liberal arts course work may be awarded in transfer. Developmental course work, as well as some religious course work, may not be transferable. Students earning an AA or AS degree from a SUNY or CUNY community college are considered to have met New Paltz's General Education requirement. No credit will be awarded at the point of enrollment for credits earned at institutions which are not accredited by a regional accrediting agency of the American Council of Education.

New Paltz will award credit for any course with a grade of "C" or better. Grades of "D" are only considered if balanced by substantial academic achievement in all other course work. Grades of "D" are not applicable toward major requirements.

Academic credit for the major is awarded by the individual academic department.

A maximum of 15 non-liberal arts credits may be awarded to candidates who have taken course work within government agencies, industry, the armed services or other non-collegiate settings. A request for review of such course work, supported by appropriate documentation, should be addressed to the New Paltz Transfer Coordinator.

Other Admissions Options

Educational Opportunity Program

The Educational Opportunity Program (EOP) is the New York State program designed to assist candidates who do not possess the general admissions requirements yet who show promise and potential for academic success as evidenced through a variety of scholastic indicators. This program is open to New York residents only. Additionally, candidates must demonstrate financial need as specified by the policies governing the program. Candidates accepted through EOP are provided with financial and academic support to aid in their academic success.

To be considered for the EOP program, freshmen candidates must:

- Provide evidence of graduation from an accredited high school or its equivalent as shown by examination.
- Indicate "EOP" on the SUNY common application.
- Submit an official high school transcript and results of SAT I or ACT exams.
- Submit the New Paltz EOP Student Information Form.
- Submit the New Paltz EOP Student Financial Eligibility Form.
- Submit the Free Application for Federal Student Aid (FAFSA).

No application will be considered for review until all materials are received by the Office of Admissions.

Transfer candidates must provide official transcripts of all previous college work and must submit the New Paltz EOP Confirmation Form in addition to the last three items noted above.

Seven Year Medical Program with NY College of Osteopathic Medicine

The seven year medical program with New York College of Osteopathic Medicine is available to entering freshmen, first semester New Paltz students, and transfer students with less than 24 academic credits.

Candidates must first be admitted to New Paltz following the regular admissions criteria. Candidates must use APC code 1112 on their application and apply by January 15 to be considered for the seven year program. The basic criteria for consideration for this program are:

- A high level of achievement in an academic program, with a strong emphasis in the laboratory sciences. A high school average of 90 is necessary for consideration.
- SAT I score of at least 1150 or ACT score of at least 27.
- Submission of an essay regarding the candidate's interest in osteopathic medicine.
- Participation in an interview with the Seven Year Medical program admissions committee.

Seven Year Optometry Program with SUNY College of Optometry

The seven year optometry program with the SUNY College of Optometry is only available to entering freshmen and first semester students at New Paltz. Candidates must first be admitted to New Paltz following the regular admissions criteria.

Candidates must apply by February 15 and must indicate APC code 0083 on the application. The basic criteria for consideration are:

- A high level of achievement in an academic program, with a strong emphasis in the laboratory sciences. A high school average of 90 is necessary for consideration.
- SAT I score of at least 1150 or ACT score of at least 27.
- Submission of an essay regarding the candidate's interest in optometry.
- Participation in an interview with the Seven Year Optometry program admissions committee.

Fine and Performing Arts Candidates

Art and Art Education

All fine arts and art education candidates must first be admitted to the university on the basis of their academic credentials.

To enroll in the fine arts or art education programs at New Paltz, the submission of a portfolio is necessary. The portfolio is primarily used for placement within the fine arts or art education program, placing students according to the strengths of their artistic capabilities. Detailed information about the portfolio, as well as the required Portfolio Submission Form, are available in the document "Placement in the New Paltz Undergraduate Art Program," available from the Office of Admissions.

Transfer candidates to the fine arts and art education programs receive, in addition to non-major credit, major credit for course work whose content is commensurate with New Paltz art courses and for which a grade of "C" or better is received. In addition to the submission of the portfolio and the required Portfolio Submission Form, transfer candidates must submit directly to the art department a copy of their previous college transcript. No major credit will be awarded without this transcript.

Art credit for required foundation courses is regularly awarded on the basis of the transcript alone, up to a maximum of 12 credits. Major credits above that number are awarded by the faculty of the appropriate studio discipline, for which pre-registration consultation is required. At this consultation, candidates are expected to show at least five examples of work produced in each course for which credit is sought.

Music and Music Therapy Candidates

All music and music therapy candidates must first be admitted to the university on the basis of their academic credentials. To enroll in the music or music therapy programs, candidates must participate in an audition/interview with the music department. The music audition is used primarily for placement purposes.

Theatre Arts and Scenography Candidates

All theatre arts and scenography candidates must first be admitted to the university on the basis of their academic credentials. To enroll in the theatre arts or scenography programs, candidates must participate in an audition/interview with the theatre arts department. The theatre audition is used primarily for placement purposes.

Multicultural Recruitment Program Candidates

New Paltz is committed to the recruitment of Asian-Pacific, African-American, Latino, and Native American students. The New Paltz Multicultural Recruitment Program (M.R.P.) attempts to provide these students with the necessary advisement and support for the achievement of academic success. Central to this mission is the MRP Mentorship program, which provides each student with a carefully selected faculty or staff member who will serve as their mentor throughout their college career.

Early Admission

Many talented high school students possess the maturity and ability to begin their college studies at the conclusion of their junior year of high school. For these students, New Paltz provides the opportunity for early admission.

Candidates for early admission must use APC code 0199 and must meet the same general admission requirements as all freshmen candidates. Additionally, a recommendation from the guidance counselor attesting to the candidate's readiness for college is required. It must be noted that arrangements to fulfill the requirements for the high school diploma must be arranged between the student and high school officials.

Second Degree Candidates

An individual who has already attained a bachelor's degree is considered a Second Degree candidate and must apply as a transfer student following the transfer admission guidelines.

The policy for admission as a Second Degree candidate is as follows:

1. The intended major of the second degree must be substantially different from the first degree so as to constitute a new discipline.
2. Second Degree candidates receive a maximum of 90 credits in transfer and are considered to have met all lower

division requirements for the second bachelors degree.

3. Credits earned in the context of the first degree may not be applied to the major of the second degree.
4. Second Degree candidates must complete all of the major as determined by the chairperson of the department.
5. The candidate must also complete a Writing Intensive course.
6. A residency requirement of 30 credits is mandatory.

Questions regarding Second Degree should be directed to the Transfer Coordinator, Office of Admissions.

International Applicants

New Paltz welcomes applications from international students. As admission to New Paltz is competitive, only candidates who have completed secondary education programs with acceptable records are considered for admission. Candidates must submit an original set of academic credentials, results of the Test of English as a Foreign Language (TOEFL) exam, if applicable, all required application forms, and must also demonstrate to the United States Consul in their home country that they can adequately finance their entire education in the United States. The application deadline for fall entrance is April 1, the deadline for spring admission is October 1. Applications for international admission may be obtained from the Office of International Admissions.

Readmission to New Paltz

Students who have officially withdrawn or who have been dismissed from New Paltz may apply for readmission to the university. Application deadlines are August 1 for the fall semester and December 10 for the spring semester. Applications received after these deadlines will be automatically deferred to the next semester.

Students who were academically dismissed from New Paltz may not apply for readmission until at least one semester has elapsed. It will be necessary for such students to show a minimum of 12 liberal arts credits, taken at another accredited college, with a minimum of a 2.5 grade point average. Students who are readmitted will be required to meet the degree requirements in effect at the time of readmission.

Visiting Student Program

Students enrolled at other accredited colleges and universities may enroll at New Paltz as visiting students for a maximum of two consecutive semesters. Visiting student candidates must have a minimum of a 2.50 grade point average and must demonstrate good disciplinary standing at their home campus. It is the student's responsibility to determine the applicability of financial aid and course work taken at New Paltz with their home campus.

Deferred Admission

Accepted candidates may defer the admission for up to one academic year. The request to defer must be made in writing to the Office of Admissions. Academic work done at another collegiate institution during the deferred period may result in a change in the original admission decision.

How to Apply

New Paltz participates in the SUNY Common Application program. Applications are available in all New York State high school guidance offices and in all community college transfer offices. An application can also be obtained by contacting the New Paltz Office of Admissions directly:

Office of Admissions
Haggerty Administration 405
SUNY New Paltz
75 S. Manheim Blvd. Suite 1
New Paltz, NY 12561-2499

It is the candidate's responsibility to ensure that all necessary documentation, official transcripts, SAT I or ACT scores, recommendations, college transcripts, etc., be received in a timely fashion at the New Paltz Office of Admissions.

New Paltz only accepts applications for the Fall and Spring semesters.

The Application Decision

New Paltz makes freshmen and transfer admissions decisions on a rolling basis. Fall semester applicants (except Early Decision candidates) will receive notification of the admissions decision beginning in January. Spring applicants will receive notification beginning in October.

All admissions decisions are provisional and are only made final when documents of the successful completion of high school or college

work is received by the Office of Admissions. It is the candidate's responsibility to ensure that such documentation is sent and received.

Candidate's Reply Deadline

New Paltz subscribes to the National Candidate's Reply deadline. This applies only to freshmen and transfer candidates accepted prior to April 1 for the Fall semester. Accepted candidates are expected to respond to the offer of admission no later than May 1. This would include both the payment of a deposit to secure a place in the class or notification to the college that the student will not be attending. Candidates accepted after April 1 or who have applied for the Spring semester must respond within 30 days of receipt of their acceptance notification.

Deposits

New Paltz requires a Pre-Enrollment Deposit (PER) of \$100.00, which will be applicable to the cost of tuition. If the candidate will reside in college housing, an Advance Room Deposit (ARD) of \$50.00 is required. Both deposits are refundable in accordance with SUNY Board of Trustees policy.

Visit the Campus

Prospective candidates and their families are encouraged to visit New Paltz. The Office of Admissions hosts both group information sessions and individual interviews, as well as student-guided tours of the campus. Appointments are necessary. For more information, contact the Office of Admissions.

New Student Orientation, Advisement, and Registration

The Freshmen Program

New Student Orientation for incoming freshmen is held in July for Fall entrants and January for Spring entrants. Each session lasts two and one-half days and involves extensive academic advising, academic scheduling, an in-depth discussion of New Paltz's academic expectations and requirements, information on student services, residence life, and more. The orientation sessions are offered by a dedicated staff of professionals and faculty and specially selected upper-class orientation assistants. Each of these individuals is available at Orientation to assist both students and

parents in the quest to learn more about New Paltz and how to make the transition to college life more successful. An important aspect of Orientation is the opportunity for students and parents to meet their fellow classmates and parents. Information on Orientation is sent to each accepted student well in advance of the program in order to provide ample scheduling time. For information, contact the Center for Student Development, (914) 257-3088.

The Transfer Program

The Center for Student Development, the Career Advising and Fieldwork Center and the Office of Student Advising conduct initial academic advising/registration/orientation programs for new transfer students. These sessions are offered on selected dates throughout May, June, July and in late August for Fall entrants and in December and late January for Spring entrants. During these sessions, a comprehensive academic orientation program is provided which includes information on major declaration, placement testing, course selection, evaluation of prior credits, and graduation requirements. Major advisors are available on these days to meet with students and establish the comparability of prior course work toward the major and to help plan the student's complete academic program. Registration for courses occurs at the conclusion of the session. A view of student services for transfers is also part of the program and includes such areas as financial aid, residence life, meal plans, computer services, the bookstore, parking registration, and student activities.

The State University of New York at New Paltz offers courses of study in education, the fine and performing arts, and the liberal arts and sciences leading to the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Fine Arts. Professional programs in business administration, nursing, electrical engineering are also available. Students interested in teaching careers may pursue programs that lead to provisional certification to teach in the public schools of the State of New York in art education, elementary education, secondary education, and speech and hearing education. While the curriculum offerings are designed to give degree candidates maximum flexibility in devising a rich and comprehensive program, each candidate must meet the general college requirements in order to qualify for an undergraduate degree.

The Academic Structure of the College

The State University of New York at New Paltz is divided into four distinct instructional units as follows:

1. The School of Education is the responsibility of the Dean of the School of Education.
2. The School of Engineering and Business Administration is the responsibility of the Dean of the School of Engineering and Business Administration.
3. The School of Fine and Performing Arts is the responsibility of the Dean of the School of Fine and Performing Arts.
4. The College of Liberal Arts and Sciences is the responsibility of the Dean of the College of Liberal Arts and Sciences.

Degree Requirements

The following are the degree requirements for students who matriculated* at the college as freshmen in the Fall of 1993 and after and for students who entered as transfers in the Fall of 1994 and after.

1. Completion of a minimum of 120 academic credits. A few programs may require more than 120 credits to complete.
2. Completion of the General Education Program. Students who matriculated* prior to Fall 1993 and transfers who matriculated* prior to Fall 1994 are subject to an earlier General Education Program (see "The Advising Handbook" for details) unless such students choose to complete the current General Education Program. Students may not graduate under college-wide requirements obsolete more than ten years.

TRANSFER STUDENTS WHO HOLD AN ASSOCIATE OF ARTS OR ASSOCIATE OF SCIENCE DEGREE FROM A CUNY OR A SUNY COMMUNITY COLLEGE ARE CONSIDERED TO HAVE SATISFIED THE REQUIREMENTS OF THE GENERAL EDUCATION PROGRAM.

Verification of the award of such a degree must be submitted to the Office of Admissions no later than the mid-point of the second semester of attendance at New Paltz. In the absence of timely verification, the General Education requirements will not be considered met, and a course-by-course evaluation of transfer credit will be made. Issues regarding this policy should be referred to the Office of Admissions. A.A. and A.S. degrees from other New York State Community Colleges and out-of-state community colleges will be assessed on an individual basis, and appropriate credit granted for courses applicable to New Paltz General Education requirements.

3. Completion of a minimum number of liberal arts credits as required by the specific degree (see Liberal Arts Requirements).
4. Completion of a minimum of 45 credits in upper division courses.
5. Completion of a minimum of 30 degree credits in residence. Of these 30 credits, the final 15 credits towards the degree must be in residence.
6. A minimum cumulative average of "C" (2.00 on a 4.00 grading scale).

7. A demonstrated proficiency in basic algebra.

8. Completion of a major and the applicable curriculum requirements. One-half of the student's major must be taken at New Paltz. Students will be expected to fulfill the major requirements that are in effect at the time of the declaration of their major. No student may graduate under major requirements obsolete more than eight years.

9. Completion of a "Writing Intensive" course taught at New Paltz.

** Matriculation: This definition of student status pertains to the first semester that a student is registered at the college, either full or part-time, after formal admission to the college.*

General Education Program

Goals

The faculty of the State University of New York at New Paltz has designed the General Education Program to insure that its students acquire the academic skills and share in the areas of knowledge which should be the intellectual property of all college graduates. The aim of the General Education Program is to encourage students to develop an appreciation of the value of learning for its own sake and to pursue the broader goals of mature self-understanding and comprehension of their world.

The General Education Program continues and reinforces the strong tradition of liberal learning at New Paltz. It emphasizes a curriculum that complements a mastery of those major programs that lead to professions, careers, and other specific goals. Looking beyond the immediate application of learning, the General Education Program seeks to provide an enduring foundation of basic general knowledge, an awareness of how more advanced knowledge is acquired and integrated, and an enhancement of a student's ability to analyze, evaluate, and communicate that knowledge to others. The program focuses on specific intellectual skills as well as providing a breadth of experience in many areas of the college curriculum.

All courses designated as fulfilling the requirement have been specifically evaluated and approved by the faculty Curriculum Committee as contributing to the goals of the General Education Program. A list of approved courses will be published each year. The Schedule of Classes will contain a list of general education courses offered each semester. Courses approved for the General Education Program may also fulfill some basic requirements in various major programs.

No more than three courses from a single department or program may be used to fulfill the Distribution requirement.

Courses in the General Education Program used to fulfill General Education requirements may not be taken under the satisfactory/unsatisfactory grading option.

Structure

The General Education Program is organized into three parts: The Basic Skills, The Core, and The Distribution Requirement.

I. The Basic Skills require students to demonstrate college entry-level skills in reading, writing, and basic algebra. To insure that freshmen are ready to enter the College's regular curriculum, students are required to take a series of placement tests unless exemption has been granted. The results of these tests determine a student's level of proficiency in reading, composition, and mathematics. For further details on course work available to students who need to improve their skills in reading, writing, and mathematics, see the section entitled The Basic Skills.

II. The Core requirements help students develop a high order of ability in written communication, critical thinking, and analytic skills. In addition, The Core promotes a general understanding of the forces which have shaped the contemporary world, influence its present state, and are likely to determine much of its future.

III. The Distribution Requirement introduces students to the breadth of human inquiry. Courses in the social sciences help students develop an understanding of human experience by emphasizing the multi-cultural dimensions of human society in general and America's society in particular, the process of human development, and the dynamics of human relationships in social organizations. Throughout the program there is a focus on

non-English speaking cultures and civilizations of the world. An understanding of the natural sciences includes a comprehension of some of the fundamental principles of the natural world, the basic scientific methods that reveal and define those principles, and the relationship of scientific knowledge to the world of practical affairs and public policy. Studies in language encourage a familiarity with cultures other than those of the English-speaking world and promote an understanding of the history, structure, and effective use of both English and foreign languages. The arts and the humanities cultivate an appreciation of the aesthetic experience and the creative process in the arts, as well as a familiarity with many of the enduring masterpieces of world art, music, and literature.

Of the three components of the General Education Program, The Core and The Distribution Requirement comprise the college level academic requirements. Courses taken to complete The Basic Skills requirement are not included in the 120 hours required for graduation.

The total number of credit hours required in the General Education Program may vary according to a student's course selections and the student's major. Specific information is published in "The Advising Handbook".

The General Education Academic Requirements

The Core (16-17 credit hours)

The Core requirement consists of 16-17 credit hours. Entering freshmen are expected to complete the requirement within the first 45 credit hours taken at the college. Students who transferred to the college starting in the Fall of 1994, with at least sophomore standing (30 credit hours or more), but without an Associate of Arts or Associate of Science degree from a SUNY or CUNY institution, are expected to complete the Core requirement by the end of their second semester of registration at the college. Courses approved to fulfill the Core requirement may, if appropriate, be applied toward the requirements of a departmental major.

A. English (6 credit hours):

Courses in written expression help students develop the level of competence in critical writing and

reading that is essential to success in college. The requirement is satisfied by Freshman Composition I and II (41160 and 41180 or 41186). Students demonstrating a high degree of writing ability in the college's English placement test will be given the opportunity instead to enroll in General Honors English (41205, 41206).

Some students may be placed in special sections of Freshman Composition I (41160) or in English as a Second Language course(s).

English as a Second Language does not fulfill the freshman English requirement, but the courses do give the student, who might otherwise experience difficulty in college study, an opportunity to advance his or her writing skills to a level acceptable for freshmen.

No freshman English courses may be taken under the student-elected satisfactory/unsatisfactory grading option.

Students who have not completed the freshman English requirement are required to enroll in a freshman English course during their first semester on campus and remain enrolled in a freshman English course each subsequent semester until both Composition I and Composition II courses are completed with passing grades.

The composition requirement may be fulfilled by examination in accordance with procedures outlined in the advising handbook, "The Advising Handbook".

B. Mathematics/Analytic Skills (6-7 credit hours):

This requirement is designed to insure that all students have minimum college-level competence in the use of symbols and reasoning. Students are required to take one course from a list of mathematics or computer science courses and a second course either from the same list or from a second list containing courses drawn from disciplines that use non-mathematical symbol systems as a means of analysis.

A demonstrated proficiency in basic algebra is a graduation requirement and a prerequisite to all courses in the Analytic Skills category. A placement examination will determine whether a student meets the requirement of proficiency in algebra or must pass the

course Basic Algebra (64050). Students must continuously register in a mathematics course (Basic Mathematics or Basic Algebra) until the Basic Algebra requirement is met.

Proficiency at the level of Precalculus (64152) exempts a student from the Analytic Skills requirement.

C. Modern World Studies (4 credit hours):

It is essential that college students have a clear understanding of the forces which have created the prevailing conditions of the modern world. Courses designed to meet this requirement emphasize the emergence of our present multi-racial, interdependent global society.

The Distribution Requirement (26-35 credit hours)

Students are encouraged to plan their college programs so that courses fulfilling the Distribution Requirement will be taken throughout their undergraduate years. No more than three courses from a single department or program may be used to fulfill the Distribution Requirement.

D. Culture and Civilizations (6 credit hours):

This category builds on the Modern World Studies requirement. Students must take one course from a list of courses that deal with some aspect of Western Civilization from the Ancient period through the Renaissance. Students must also take a course from a second list of courses in Native American, Latin American, African, Middle Eastern, Pacific, and Asian civilizations and cultures.

E. The American Experience (6 credit hours):

Students must take one course from each of two lists. The "United States Studies" list includes a variety of courses on broad aspects of American culture, history, society, and politics. The "Cultural Diversity" list focuses on multi-cultural and multi-ethnic experiences in the United States as they pertain to issues such as gender, race, ethnicity, and religion. Courses in this list emphasize the perspective of the group(s) being studied, contain a significant comparative component in presenting the contributions and experiences of a particular group, and examine the impact of the United States' social systems and institutions,

especially in regard to issues of power and equality.

F. Social Sciences and Modern Society (3 credit hours):

The focus of this category is on contemporary social issues and concerns, although a historical perspective may be part of the treatment of these topics.

G. Physical and Biological Sciences (8-10 credit hours):

Courses in this category introduce students to the processes by which scientific discovery is advanced and to the most recent developments in the sciences. Students may fulfill this requirement by taking two courses in the "laboratory" option (8 credit hours) or by taking three courses in the "non-laboratory" option (9 credit hours). Students may substitute a laboratory course for any course in the non-laboratory option. Non-laboratory courses must be taken in at least two different departments.

H. Foreign Language (3-8 credit hours):

This requirement encourages students to develop the linguistic flexibility and cultural understanding that is achieved through the study of a foreign language. The requirement may be met in one of two ways. Students who begin at the Elementary 1 or Elementary 2 level must take a two-course sequence proceeding from a lower to a higher level. Students who have completed the equivalent of the two-course elementary sequence and place into an intermediate or advanced foreign language course can complete the requirement by taking one course at the intermediate or advanced level.

I. Studies in Aesthetic Expression (6-7 credit hours):

This requirement assists students in cultivating aesthetic awareness and an appreciation of the artistic experience through courses in art, literature, music, film, philosophy, and theatre. Students must take at least two courses and a minimum of six credits in this category. They may apply up to three credits in courses designated "Performance Courses" toward the fulfillment of the requirement.

The Other General Education Requirements

The Basic Skills

Students requiring improvement in the basic skills of reading, writing or mathematics are provided the opportunity to develop college level proficiency in these areas. Developmental or basic skills courses do not carry credit. However, they are counted as part of the student's workload for the purposes of eligibility toward financial aid and full-time status. See Developmental/ Remedial courses for more detail.

The policies and procedures for the improvement of basic skills at New Paltz are outlined below:

Reading Placement

A reading placement test evaluates the student's level of proficiency in terms of speed, retention, and comprehension. Freshmen demonstrating a need to improve their reading skills will be required to register for either the Reading and Study Skills course or one or two Developmental Reading courses. The Developmental Reading courses will be offered in conjunction with regular academic courses and will focus on the development of strategies to succeed in academic courses as well as on enhancing the student's reading proficiency.

Courses which help students achieve proficiency in reading are:

- 30012 Reading and Study Skills
- 30015 Critical Thinking I
- 30016 Critical Thinking II

These non-credit courses are offered through the Learning Resources Center.

English Composition Placement

An English Composition placement test measures the student's understanding and mastery of grammar, mechanics and syntax as well as the ability to compose a well-developed short essay. The compositions are evaluated by the English department faculty. Students demonstrating a high degree of writing ability will be given the opportunity to enroll in General Honors English I and II (41205, 41206). Students with serious deficiencies in writing skills will be required to enroll in special sections of Freshman Composition I (41160). All other students will enroll in regular sections of Freshman Composition sequence (41160, 41180 or 41186).

Mathematics Placement

The mathematics placement tests establish various levels of competency.

Courses which attempt to improve students' skills in mathematics are:

- 30020 Basic Mathematics
- 64050 Basic Algebra

Basic Mathematics is a course taught by the Learning Resource Center while Basic Algebra is taught in the Mathematics department. Both are non-credit courses. Proficiency at the level of basic algebra is a graduation requirement. Students must continuously register in the mathematics course (Basic Mathematics or Basic Algebra) until the Basic Algebra requirement is met.

General Education Program Waivers and Exemptions

SUNY/New Paltz has established variations and waivers of some requirements of the General Education Program for students who graduate in specific academic programs. Elementary Education students and Secondary Education students with a major in science (Biology, Chemistry, Earth Science, Physics) are entitled to a waiver of up to nine credits in the Distribution Requirement. The Nursing program and the Music Therapy program have more elaborate systems of waivers and substitutions. Students in those majors should consult the department.

Entering transfer students may also be eligible for a waiver of General Education credits in the Distribution Requirement. Students who transfer 45 credits at the time of their admission may waive three General Education credits; students with 60 transfer credits may waive six credits; students with 75 or more credits may waive nine G.E. credits.

Programmatic and transfer waivers may be applied only to three credit courses. The waiver may not be applied to courses in the Core. It may be applied to any other general education courses with the approval of the student's advisor. The total number of credits waived, combining program and transfer waivers, may not exceed nine.

Transfer students who hold an Associate of Arts or Associate of Science degree at a CUNY or SUNY institutions are considered to have satisfied the requirements of the General Education Program. Verification of the award of

such a degree must be submitted to the Office of Admissions no later than the mid-point of the second semester of attendance at New Paltz. In the absence of timely verification, the General Education requirements will not be considered met, and a course-by-course evaluation of transfer credit will be made. Issues regarding this policy should be referred to the Office of Admissions. For students in the Pre-K-6 and 7-12 programs, six credits of foreign language study is required for graduation and certification regardless of whether they have an A.A. or an A.S. degree.

Other transfer students are evaluated on a course-by-course basis at the time of admission to the college. They will be informed in writing concerning the extent of general education credits the college will grant for satisfactory work taken elsewhere.

The General Education requirements for students accepted into and graduating from the Bachelor of Science programs in Electrical Engineering must be met by completion of the specific liberal arts requirement of the Engineering curriculum. The specific liberal arts requirement of the Engineering curriculum must be met by all students graduating with degrees in Engineering, including those students who enter the program as Associate in Arts (AA) or Associate in Science (AS) degree holders. For further information, please contact the Chair of the Department of Engineering.

Students pursuing two degrees simultaneously must fulfill the General Education requirements of both degrees. Similarly, students pursuing one degree with two majors must complete the General Education requirements of both majors.

Foreign Language Placement and Foreign Language Exemption

Students who have never studied a language or who wish to begin a new language will start with the elementary course in that language. Those who seek placement beyond the elementary course will be required to have a placement interview with the appropriate foreign language instructor who will determine what level the student may enter. Students who place into the intermediate level of a language (or higher) may complete the Studies in Language requirement of the

General Education Program by taking one intermediate or advanced course in a foreign language.

Multilingual students may be exempt from the Studies in Language requirement of the General Education Program. Exemption may be granted by the English as a Second Language Office in consultation with the foreign language department. Students who are identified as non-native speakers of English will be exempted from the Studies in Language requirement upon certification by the ESL office, but will be required to demonstrate proficiency in English. Students who demonstrate a need to improve their English language skills will be assigned appropriate ESL courses. Native speakers of English who are proficient in a foreign language and bilingual students will be referred to the foreign language department for verification of proficiency.

Liberal Arts Requirement

Students seeking the Bachelor of Arts degree must earn 90 of the minimum 120 credits necessary for graduation in courses designated as liberal arts. Liberal arts courses are those classified as humanities, social and behavioral sciences, or natural and mathematical sciences. Specialized vocational courses which are professional or technical in nature are excluded.

Students seeking the Bachelor of Science degree must complete 60 credits in courses designated as liberal arts.

Students seeking the Bachelor of Fine Arts degree must complete 30 credits in courses designated as liberal arts.

Students seeking the Bachelor of Science in Art Education must complete 48 credits in courses designated as liberal arts.

Consult the Schedule of Classes or the individual internal student grade transcript to determine the applicability of specific courses in satisfying this requirement.

Upper-Division Requirement

All students are required to complete at least 45 credits in upper-division courses. Courses numbered 300 or above satisfy the upper-division requirement.

Residency Requirement

Each degree candidate must complete at least 30 academic credits, including the final 15 academic credits, in residence.

At least one-half of the credits in a student's major must be taken in courses offered by the State University of New York at New Paltz. In cases where a department chair grants a waiver of this rule, an approved major plan for the student must be filed with the major department by the beginning of the first semester of residence at New Paltz. One-half of the credits taken in the minor must be credits taken at New Paltz.

Transfer credits, credits earned by examination, and Non-Traditional Learning credits are not residency credits.

Minimum Cumulative Average

Each degree candidate must attain a final cumulative grade point average of at least 2.00.

Basic Algebra Proficiency Requirement

A demonstrated proficiency in basic algebra is a graduation requirement and a prerequisite to many analytically oriented courses at the College. A placement examination will determine whether a student meets the requirements of proficiency in algebra or must pass the course Basic Algebra (64050). Students must register continuously in a mathematics course until the Basic Algebra requirement is met.

Major Requirement

Degree candidates must select a major field of concentration in pursuing the degree of their choice. A major consists of a series of courses that provides a coherent academic framework. Students will thus obtain both a broad acquaintance with a field of knowledge and an in-depth understanding of some of its areas of specialization. Through mastery of a major field, students will acquire a basic foundation useful for both graduate study and professional

career choices. One-half of the credits taken in the major must be credits offered by SUNY at New Paltz.

Students must declare their majors prior to registering for their junior year by filing a Declaration of Major form with the Records and Registration Office. Students matriculating in studio art, business, engineering, music, the sciences, and mathematics should complete introductory courses in those fields prior to that time. Incoming transfer students with 30 transfer credits are automatically considered to have declared the major they indicated on their application for admission. The declaration of the major by this procedure does not, however, constitute the acceptance of the student into all major programs. Admission into a number of programs is based on achievements such as demonstration of a specific grade point average, successful completion of specified prerequisite courses, presentation of an acceptable portfolio or an audition. All students are expected to fill out a major plan with their departmental advisors. Students who have earned 60 credits or more will not be permitted to register for additional credits unless and until they have declared their major.

Students are expected to fulfill the major requirements that are in effect at the time of the declaration of their major. They may not graduate under major requirements obsolete more than eight years. A list of registered major programs offered in the departments of the academic units of the college is provided below. The list contains the majors, the options within certain majors, the certification(s) and the degree(s) available to students in each of the majors. The HEGIS Code of each major is also listed. The code indicates how the program is listed on the Inventory of Registered Degree and Certificate Programs maintained by the New York State Education Department. Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain student aid awards.

Writing Intensive Requirement

Students must complete at New Paltz at least one "Writing Intensive" course. These courses will usually be part of the major requirements. The designation of writing intensive courses will be found in the Schedule of Classes.

State University of New York at New Paltz Registered Undergraduate Major Programs

<i>Department</i>	<i>Major</i>	<i>Options Concentrations Tracks</i>	<i>HEGIS Code</i>	<i>Degree</i>
School of Education				
Elementary Education			0802	B.S.
Pre-Kindergarten through Sixth Grade (Pre-K-6)	Anthropology			
	Art History			
	Biology			
	Black Studies			
	Communication			
	Earth Science			
	English			
	French			
	Geography			
	German			
	History			
	Mathematics			
	Music			
	Political Science			
	Psychology			
	Sociology			
	Spanish			
	Theatre Arts			
<hr/>				
Secondary Education (7-12)				
	Biology		0401.01	B.A., B.S.
	Chemistry		1905.01	B.A., B.S.
	Earth Science/Geology *		1917.01	B.A., B.S.
	English		1501.01	B.A., B.S.
	French		1102.01	B.A.
	German		1103.01	B.A.
	Mathematics		1701.01	B.A., B.S.
	Physics		1902.01	B.A., B.S.
	Social Studies		2201.01	B.A., B.S.
	Spanish		1105.01	B.A.
* Teaching Certification and Bilingual Certification Extension Option in majors which are asterisked				
<hr/>				
School of Engineering and Business Administration				
Business Administration	Accounting		0502	B.S.
	Business Administration		0506	B.S.
		Finance		
		International Business		
		Management		
		Marketing		
		Planning & Regional Affairs		
		Pre-Professional Business		
<hr/>				
Engineering	Electrical Engineering		0909	B.S.
	Computer Engineering		0999	B.S.

<i>Department</i>	<i>Major</i>	<i>Options Concentrations Tracks</i>	<i>HEGIS Code</i>	<i>Degree</i>
School of Fine & Performing Arts				
Art Education K-12	Art *		0831	B.S.
	* Teaching Certification			
Art History	Art History		1003	B.A.
Art Studio	Ceramics		1009	B.F.A.
	Graphic Design		1009	B.F.A.
	Metal		1009	B.F.A.
	Painting		1002	B.F.A.
	Photography		1011	B.F.A.
	Printmaking		1009	B.F.A.
	Sculpture		1002	B.F.A.
	Visual Arts		1099	B.A., B.S.
Music	Music	Applied Music History & Literature Theory & Composition	1005	B.A., B.S.
	Music Therapy		1092	B.S.
Theatre Arts	Theatre Arts	General Studies: Performance/Technical/Musical Theatre Advance Training: Performance/Technical/Musical Theatre	1007	B.A., B.S.
	Scenography		1007	B.F.A.
College of Liberal Arts & Sciences				
Anthropology	Anthropology		2202	B.A., B.S.
Biology	Biology	Organismal and Environmental Biology Cell/Molecular Biology and Biotechnology	0401	B.A., B.S.
Black Studies	Black Studies		2211	B.A., B.S.
Chemistry	Chemistry	ACS Chemistry Biochemistry Biotechnology	1905	B.A., B.S.
Communication	Communication Studies	Hearing Interpersonal/Intercultural Communication Organizational Communication Public Communication Speech & Hearing	1506	B.A., B.S.
	Communication Media		0605	B.A., B.S.
	Speech Education/Speech & Hearing Handicapped *		0815	B.A., B.S.
	* Teaching Certification			

<i>Department</i>	<i>Major</i>	<i>Options Concentrations Tracks</i>	<i>HEGIS Code</i>	<i>Degree</i>
Economics	Economics	Business Economics General Economics International Economics	2204	B.A., B.S.
English	English	Graduate Preparation Creative Writing Creative Writing for the Theatre	1501	B.A., B.S.
Foreign Languages	French German Spanish Latin American Studies		1102 1103 1105 0308	B.A., B.S. B.A., B.S. B.A., B.S. B.A., B.S.
Geography	Geography	Planning	2206	B.A., B.S.
Geological Sciences	Geology	Applied/Environmental Geology Environmental Earth Science	1914	B.A., B.S.
History	History		2205	B.A., B.S.
Mathematics & Computer Science	Computer Science Mathematics	Applications Computer Science	0701 1701	B.A., B.S. B.A., B.S.
Nursing	Nursing (Upper division transfer only)		1203.10	B.S.
Philosophy	Philosophy		1509	B.A.
Physics	Physics		1902	B.A., B.S.
Political Science	Political Science	Political Economy	2207	B.A., B.S.
	International Relations		2210	B.A., B.S.
Psychology	Psychology	Psychobiology	2001	B.A., B.S.
Sociology	Sociology	Direct Care Practice Social Services	2208	B.A., B.S.
Interdisciplinary	Journalism Women's Studies		0602 4903	B.A. B.A.
Special Major and Degree Programs				
	Contract Major		4901	B.A., B.S.
	Liberal Studies	Law & Society	4901	B.A., B.S.

Contract Majors

The purpose of the contract major is to enable highly motivated students to develop individual programs of study most appropriate to their particular academic interests. Contract majors should be considered only in those cases where students' academic interests are substantially different to the point that they cannot be accommodated by an existing major program.

A contract major is normally interdisciplinary in nature, and may include regular courses, independent study, fieldwork, study at other institutions, and study overseas. Each contract major must include at least thirty credits and all other general degree requirements must be completed.

A student interested in a contract major must be sponsored by three faculty advisors from academic disciplines related to the contract. No more than two of the advisors may be from the same department.

Students seeking a contract major should submit the required application form before the end of their sophomore year, or at the latest by the end of the first semester of their junior year. A prospective contract major applicant should first consult with a representative of the appropriate Dean's Office to discuss the proposed contract major and the composition of the Contract Committee.

The final proposal must be typed, signed by the student and the three faculty advisors, and submitted to the appropriate Dean's office for approval.

For further information, contact the appropriate Dean (Engineering and Business Administration, Fine and Performing Arts, and Liberal Arts and Sciences). Contract majors are not available to students in Education.

Cognate Courses

In addition to major program offerings, students should select cognate courses with faculty advice. Cognate courses support and complement the major program but are not offered in the major department. Certain major programs have specific cognate requirements which are noted in their program listings.

Minors

A number of minor programs have been established to enable students to

complete a minimal but structured course of study within an academic discipline or interdisciplinary area. Students who elect to complete minor programs must also satisfy all College degree requirements and complete an academic major.

Students are required to declare their minor by filing a Declaration of Minor form with the Office of Records and Registration. Students will be expected to fulfill the minor requirements that are in effect at the time of the declaration of the minor. One-half of the credits in the minor must be credits taken at SUNY at New Paltz. No courses in a student's minor program may be taken under the satisfactory/unsatisfactory (S*/U*) grading option. For details on the satisfactory/unsatisfactory option see the section on "Student Elected Grading System."

The following interdisciplinary and departmental minors are available:

Anthropology
 Art History
 Arts Administration
 Art Studio
 Asian Studies
 Astronomy
 Biology
 Black Studies
 Business Administration
 Catskill Mountain and Hudson River Studies
 Communication
 Computer Science
 Creative Writing
 Economics
 English
 Environmental Science
 French
 Geography
 Geography: Business and Economics
 Majors
 Geology
 German
 History
 International Relations
 Italian Studies
 Jewish Studies
 Journalism
 Latin American Studies
 Law & Politics
 Linguistics
 Mathematics
 Music
 Native American Studies
 Philosophy
 Physics
 Political Science
 Psychology
 Psychology: Management and Organizational Psychology
 Religious Studies

Russian Language and Literature
 Russian Studies
 Sociology
 Sociology: Social Services
 Spanish
 Theatre Arts
 Urban Studies
 Women's Studies

Graduate Programs

The College offers programs leading to eight master's degrees and to the Certificate of Advanced Study. See the graduate catalog for more information.

Master of Science in Education**Elementary (Pre-K-6)**

Early Childhood
 Environmental
 General
 Computers in Education and Instructional Technology
 Reading

K-12 Reading

Secondary (7-12)

Biology
 Chemistry
 Earth Science (Geology)
 English
 French
 Mathematics
 Spanish
 Social Studies
 Economics
 Geography
 History
 Interdisciplinary
 Political Science

Art Education

Special Education

Second Language Education

Educational Administration

Communication Disorders

Master of Professional Studies

Humanistic Education

Master of Science in Teaching (Elementary)**Master of Arts in Teaching (7-12)**

Biology
 Earth Science
 English
 Chemistry
 French
 Mathematics
 Social Studies
 Spanish

Master of Arts

Biology
Chemistry
English
Geology
Mathematics
Psychology
Sociology

Piano Pedagogy

Master of Arts in Art Studio

Ceramics
Metal
Painting
Photography
Printmaking
Sculpture

Master of Science

Business Administration
Computer Science
Electrical Engineering
Nursing

Master of Fine Arts

Ceramics
Metal
Painting
Photography
Printmaking
Sculpture

Piano Performance

Certificate of Advanced Study

(60-hour specialist program)

School District Administrator
School Business Administrator

Academic Regulations**Unit of Academic Credit**

Generally, one credit represents the equivalent of one hour of lecture or recitation or at least two hours of laboratory work each week for one term. Students are expected to spend approximately two hours outside of class preparing for each hour they spend in class.

Course Prerequisites

A prerequisite for a course is another course or action (such as PI) which is required and must be completed before a student can enroll in the course. A corequisite is a course or action which must be taken simultaneously with a course if the corequisite has not been completed already. A student who registers for a course without having completed all prerequisites, or without fulfilling corequisite requirements, can be deregistered at the discretion of the instructor or department chair.

Instructors or department chairs may waive prerequisites and corequisites in individual cases when such a waiver is consistent with the policy of their department. There may also be recommended courses or actions which it is advisable for a student to have taken before enrolling in a course, but which are not required.

Fieldwork Courses

Fieldwork courses are approved experiences by individual academic departments to enable students to enrich their academic program with applied work in their field of study. Fieldwork courses will be offered at the 400 level for undergraduates and are therefore appropriate for upper-division students. The usual fieldwork course number is XX494. Second year students with special approval may be eligible to take fieldwork courses. Generally, fieldwork courses are individually designated as counting or not counting toward the liberal arts requirement.

Fieldwork study forms are available at the Records and Registration Office (HAB 19). The form must be filled out and, accompanied by the student's academic transcript, submitted for approval to the faculty sponsor, the departmental chair, and the academic Dean. Fieldwork study courses should be approved by the time of registration for the semester but may be added to students' programs until the third week of the semester.

Besides the college-wide policy on fieldwork, different instructional units may have additional requirements for fieldwork study. They also vary in their requirements of procedures to be followed in the development of a fieldwork proposal. Students are advised to contact the office of the appropriate academic Dean for further information and/or written guidelines.

Among the regulations concerning fieldwork study adopted by the College of Liberal Arts and Sciences are the following:

A student may offer up to 15 credits of any combination of fieldwork and independent study toward the 120 credits required for graduation.

Students proposing to do fieldwork involving agencies on or off campus must have completed 60 credits toward the degree with a cumulative grade point average of 2.50. Individual departments may require a higher grade point average in courses taken in the major.

The fieldwork must be related to one of the student's primary academic areas of interest, with appropriate prerequisite or corequisite on-campus courses taken in conjunction with the fieldwork.

Independent Study

The primary purpose of independent study is to enable students to gain knowledge and understanding in an area not covered by any course in the regular curriculum or in a greater depth than is possible through a regular course. Independent study usually places the major responsibility for learning directly upon the student, who must have sufficient maturity to identify and resolve a problem through extensive and rigorous research; to gather and integrate information from a variety of sources; to interpret the data; and to express clearly the meaning of the project. Independent study is essentially a tutorial course involving close and frequent contact between the student and the instructor. Since an independent study course is advanced study on an individual basis, it is normally offered at the 400 level. However, some independent study courses are offered at the 200 level. The independent study numbers are XX295 and XX495. Generally, independent study courses are individually designated as counting or not counting toward the liberal arts requirement.

Ordinarily, independent study is taken for three credits but the assignment of credit may be made on a sliding scale of one to four credits when appropriate. Independent study may not be taken under the student-elected satisfactory/unsatisfactory option. An independent study project should be approved by the time of registration for the semester, but it may be added to the student's course program until the third week of the semester.

Independent Study forms are available at the Records and Registration Office (HAB 19). The form must be filled out and, accompanied by the student's academic transcript, submitted for approval to the faculty sponsor, the departmental chair, and the academic Dean.

Besides the college-wide policy on independent study, different instructional units may have their own policies regarding independent study projects. Instructional units also vary in their requirements of procedures to be followed in the development of independent study proposals. Students are advised to contact the office of the

appropriate academic Dean for further information and/or written guidelines.

Among the regulations concerning independent study adopted by the College of Liberal Arts and Sciences are the following:

A student may offer up to 15 credits of any combination of fieldwork and independent study toward the 120 credits required for graduation.

For an independent study course in which the student assists a faculty member in teaching, the student must have completed 80 credits toward the degree with a cumulative grade point average of 3.00, and a grade point average of 3.00 in subjects taken in the major department (and in the department offering the assistantship, if they are different).

For independent study courses in which the student assists a faculty member in preparation of research, students must have a cumulative grade point average of 2.50 and a grade point average of 3.00 in subjects taken in the major department.

For independent study assignments that provide academic instruction not available through regular course work, students must have a cumulative grade point average of 2.50, a grade point average of 3.00 in subjects taken in the major department, and have completed 60 credits toward the degree.

Modulars

Modular courses are short courses of less than a semester's length that are scheduled at various times of the semester. These courses are designed to supplement existing courses or to treat topics not found in the existing curriculum. They may be offered at any undergraduate class level (199, 299, 399, 499). Modular courses may be used as elective credit, and may be repeated for credit, provided that the topic of the course changes. They may or may not be designated LA depending on the course content.

Selected Topics Courses

Selected topic courses are regularly scheduled courses that focus on a particular topic of interest. They may be offered at any class level (193, 293, 393, 493, 593). Descriptions of selected topics courses are printed in the Schedule of Classes each semester. Selected topics courses may be used as elective credit and may be repeated for

credit, provided that the topic of the course changes. They may or may not be designated LA depending on the course content.

Developmental/Remedial Courses

Developmental or remedial courses are basic skills courses taught by the Learning Resource Center, courses in the English as a Second Language Program, and college preparatory courses taught by the Mathematics Department. All developmental/remedial courses have numbers below 100 (XX0XX). For example, the course number for Basic Algebra is 64050 and that for Reading and Study Skills is 30012.

Developmental or remedial courses offered by the college do not carry academic credit. Therefore, they do not count toward the total degree credits required for graduation; nor do they count toward class standing. Grades earned in developmental or remedial courses reflect the evaluation of the student's performance in the course. These grades, however, are not computed in either the semester grade point average or the cumulative grade point average. A specific level of performance indicated by grades in such courses may be used as a prerequisite for higher level courses or for demonstration of proficiency.

Enrollment status in developmental/remedial courses will be counted toward the students' full-time status and eligibility for financial aid. For further details see sections on "The Basic Skills," The Learning Resource Center, English as a Second Language, and appropriate program or departmental course lists.

Semester Workload

A student's semester workload is the combined total of the academic credits and registration units for which he/she is registered. Academic credits are earned in college-level courses numbered XX100 and above. Courses that generate academic credit are designated by the abbreviation "CR" in the Schedule of Classes and the transcript. Registration units are earned in developmental/remedial courses, which do not grant credit or apply toward the degree. Such courses are numbered below 100 (e.g. XX0XX) and are designated by the abbreviation "RU" in the Schedule of Classes and on the internal transcript.

Students must carry a semester workload of twelve credits/registration units to maintain full-time status. Fifteen credits/registration units is considered a normal semester workload, though students may take up to eighteen without special permission. Requests for a semester workload in excess of eighteen credits/registration units are not normally approved. Exceptions are occasionally made only for students who are within one semester of graduation and have a cumulative G.P.A. of at least 3.00.

In Summer Session I, students, with proper advisement, may take up to six credits/registration units. In Summer Session II, students may enroll for up to nine credits/registration units. Permission to exceed these totals for either summer session is not normally granted.

Attendance

Attendance is expected at all classroom sessions. The taking of attendance and attendance requirements, such as the number of allowed absences in a course, are at the discretion of the individual instructor. Each student is responsible for all work presented in the classroom sessions of each course for which the student is registered. Students who absent themselves from class, therefore, do so at their own risk, and in determining a student's grade, the instructor may consider absences.

Religious Beliefs and Class Attendance*

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he[she] is unable, because of his[her] religious beliefs, to register or attend classes or to participate in any examination, study or work requirements on a particular day or days.

2. Any student in an institution of higher education who is unable, because of his[her] religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.

3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his[her] religious beliefs, an equivalent opportunity to register for

classes or make up any examination, study or work requirements which he[*she*] may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.

4. If registration, classes, examinations, study or work requirements are held on Friday after four o'clock post meridian or on Saturday, similar or makeup classes, examinations, study or work requirements or opportunity to register shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, examinations, study or work requirements or registration held on other days.

5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of his[*her*] availing himself[*herself*] of the provisions of this section.

6. Any student who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the supreme court of the county in which such institution of higher education is located for the enforcement of his[*her*] rights under this section.

6-a. It shall be the responsibility of the administrative officials of each institution of higher education to give written notice to students of their rights under this section, informing them that each student who is absent from school, because of his[*her*] religious beliefs, must be given an equivalent opportunity to register for classes or make up any examination, study or work requirements which he or she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to such student such equivalent opportunity.

7. As used in this section, the term "institution of higher education" shall mean any institution of higher education, recognized and approved by the regents of the university of the state of New York, which provides a course

of study leading to the granting of a post-secondary degree or diploma. Such term shall not include any institution which is operated, supervised or controlled by a church or by a religious or denominational organization whose educational programs are principally designed for the purpose of training ministers or other religious functionaries or for the purpose of propagating religious doctrines. As used in this section, the term "religious belief" shall mean beliefs associated with any corporation organized and operated exclusively for religious purposes, which is not disqualified for tax exemption under section 501 of the United States Code.

**Quoted from Section 224-a of the New York Education Law.*

Class Standing

Class standing is determined by the number of semester hour credits earned toward the degree: freshman, 0-29; sophomore, 30-59; junior, 60-89; senior, 90 or over. Freshmen and sophomores are designated lower-division students; juniors and seniors are designated upper-division students.

Dean's List

Placement on the Dean's list in any semester is reserved for full-time students who complete 12 or more credits with a semester grade point average of 3.30 or higher, and who have no incomplete, repeat, or failing grades for that semester.

Graduation with Honors

SUNY/New Paltz recognizes outstanding academic achievement of its graduates by awarding certain degrees with distinction. To be eligible for graduation with Latin Honors, a student must have completed a minimum of 30 credits in residence at New Paltz and have attained a New Paltz cumulative average of 3.30 or higher. If these criteria are met, the grades in all college work done elsewhere, including courses which were not transferred, are calculated into the student's New Paltz average. The revised average is the basis for granting Latin Honors.

Students who have returned to college after an absence of five or more years, and whose previous academic work disqualifies them for Latin Honors, may be eligible for "qualified" Latin Honors. In calculating their honors average, the academic work before their

absence may be ignored if they have earned a 3.30 average in at least 60 credits since their absence including a 3.30 in 30 or more New Paltz credits. Credits earned by examination or through Non-Traditional Learning will not be included in the 60 credit minimum.

Both Latin Honors and "qualified" Latin Honors are based upon the following averages as calculated according to the methods described above:

- 3.30-3.59 - cum laude
- 3.60-3.79 - magna cum laude
- 3.80 and above - summa cum laude

Some academic departments also grant "Departmental Honors" to their outstanding graduates.

Final Examinations

A comprehensive examination and evaluation system is required for each course. Each course syllabus will contain the examination schedule for that course. Final examinations are required in all courses, and must be given during the final examination period at the time and place listed in the Schedule of Classes for the semester.

Grades

Grading System

Student performance in most courses is evaluated by letter grades, according to the following scale: grades "A" or "A-" are given for outstanding work exhibiting excellence of a consistently high order; "B+", "B", or "B-" for good work which is distinctly above average; "C+", "C", or "C-" for acceptable work that is neither distinctly above nor below what is expected of the average student; "D+", "D", "D-" for passing work that is significantly below average; "F" for work that does not meet the minimum standards for passing the course. For students receiving or interested in applying for Federal financial assistance, a failing mark may adversely affect their satisfactory academic progress. For details, see "Satisfactory Progress" under the Financial Aid section of the Catalog.

The grade of "R" (Repeat) is assigned in Freshman Composition to students who are passing the course but fail the exit examination and must, therefore, repeat the course. Students receive no credit toward graduation for courses graded "R" and the grade is not

computed into the student's grade point average.

Certain courses, such as student teaching, do not lend themselves to evaluation using the standard grading system. The optional grading system for such approved courses allows for the assignment of "S" (Satisfactory) or "F" (Failing). Under this grading system, an "F" is counted into the student's cumulative average but an "S" is not.

A grade of Satisfactory in student teaching is required of all students who are preparing to teach. For detailed information on evaluation of student teaching, consult the bulletin issued by the Office of Student Teaching.

Incomplete Marks

The mark of "I" (Incomplete) is awarded at the discretion of the instructor and on the request of the student only when the student has completed at least three-quarters of the required work for a course and where a personal emergency prevents the student from finishing the work on schedule. The student must complete the course by the midterms of the next semester he or she is registered or the "I" will be converted to an "F". For students receiving or interested in applying for Federal financial assistance, a mark of Incomplete ("I") may adversely affect their satisfactory academic progress. For details, see "Satisfactory Progress" under the Financial Aid section of the Catalog.

The mark of "H" (Hold) is normally used only in those few courses for which it has been approved, such as Senior Art Studio or Senior Design Project, where the work begun in the course is continued into a second course the following semester. The grade given at the end of the second semester automatically replaces the "H" given for the first semester. The "H" is also sometimes used in place of an "I" (Incomplete) for Student Teaching and Graduate Thesis.

Students may not graduate with an "H" or an "I" mark on their record. There is one exception to this rule. A student with an incomplete in a course which was taken in his/her last semester at New Paltz and which is not needed to fulfill any college, curriculum, major, or minor requirement may request a "permanent incomplete" ("I*"). The request must be made in writing to the Recorder's Office, HAB 13, and, if the permanent Incomplete is granted, the mark can never be changed. This

exception does not apply to the mark of "H".

Students who do not register for one calendar year after the semester or summer session in which an incomplete mark was granted will have the incomplete converted to a "permanent incomplete" ("I*") if the course is not completed, or an extension not granted, and the instructor does not change the grade within a calendar year of granting the incomplete. A permanent incomplete thus granted can never be changed, but students may graduate with such a grade on their record.

Student Elected Grading System Satisfactory/Unsatisfactory System ("S*" / "U*")

Students may elect the satisfactory/unsatisfactory grading option for no more than 4 credits per semester, and for no more than a total of 12 credits of undergraduate work at New Paltz. Students on academic probation may not elect the satisfactory/unsatisfactory option. Certain courses may not be elected satisfactory/unsatisfactory including courses taken to fulfill General Education, the Writing Intensive requirement, the Education curricula (Pre-K-6 and 7-12), a major and a minor. For students majoring in the biological sciences, physical sciences, or mathematics, cognate courses required for the major offered in other departments are considered to be major courses. Independent study courses also may not be taken satisfactory/unsatisfactory.

Grading Policy: Letter grades of "A", "A-", "B+", "B", "B-", "C+", "C", and "C-" will convert to "S*" (satisfactory), while grades of "D+", "D", "D-" and "F" will convert to "U*" (unsatisfactory). "S*" grades count toward graduation; "U*" grades do not. Upon a student's request, a student-opted "S*" or "U*" mark may be changed back to a regular letter grade, which will then be counted in the cumulative average and appear on the College record. Such a request will be honored until the student graduates.

A student elects to take a course satisfactory/unsatisfactory by completing the request form available in the Records and Registration Office and submitting that form to Records and Registration by the date specified in the academic calendar.

Satisfactory/unsatisfactory grades are not included in computing a student's

grade point average. "S*" grades count toward graduation; "U*" grades do not count toward graduation. Instructors are not notified that students have selected the option and submit regular letter grades which are converted to satisfactory/unsatisfactory by the Records and Registration Office. Only the satisfactory/unsatisfactory grade is permanently entered on the student's record.

The "Repeat Course Grading Option" may not be combined with the "S*/U* Grading Option". Courses graded "S*" or "U*" may not be repeated under the "Repeat Course Grading Option". A course being repeated under the "Repeat Course Grading Option" may not be taken under the "S*/U* Grading Option".

Grade Point Average (G.P.A.)

Semester and cumulative grade point averages (G.P.A.), which are the basis for assessing students' academic standing and eligibility to graduate, are derived as follows. Each credit graded "A" through "F" is given a corresponding numerical value called "quality points". The following chart shows the quality points earned by one credit:

A	4.00	C	2.00
A-	3.67	C-	1.67
B+	3.33	D+	1.33
B	3.00	D	1.00
B-	2.67	D-	0.67
C+	2.33	F	0.00

Grade point averages are determined by dividing the credits graded "A" through "F" into the number of quality points those credits earned. The semester G.P.A. includes just the credits and quality points of that semester. The cumulative G.P.A. is based upon the totals for all semesters and summer sessions at New Paltz. Both computations exclude credits graded "S," "S*" (Satisfactory), "R" (Repeat), "U," "U*" (Unsatisfactory), and "P" (Pass). Credits and quality points earned at other institutions are also excluded. New Paltz grade point averages reflect only the averages earned in courses taken in residence at New Paltz. If more information is needed, contact the Recorder's Office, HAB 13, (914) 257-3110.

Grade Reports

Grades are mailed to the student's permanent address at the end of each semester. Grades are not given out over the telephone or in person at the Office of Records and Registration. Updated copies of a student's academic record

are provided at the end of each semester to the Committee on Academic Standing, which makes the decisions on academic dismissal. Copies of students' grade reports go to the Deans for notification of students who earn Dean's List recognition.

Grade Changes

Once a grade has been reported to the Records and Registration Office, it may ordinarily be changed only if an error has been made in computation or recording. The instructor must submit a certification of such error in writing, approved by the department chair, to the Records and Registration Office within 30 days after the beginning of the next semester. No changes may be accepted after the 30-day period, except with written permission of the appropriate Dean. When a question arises concerning a possible error in a grade reported by an instructor who is no longer a member of the faculty, the chair of the department and the academic Dean concerned take joint responsibility for ascertaining the appropriate grade and authorizing any necessary changes.

Occasionally, students may feel that they have been graded incorrectly. A student wishing to appeal a grade should do so in accordance with the procedures outlined in the document on academic appeals, copies of which are available from the offices of the Deans and the Vice President for Academic Affairs. The procedures are also published in the undergraduate advising handbook, "The Advising Handbook".

Any correction in a student's academic record must be initiated within a year of the end of the semester in question.

Repeating Courses

Students may choose to repeat any course even if they have earned credit for that course. When a student repeats a course that cannot be repeated for degree credit, the grades of both courses will be calculated into the student's cumulative and semester grade point averages unless the student has filed a "Repeat Course Grading Option" form with the Records and Registration Office. This form must be filed by the deadline published in the Schedule of Classes. Under this option the grade of the repeated course will replace the grade earned in the previous course in the student's current GPA. The earlier grade will remain on the transcript. Students with 60 or more

transfer credits may repeat two courses under the "Repeat Course Grading Option." Students with fewer than 60 transfer credits may repeat four courses under the option. No individual course may be retaken under the option more than once. Only students who failed a course may repeat it for credit toward graduation. These policies do not apply to courses that may normally be repeated for degree credit.

The "Repeat Course Grading Option" may not be combined with the "S*/U* Grading Option". Courses graded "S*" or "U*" may not be repeated under the "Repeat Course Grading Option". A course being repeated under the "Repeat Course Grading Option" may not be taken under the "S*/U* Grading Option".

Students receiving or interested in applying for financial aid should be aware that repeated courses may adversely affect their satisfactory academic progress. For details, see "Satisfactory Progress" under the Financial Aid section of this catalog.

Transfer Credit Policy for New Paltz Students

A matriculated and currently enrolled undergraduate at New Paltz may take courses at another institution of higher education, provided that: the student has a cumulative average of 2.00 and is in good academic standing at the college prior to enrollment; courses are taken at an accredited collegiate institution; a Transfer of Credit Application, with appropriate signatures, is filed with the Records and Registration Office in advance of enrollment at the other institution; and an official transcript is sent by the other institution to the Records and Registration Office after the course work is completed. Please note that courses accepted as equivalents of New Paltz courses at the time of admission are not necessarily transferable if taken after matriculation.

Only grades of "C-" or better are accepted in transfer under this program, and no transfer grades are computed in the New Paltz cumulative average. However, approved transfer credits are counted toward graduation and are included in the computations determining graduation honors. (See Graduation with Honors.)

Academic Integrity

Students are expected to maintain the

highest standards of honesty in their college work. Cheating, forgery, and plagiarism are serious offenses, and students found guilty of any form of academic dishonesty are subject to disciplinary action.

Cheating is defined as giving or obtaining information by improper means in meeting any academic requirements. The use for academic credit of the same work in more than one course without the knowledge or consent of the instructor(s) is a form of cheating and is a serious violation of academic integrity.

Forgery is defined as the alteration of college forms, documents, or records, or the signing of such forms or documents by someone other than the proper designee.

Plagiarism is the representation, intentional or unintentional, of someone else's words or ideas as one's own. Since words in print are the property of an author or publisher, plagiarizing is a form of larceny punishable by fine. When using another person's words in a paper, students must place them within quotation marks or clearly set them off in the text and give them appropriate footnoting. When students use only the ideas and change the words, they must clearly identify the source of the ideas. Plagiarism, whether intentional or unintentional, therefore, is a violation of the property of the author plagiarized and of the implied assurance by the students when they hand in work that the work is their own. If students have any questions about what constitutes plagiarism, it is their responsibility to clarify the matter by conferring with the instructor.

Faculty members must report in writing cases of cheating, plagiarism or forgery to their department chair, their academic Dean and to the Associate Dean for Student Affairs. Faculty members are also responsible for making the initial determination of the academic penalty to be imposed in cases of cheating, plagiarism, or forgery and for informing the department chair, the Dean, and the student in writing of the alleged violation and the proposed penalty. The academic penalty may range, for instance, from failure of a specific piece of work in a course to failure of the course itself. Cases requiring disciplinary and/or grade appeal action will be adjudicated in accordance with Procedures for Resolving Academic Integrity Cases, a copy of which is available in the office

of the Vice President for Student Affairs, Office of the Vice President for Academic Affairs, and the Deans' offices. The Procedures are also published in the Advising Handbook.

Academic Standing

Probation and Dismissal

The following rules and regulations apply to probation and dismissal for academic reasons:

Students who have a cumulative grade point average of less than 2.00 will be put on academic probation. Students who have a semester average of less than 2.00, but whose cumulative grade point average is 2.00 or above, will not be put on academic probation; they will, however, receive a letter from the Academic Standing Committee requiring them to review their situation with their academic advisor. Freshmen with one to eighteen total credits completed, whose cumulative average is less than 2.00, will not have "Academic Probation" recorded on their transcripts but will receive a warning of academic deficiency. The transcripts of students on academic probation or of those who have been warned of academic deficiency are reviewed by the Committee on Academic Standing at the end of each semester. When the minimum grade point average is not met, students are subject to dismissal at any time, including the end of their first semester.

Instead of dismissing a student, the Academic Standing Committee may allow the student to continue at the college upon the condition that the student change his/her program of courses. The student's advisor will be notified. Students who do not comply with conditions set by the Academic Standing Committee will be deregistered from all or part of their program of courses.

Freshmen on academic warning and students on probation may be restricted from participating in certain college activities, and may be required by the Academic Standing Committee to carry a restricted number of credits. Freshmen on academic warning incur all penalties imposed on students on probation except having probation recorded on their transcript.

A student who is academically dismissed by the Academic Standing Committee for the first time may appeal the dismissal to the Academic

Standing Committee within the time period stated in the Committee's letter of dismissal. If the student's appeal is granted, the student will be reinstated for the semester following the semester of the dismissal. If a student does not appeal, or the appeal is denied, the student may apply for readmission for a subsequent semester providing that all conditions stipulated by the Academic Standing Committee have been met. Students who have been dismissed a second time have no right of appeal. The decisions of the Academic Standing Committee are final.

Letter grades, quality points, and academic averages earned elsewhere are not transferable. Only the grade point average earned in work completed at New Paltz is used to determine probation, dismissal, and eligibility for graduation.

Good Academic Standing

Any student who is eligible to register or has been allowed to register for academic course work at the college is judged to be in "good academic standing." Normally a student with a cumulative average at New Paltz of 2.00 or higher is considered to be in "good academic standing." Students with a cumulative average at New Paltz below 2.00 will be placed on academic probation, but may be in good standing. Students who have been academically dismissed are not in good academic standing until they have formally been readmitted to New Paltz. Questions about whether an individual student is in good academic standing will be determined by the Committee on Academic Standing.

Satisfactory Progress

Students who wish to avail themselves of Federal or New York State financial aid must meet the guidelines on "satisfactory progress" toward the degree. For details see Satisfactory Progress under the Financial Aid section and the document "Good Academic Standing and Satisfactory Progress for Receipt of the Title IV Aid."

Exemptions from Major or Minor Requirements

Modification of and exemptions from major or minor requirements must originate with a student and his/her advisor, be approved by the chair of the appropriate department, and recorded on the student's plan of study.

Registration Procedures

Registration

Students are responsible for their own programs of study. Matriculated undergraduate students are also required to see their academic advisor at least once each semester. As evidence that they have consulted with their advisor, they must present a signed registration form at walk-in registration or a "permission number", given by their advisor, for telephone registration. First semester freshmen and first semester transfer students must utilize the walk-in system of registration.

Registration procedures are described in the Schedule of Classes published each semester.

Cancelled Courses and/or Sections

Students affected by courses or sections cancelled after registration will be offered other courses or sections in those departments if seats are available. If this procedure is not feasible, the student may add another course during the course-change period.

Course-Change Period

Changes in course programs may be made after registration, at dates, times and under conditions specified in the Schedule of Classes. Such changes are ordinarily made no later than the fifth day of classes for semester-length courses. The first five days of classes are designated as the official course change period. With the approval of their advisor, students may make changes to their course program during this period. No fee is charged for changes in course program during the official course change period. Approved changes to programs after the official course change period involve a fee which must be paid prior to the change.

Addition of a Course

Students may add a regular course which started at the beginning of the semester until the end of the second week of the semester. After the official course change period such an addition requires the permission of the instructor and the payment of a fee. Fieldwork and independent study courses may be added up to the end of the third week of classes. No fee is charged until after the deadline for the addition of fieldwork and independent study courses. The relevant dates are specified in the academic calendar which appears in the Schedule of Classes.

Withdrawal from a Course

A student may withdraw from a course until the date specified in the academic calendar with the payment of a fee. The signature of the instructor and the advisor is required on the course withdrawal form. The relevant dates are specified in the academic calendar which appears in the Schedule of Classes. A course withdrawal after that date will be permitted only for compelling non-academic reasons; students should consult the office of the appropriate Dean for detailed information. No record of course enrollment will appear on the transcript if a course is dropped during the course-change period. A grade of W will be recorded for withdrawals from courses after the course change period and until the course withdrawal deadline date. A grade of F will be recorded for any student who informally drops a course without following the procedure outlined above. Students who wish to withdraw from all courses in which they are enrolled must also file a "Withdrawal from College" form with the Office of Academic Advising to remain in good standing.

For students receiving or interested in applying for Federal financial assistance, withdrawal from a course may adversely affect their satisfactory academic progress. For details, see "Satisfactory Progress" under the Financial Aid section of the Catalog.

Withdrawal from the College

Formal withdrawal from the college terminates current registration in all courses, as well as advance registration for the following semester.

For students receiving or interested in applying for Federal financial assistance, withdrawal from college may adversely affect their satisfactory academic progress. For details, see "Satisfactory Progress" under the Financial Aid section of the Catalog.

A student who wishes to withdraw from the college must complete withdrawal forms available in the Office of Academic Advising. Students who fail to follow this procedure will not be considered to have withdrawn in good standing. Any student who withdraws from the college must apply for readmission. Withdrawals from the college during the semester must be submitted at least one week prior to the beginning of the last week of classes. See academic calendar published in the Schedule of Classes for the date.

Leave of Absence/Recess

Students who wish to interrupt their study at SUNY/New Paltz for up to one year must file a Leave of Absence form in the Office of Academic Advising, indicating the date of expected return. Registration materials for the semester the student expects to return will be mailed to the student's permanent address. If a Leave of Absence is initiated during a semester and results in "W" grades for the semester, approval to return must be granted by the Dean of Student Advising. Leaves of Absence may be taken for a maximum of one year.

Students who interrupt their study at the conclusion of a semester for a semester or more but who do not formally withdraw are considered to have withdrawn and must apply for readmission if they wish to return.

Course Audit Policy

Some academic courses may be audited by registered students and by individuals who are not registered for course work at the State University of New York at New Paltz. A registration fee of \$50.00 as well as any applicable penalty fees will be charged to auditors who are not registered students. Fees will be waived for auditors sixty years of age or over. Those persons wishing to audit a course must complete an Audit Form, obtainable at the Records and Registration Office. An Audit Form is not complete without the signatures of the chair of the department offering the course and by the instructor of the course, either or both of whom may deny audit privileges to an applicant.

The audit privilege permits the auditor to attend a course, providing there is room in the course and the necessary approvals have been granted, and to do reading assignments, but it does not permit the auditor to take examinations in the course or to have his or her work evaluated in any other way. The auditor receives no grade for the course, nor is any record of course attendance kept in the Records and Registration Office. Auditors may not change their enrollment status from audit to credit.

Audit privileges are not ordinarily available in studio, laboratory, or performance courses, or courses where class participation of students is of major importance, nor are they available in credit-free courses offered by the institution or in any foreign study program or course.

Application for the Degree/Graduation

Students completing degree requirements in May, August, or December must submit a degree application to the Recorder's Office during the semester prior to the term of anticipated graduation. The deadline dates are specified in the Schedule of Classes. Degree applications are available in the Recorder's Office.

Students must have paid the Office of Student Accounts all fees and other charges in order to be eligible for graduation.

They must have satisfied any financial obligations incurred in connection with student activities and have returned all books to the library. Official transcripts and diplomas will be sent only when all financial obligations to the college have been met.

Approximately 45 days after the scheduled graduation date final transcripts will be forwarded to graduating students. Their diplomas will be mailed to them some two months later.

Credit for Non-Traditional Learning

New Paltz offers credit for non-traditional learning. In order to receive credit, one must take a three-credit course which gives adults the opportunity to earn college credit for knowledge gained outside academia.

This course offers a basic introduction to preparing a portfolio for gaining college-level credit for non-traditional learning experiences. The course includes examination of the concept of learning, inventory of the student's own prior learning experiences, instruction in preparing the documents which a faculty evaluator will require when awarding college-level credit, and portfolio preparation.

Some sources of college-level learning include: work experience, credit-free courses, in-service training programs, refresher seminars, volunteer work in the community, recreational activities, independent study and research, and military service courses.

Call the Center for Continuing and Professional Education at (914) 257-2900 for additional information and registration materials.

College Credit by Examination

New Paltz recognizes that new students may bring with them a considerable amount of college-level learning gained perhaps in advanced high school courses or independent reading and study. It wishes to offer new students the opportunity to earn college credit or waiver of college courses wherever possible so that there will be a minimum of duplicate instruction.

Advanced Placement (AP)

Entering students with AP credit should have the AP scores sent to the Office of Admissions at New Paltz. Generally a score of 3 or higher in an AP examination assures awarding of New Paltz credit. See "The Advising Handbook" for a complete listing of AP courses (and scores) accepted by New Paltz.

College Level Exam Program (CLEP)

New Paltz will award college credit for many of the CLEP Subject Examinations (not the CLEP General Exams).

CLEP exams may be taken on the New Paltz campus once each semester and at various centers throughout New York State and the nation.

For applications and specific information regarding credits, fees, examination dates, or revisions to the examination list and minimum scores, see "The Advising Handbook" or contact the Office of Academic Advising (914) 257-3015.

Information on Regents College Examinations may also be obtained at the Office of Academic Advising (914) 257-3015.

Catalog Disclaimer

The State University of New York and SUNY at New Paltz reserve the right to alter the existing rules and regulations, academic programs and organizational structures within their respective jurisdictions. The student is expected to be governed by the information on programs, organizational structures, and rules and regulations herein published or subsequently altered.

Notwithstanding anything contained in this Catalog, the State University of New York at New Paltz expressly reserves the right, whenever it deems advisable (1) to change or modify its schedule of tuition and fees, (2) to withdraw, cancel, reschedule or modify any course, program of study, degree, or any requirement or policy in connection with the foregoing, and (3) to change or modify any academic or other policy. Please be advised that, due to printing deadlines, information contained in this Catalog may be outdated. Essential changes in information in this Catalog concerning new academic regulations, policies, or programs will be published in the College's Schedule of Classes. It is the responsibility of each student to ascertain current information that pertains to the individual's program, particularly with regard to satisfaction of degree requirements, through frequent reference to the Schedule of Classes and by consultation with the student's advisor, the student's major department, the office of the student's Dean, and other offices as appropriate (such as Records and Registration, Advising, Financial Aid, etc.). In preparing this Catalog, efforts are made to provide pertinent and accurate information; however, the State University of New York at New Paltz assumes no liability for Catalog errors or omissions.

Faculty Listings and Course Descriptions

The faculty listings reflect regular faculty employed in the 1997-98 academic year.

Abbreviations

FE	Freshman English
PI	Permission of Instructor
PC	Permission of Chair

Course Numbering

0-99 level	Open to students requiring developmental or remedial work (non-credit learning).
100 level	Open to all undergraduate students.
200 level	Open to all undergraduate students.
300 level	Open to sophomores, juniors, and seniors.
400 level	Open only to juniors and seniors.
500 level	Open to graduate students and to qualified seniors by permission. A permission form, available in departmental offices, must be used to obtain approval.
700 level	Open only to graduate students.

Robert Michael, Interim Dean; Richard Reif, Associate Dean

Educational Administration

Professors:

Irene M. Lober (Chair), Ed.D., Virginia Polytechnic Institute
 Marcia M. Norton, Ed.D., Columbia University

Assistant Professor:

Carl Lashley, Ed.D., Indiana University

The Department of Educational Administration offers courses at the graduate level leading to a Master of Science in Education in Educational Administration and at the post-master's level leading to a Certificate of Advanced Study (CAS). A special School Business Administration program is offered as a component of the CAS.

Education-Interdisciplinary

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

34300 Introduction to Bilingual-Bicultural Education (3)

Introduction to the interdisciplinary bilingual-bicultural training program for teachers of Spanish-speaking children: history, goals, models, principles, rationale, and materials. Current issues and effects of bilingual-bicultural education.

Educational Studies

Professors:

Spencer Salend, Ed.D., University of Kentucky
 Nancy Schniedewind, Ed.D., University of Massachusetts
 Joel Spring, Ph.D., University of Wisconsin
 Lorraine Taylor, (Chair), Ph.D., University of Minnesota
 Joseph Trippi Ph.D., New York University
 Martin Wodin, Ph.D., New York University

Associate Professors:

Lee Anne Bell, Ed.D., University of Massachusetts
 Robert Michael, Ph.D., Fordham University
 Catharine R. Whittaker, Ph.D., Ohio State University

Assistant Professors:

Andrew Beigel, Ph.D., Pennsylvania State University
 Sue Books, Ed.D., University of North Carolina
 Ann V. Dean, Ph.D., Dalhousie University
 Judith Dorney, Ed.D., Harvard University
 Laurel Duhaney, Ph.D., Southern Illinois University-Carbondale
 Christine Kerwin, Ph.D., Fordham University

Lecturer:

Lenore Douglas, B.A., New York University

The Department of Educational Studies offers basic foundations courses as well as upper-level elective courses for undergraduate students seeking certification in art education, elementary education, secondary education, and speech and

hearing. An elective concentration in special education is also available to persons seeking teaching certification in one of these areas. Courses offered in this department will be useful to persons wishing to do graduate work in the foundations of education or to enter such fields as elementary and secondary education, educational administration, school psychology, counseling and guidance, special education, and humanistic education. In addition, these courses will be beneficial to persons seeking to enter human service fields.

Contact Persons

Joseph Trippi
 (general information)OM 112A, 257-2831/2834

Lee Anne Bell or Nancy Schniedewind
 (humanistic education)OM 108B, 257-2827/2828

Spencer Salend
 (special education)OM 112C, 257-2889/2830

Judith Dorney
 (foundations of education)OM 113C, 257-2845/2831
 OR

Andrew Beigel
 (foundations of education)OM 219, 257-2869/2860

Concentrations

Special Education

The purpose of the undergraduate emphasis in special education is to prepare prospective teachers to educate students with disabilities in general classrooms. These courses will give students basic knowledge competencies in dealing with students with disabilities who are in elementary and secondary classrooms.

Humanistic Education

Courses in humanistic education may be taken by persons wishing to pursue graduate work in humanistic education or by persons wishing to enter the human service fields, such as youth agencies, social service organizations, women's programs, health agencies, geriatric services or mental health organizations. Certification tracks for Pre-K-6 and 7-12 are available.

Educational Psychology

Courses in educational psychology may be taken by persons wishing to pursue graduate work in educational psychology or to enter such graduate programs as special education, by undergraduates expanding their liberal arts majors with applied science courses, and by undergraduates seeking to work after graduation in fields such as child care services, foster home care, welfare agencies, counseling centers, and mental health agencies.

Social Foundations

Courses in the social foundations of education may be taken by persons wishing to pursue graduate work in social foundations for such purposes as college teaching, by

undergraduates expanding their liberal arts majors with professional/technical courses dealing with education, and by undergraduates seeking to work after graduation in such fields as social welfare agencies, community education programs, juvenile courts, and international education agencies.

Career Opportunities

Students taking educational studies courses normally intend to seek certification as elementary or secondary school teachers. However, these courses are also excellent preparation for entering specialized graduate programs such as school psychology, counseling and guidance, special education, and humanistic education. Also, these courses are excellent preparation for persons intending to enter, after graduation, such human service areas as: mental health and social welfare agencies, community education programs, rehabilitative services, child care programs, and international education agencies.

Liberal Arts Designation

All undergraduate courses may be counted toward the undergraduate liberal arts requirement except: 38494. 38340 fulfills the U.S. Studies requirement of G.E. II. Designated sections of 38340 also fulfill the Writing Intensive requirement. The following graduate level courses may be taken by seniors and be counted toward the undergraduate liberal arts requirement: 38501, 38503, 38548, 38581.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

38340 Sociological and Philosophical Foundations of Education (3)

Introduction to the social foundations of education. Discusses the history, sociology and philosophy of education in the United States. Includes discussion of problems of students with special needs, racism, sexism, multiculturalism, and child abuse and neglect. Designed for those planning careers as teachers and for those interested in the study of education as a social process. (Required for teaching certificate.) Prerequisite: Matriculated status or PC.

38351 Education of Self (3)

An experiential course providing students structured experiences to expand their self-knowledge. Activities help students clarify their behavior patterns and increase their range of choices personally and interpersonally.

38360 Human Interaction in Groups (3)

Introduction to group dynamics. Students examine their role as a member of a group, their style as a leader, and the effects of their behavior on others.

38365 Psychology of Human Learning (3)

This course examines theories of learning and development and how they speak to the lives of individual learners with diverse needs. While the process of learning is defined broadly, the focus for the course is on learning and schooling. Relationships between theory and practice, psyche and culture, classroom and society are considered.

38371 Child Psychology and Development (3)

Considers theoretical positions regarding growth, learning and personality development as they relate to the education of

children. Examines general characteristics and individual differences of the infant and preschool child and the school-age child up to adolescence. Includes child observation and discussion of such factors as sex, role, ethnic and linguistic differences, handicapping conditions and abuse and neglect. (Required for elementary teaching certificate.) Prerequisite: Matriculated status or PC.

38372 The Developing Adolescent (3)

Explores the relationship between the physical, emotional, cognitive and social areas of adolescent development. Considers issues of inclusion such as multi-culturalism, special needs and gender issues. Designed for prospective teachers and others who may work with adolescents. (Required for 7-12 certification.) Prerequisite: Matriculated status or PC.

38373 Education from a Global Perspective (3)

Introduction to the study of comparative education. Examines the educational process in a variety of countries. Topics include the social context, role of the teacher, goals of education, nature of the curriculum, and organization, control and financing of the system. Designed for those planning careers as teachers and for those interested in the study of education as a social process (38340 or 38373 required for teaching certificate).

38431 Educational Anthropology (3)

Introduction to the universals of learning as a cultural process through application of concepts, theories, and models of anthropology in learning situations in schools and other institutions in which culture is transmitted and changed. Specific case studies of education and culture in several global regions. Prerequisite: PI.

38452 Sex-Stereotyping in Education (3)

Effects of sex-role stereotyping on learning and achievement. Sex-role development as influenced by educational institutions, teachers, curriculum, and educational materials.

38483 Advanced Child Psychology (3)

Develops teacher sensitivity to the atypical school child and to unusual types of behavior in the classroom that may need special school services and interpretation to parents. Prerequisite: 38371.

Graduate Courses

38501 Psychology of Early Childhood (3)

Patterns of behavior characteristic of early childhood years. Focus on emotional development and effect on learning of parent-child and teacher-child interaction. Observation of young children. Prerequisite: 35404 and 35405 or teaching certificate (N-6) or (K-6).

38503 Personality Theory for Teachers (3)

Advanced course in personality theory; systematic study of some prominent theories and their application as a guide in understanding human behavior. Attention to personal adjustment through study of healthy personality. Prerequisite: Student teaching or teaching certificate.

38504 Individual Psychological Testing (3)

Introductory course in individual psychological-education testing. Practice in using and interpreting various psychological instruments. Prerequisite: Student teaching or teaching certificate or PI.

38511 Child Development (3)

Recent research findings in the social, emotional, intellectual, and physical development of children. Implications for teachers' relationship with individual children.

38512 Mental Health in the Classroom (3)

Dynamics of teacher-pupil relationship and the effect of these relationships in fostering the development of mentally healthy children. Case study methods utilized. Prerequisite: One course in educational or developmental psychology taken recently.

38520 History of Education (3)

This course traces the history of American education from the eighteenth century to the present. It includes a discussion of the development of public schools, the personalization of education, and the use of education as one aspect of ideological management. In addition, there is a discussion of the relationship between education and mass media in the twentieth century. Prerequisite: Open to all graduate and upper-division undergraduate students.

38538 Psychological Foundations of Education (3)

This course examines the links between education, particularly schooling, and psychological development. Themes addressed include development, the interplay of psyche and culture, paradigmatic and narrative modes of thinking, etc. Central to the course is the consideration of how theory influences individual learners and their communities.

38539 Social Foundations of Education (3)

Inquiry into social/cultural practices and ideas that bear upon education. Students will look at how such realities as cultural diversity, economic stratification, questions/tensions around gender, and the social condition of children shape contemporary educational challenges and possibilities.

38540 Humanizing Educational Environments (3)

Examination of factors involved in humanizing educational environments. Focus on climates conducive to learning, alternative ways to structure schools, and the teacher behaviors essential to person-centered education.

38541 Humanistic Approaches to Education and Human Services (3)

A survey of current literature in humanistic approaches to education and helping professions with a focus on historical, philosophical, and psychological roots of the field. Prerequisite: PI.

38542 Women's Issues in Human Services (3)

Focus on contemporary problem topics concerning the status and welfare of women served by human service organizations.

38545 Cooperatively Structured Learning (3)

A course providing educators the understanding and skills to effectively implement cooperatively structured learning and to foster cooperative classroom communities.

38547 Education of Self for Professionals (3)

An experiential course providing structured experiences to help professionals expand their self-knowledge. Activities help educators and human service professionals clarify behavior patterns and increase the range of choices in personal and professional realms.

38548 Helping Skills in Social Context (3)

This course will focus on general approaches to helping in interpersonal and institutional contexts. Communication,

counseling and intervention skills, and the social and political aspects of helping are addressed.

38560 Addressing Educational and Cultural Diversity (3)

This course will provide methods and principles for educating diverse students. It will offer skills for dealing with difference based on race, ethnicity, language, gender and ability/disability. The course will focus on the needs of students with different abilities and techniques for meeting their needs in inclusive settings. Particular attention will be given to creating a pluralistic and inclusive classroom community where the diversities of students, their families, and communities are valued and affirmed.

38561 The Study of Aging (3)

This is an introduction to the field of gerontology with special emphasis on the psychology of aging. The physical, social, emotional, and intellectual components of human development as found in the aged will receive primary attention. The implications for adjustment will be explored and ways of assisting the aged in contemporary society will be considered.

38571 Cognition and Language in Children (3)

Major theories and observations on cognition and language in children. Their perception, memory, thought, and language as viewed by Piaget, Bruner, R. Brown, Skinner, and others. Nature of children's impairments in cognitive functioning and language usage, and the social, emotional, and biological conditions that lead to these impairments.

38580 Current Issues in Education (3)

Current issues in public education in the United States, the context from which they emerge, and their possible resolution. Prerequisite: Student teaching or teaching certificate.

38581 Issues of Racism and Sexism in Education (3)

An examination of personal and institutional racism and sexism and strategies for creating multicultural and gender-fair curricula, classrooms and schools.

**Undergraduate Courses
Special Education**

The following courses may be counted toward the liberal arts requirement: 39502, 39560, 39595.

39301 Mainstreaming/Inclusion of Students with Disabilities (3)

Integrating and educating students with disabilities in elementary and secondary classrooms. Prerequisite: 39210.

39310 Psychology of Learners with Disabilities (3)

An understanding of learners with disabilities and learners who are gifted and talented with emphasis on the educational needs of learners with special needs. Prerequisite: 38371, 38372, or PI.

39311 Diagnostic Assessment in Special Education (3)

An overview of diagnostic and assessment procedures used in special education and the development of prescriptions based on this information. Prerequisite: 39210.

39313 Methods and Materials in Special Education (3)

An overview of methods and materials used in special education. Emphasis on classroom strategies and the selection and preparation of materials. Prerequisite: 39210.

Graduate Courses Special Education

39502 Psychology of Individuals with Disabilities (3)

An understanding of individuals with disabilities and the meeting of their educational needs in the classroom.

39560 Psychology of Individuals with Mental Retardation (3)

Theoretical background, etiology, classification, and psychodiagnosis of mental retardation. Focuses on educational needs of individuals with mental retardation.

39561 Introduction to Mental Retardation (3)

Various educational provisions and ancillary services needed by students with mental retardation are discussed. Fieldwork activities focus on the unique considerations of learning, growth, and community living.

39562 Education of Learners With Special Needs (6)

An overview of the issues involved in educating exceptional learners through course work (4 credits) and related field experiences (2 credits).

39565 Mainstreaming/Inclusion of Learners with Disabilities (3)

The mainstreaming procedure and the inclusion of learners with disabilities in general education classrooms are examined. Prerequisite: Student teaching or teaching certificate.

39571 Teaching Communication Skills to Learners with Disabilities (3)

Methods, materials, and procedures for increasing the communication skills of students with disabilities. Prerequisite: 39562 or equivalent.

39575 Technology in Special Education (3)

This course is designed for special educators who are interested in learning how to use educational technology. Content dealing with ways microcomputers can be employed to teach exceptional students will be discussed. Procedures for evaluating microcomputer software application to special education as well as other practical applications of educational technology will be covered. Prerequisite: 39210, 39310, 39562 or equivalent.

Inclusion Program

Program Coordinator:

Andrew Beigel, Ph.D., Pennsylvania State University

The goals of this new five-year program are to prepare teachers to design effective instruction for a broad spectrum of leaders, to be effective in classroom settings that include students with disabilities, and to be educational leaders in inclusive education. Successful completion of the program leads to the Bachelor of Science and the Master of Science degrees and to dual-certification in elementary (Pre-K-6) and special education. For further information, contact the Program Coordinator.

Elementary Education

Professor:

Bartlett A. Wagner, Ph.D., University of Connecticut

Associate Professors:

Nancy Gropper Ed.D., Columbia University

Rose Rudnitski, (Chair), Ed.D., Columbia University

Laura Sgroi, Ed.D., Columbia University

Assistant Professors:

Andrew Beigel, Ph.D., Pennsylvania State University

Abbey Block Cash, Ph.D., SUNY-Albany

Kenneth Counselman, Ph.D., Claremont Graduate School

Nancy Dubetz, Ed.D., Columbia University

Winifred Montgomery, Ph.D., University of California-Berkeley

The primary objective of the Department of Elementary Education is to assist students in developing the knowledge, skills, and attitudes needed for successful elementary school teaching. However, the education curriculum prepares students for more than teaching. It not only offers a foundation for building an enriched life but can also be applied toward the development of careers in areas as diverse as human services, industrial training, and public relations. Education students at New Paltz will graduate with a baccalaureate degree in education, preparation in professional education, a teaching certificate, and an academic major.

Background

The State Education Department of New York State requires that all students who are seeking provisional certification pass the New York State Teacher Certification Examinations (NYSTCE). The State maintains that passing the NYSTCE reflects an acceptable level of general knowledge in various subject-matter areas. In addition, students must complete a mandated two-hour training seminar in Identification and Reporting of Child Abuse.

Students are also required to take courses focusing on curriculum and instruction, which deal with reading, language arts, science, social studies, and mathematics as well as a course on developmentally appropriate curriculum practices. In addition, all students must engage in field experiences in which they apply knowledge acquired in course work as they begin to develop skills, attitudes, and further knowledge in the classroom.

Evaluation of students is continuous. Established entry criteria and exit criteria must be met. Assessment procedures are based on mastery of knowledge acquired, writing lesson plans and curricula, and actual performance as prospective teachers in classroom situations.

Certification

There are three types of certification issued by the New York State Education Department, Division of Teacher Education and Certification. They are (1) a certificate of qualification, (2) provisional certification, and (3) permanent certification. For additional details on each of these types of certification and on student teaching, see the section on Teacher Education Programs in the front of this catalog.

Students pursuing certification in a field not offered at New Paltz but who are taking courses here should consult with the Division of Teacher Education and Certification, Cultural

Education Center, Empire State Plaza, Albany, New York 12230, (518) 474-3901, Monday through Friday (1:00 pm - 4:00 p.m. only), to confirm the acceptability of their courses for certification purposes.

Objectives

The Department of Elementary Education seeks to develop competent elementary teachers. This competence is based on the acquisition of knowledge, skills, and attitudes through course work and clinical experiences.

Elementary education programs attempt to prepare teachers who:

1. understand children and how they learn;
2. can create a variety of learning environments;
3. have mastery of subject matter germane to the field of schooling;
4. understand their roles as helpers of children and facilitators of the learning process;
5. can evaluate the outcomes of learning in themselves and in children;
6. are sensitive and skillful in human relations;
7. have commitment to themselves, children, and the teaching profession; and
8. understand the relationship between the cognitive and affective domains and utilize this knowledge in their teaching.

Contact Persons

Dr. Nancy Gropper
Department ChairOM 205, 257-2860

Mrs. Bethanne Grant
Education Advisor,
School of EducationOM 105, 257-2807, 257-2805

Mrs. Amanda Merritt
Director of
Student TeachingOM 107, 257-2823

Pre-K-6 Curriculum

The Department of Elementary Education offers a program in the following certification area:

Elementary Education (Pre-K-6)

Students choosing this program take a broad background of course work geared to teaching on all levels from pre-kindergarten through grade six. Fieldwork is done in selected schools on at least two levels from pre-kindergarten through grade six. Those successfully completing this program earn a Bachelor of Science in Education and are qualified to receive certification from the State Education Department for teaching pre-kindergarten through grade six. A minimum of 120 academic credits is needed for the baccalaureate degree with certification.

Acceptance into the Elementary Program (Pre-K-6)

Formal acceptance into the elementary education program will occur the semester prior to beginning the Professional Semester. Acceptance into the program is contingent upon the following:

1. A cumulative grade point average of 2.50 at New Paltz, which the student must maintain to be permitted to student teach.
2. A successful interview with the Education Advisor.
3. Successful completion of all general liberal arts requirements.
4. Successful completion of all Pre-K-6 liberal arts major requirements.
5. Successful completion of all prerequisite professional education course work (required for entrance into the Professional Semester), and the required liberal arts courses.
6. Class standing as a junior having completed 60 credits.
7. A health physical and tuberculosis test.

All class standing sophomores and transfers (sophomores and/or juniors) interested in elementary education must file a Declaration of Major form with the Education Advisor (OMB 105) as soon as possible. The completion of the form does not obligate one to join the program, but merely gives us the opportunity to provide students with pertinent information and careful advisement.

Requirements

Pre-K-6 Curriculum

The required course work falls under four categories:

- A. General Education Requirement
- B. An approved Pre-K-6 major
- C. Professional Education
- D. Elective Courses

A. GENERAL EDUCATION REQUIREMENT

Students in the Elementary Education Pre-K-6 curriculum take selected course work under advisement to fulfill the College's General Education requirements. All upper sophomore New Paltz students must see the Education Advisor concerning the education curricular programs (Old Main Bldg. 105).

B. MAJOR 30-38 CREDITS

Students must complete an approved Pre-K-6 academic major. Transfer courses for which advanced standing has been given and which are comparable to those meeting major requirements or are appropriate to an individualized major may be acceptable under advisement.

Pre-K-6 Majors

Anthropology	History
Art History	Mathematics
Biology	Music
Black Studies	Political Science
Communication	Psychology
Earth Science	Sociology
English	Spanish
French	Theatre Arts
Geography	Women's Studies
German	

■ Anthropology (Pre-K-6)

30 credits

Required courses12 credits

07211	General Anthropology (3)
07213	Introduction Archaeology (3)
07214	Cultural Anthropology (3)
07301	Human Evolution (3)

One of the following3 credits

07400	Developmental Anthropological Thought (3)
07401	Comparative Social Organization (3)

Electives15 credits

Each major candidate is required to complete five additional courses in Anthropology, on the 300-level or above.

■ Art History (Pre-K-6)

30 credits

Required courses24 credits

11201	Art of the Western World I (3)
11202	Art of the Western World II (3)
11358	Early 20th-Century Art (3)
11360	Arts of Asia I (3)
11381	Arts of Asia II (3)
11382	American Art (3)
<i>OR</i>	
11370	Art of Hudson Valley (3)
09105	Introduction to Drawing and Design (3)
09110	Introduction to Ceramics (3)
<i>OR</i>	
09120	Introduction to Metal (3)
<i>OR</i>	
09170	Introduction to Sculpture (3)

Art History Electives6 credits

■ Biology (Pre-K-6)

31-35 credits

Required courses16 credits

15201	General Biology I (4)
15202	General Biology II (4)
15320	Genetics (4)
15340	Ecology (4)

One of the following4-5 credits

15305	Plant Morphology (4)
15307	Comparative Vertebrate Anatomy (5)

One of the following3-4 credits

15301	Field Biology Fall (3)
15302	Field Biology Spring (3)
15412	Evolutionary Theory (3)
15418	Animal Behavior (4)

Electives6-10 credits

Two upper-division biology electives

■ Black Studies (Pre-K-6)

30 credits

Required courses12 credits

17100	Introduction to Black Studies (3)
17357	Psychology of the Black Child (3)
17370	Education in the Black Community (3)
17396	Black English: Language and Culture (3)

Restricted electives6 credits

Each major candidate is required to complete, by advisement, one course from each of the following sets:

17200	Introduction to Africa (3)
<i>OR</i>	
17201	Black History I (3)
17330	Race and Racism (3)
<i>OR</i>	
17355	The Black Family (3)

Electives12 credits

In addition, each major candidate is required to complete one course from each of the following core groups:

- (1) Historical
- (2) Humanities
- (3) Socio-Psychological
- (4) Political-Economic

■ Communication (Pre-K-6)

30 credits

Required courses18 credits

90101	Communication and Media (3)
<i>OR</i>	
90102	Introduction to Communication (3)
<i>OR</i>	
90202	Interpersonal Communication (3)
90213	Performance of Literature I (3)
<i>OR</i>	
90302	Phonetics (3)
<i>OR</i>	
90306	Language Development Children (3)
<i>OR</i>	
90312	Introduction to Speech Pathology (3)
<i>OR</i>	
90353	Theories of Persuasion (3)
<i>OR</i>	
90354	Communication Research Methods (3)

Electives12 credits

(At least 6 credits must be upper division)

1. Grades lower than "C-" are not accepted in Communication Major courses.
2. Students in the Education Curriculum (Pre-K-6) are required to take 90104, Public Speaking, in addition to the above courses.

■ Earth Science (Pre-K-6)

35-36 credits

Cognate courses7 credits

- 12201 Exploring the Solar System (3)
OR
 12202 Exploring the Universe (3)
 22201 General Chemistry I (4)

Geology courses28-29 credits

- 50120 Weather and Environment (4)
 50220 Geologic Processes (4)
 50301 Historical Geology (4)
 50305 Paleontology/Stratigraphy (4)
 50311 Mineralogy/Crystallography (4)
 50331 Stratigraphy-Sedimentation (3)
 50335 Stratigraphy-Sedimentation Laboratory
 Procedures (2)
 One 300-level geology course by advisement (3-4)

■ English (Pre-K-6)

30 credits

At least one-half of the English major must be completed at New Paltz. Freshman Composition credits are not included in that major. Courses taken as pass/fail cannot be counted toward the major.

Required courses18 credits

- 41301 English Literature I (3)
 41302 English Literature II (3)
Elect one of the following:
 41331 American Literature I (3)
 41332 American Literature II (3)
 41333 American Literature III (3)

Elect one of the following:

- 41406 Shakespeare I (3)
 41407 Shakespeare II (3)

Elect two of the following:

- 41200 Analysis and Interpretation (3)
 41224 Expository Writing (3)
 41226 Practical Grammar (3)
 41345 Creative Writing Workshop (3)
 413XX Theories/Writing (3)
 53230 Journalism II (3)

Elective courses12 credits

With the approval of the department advisor, each major candidate must complete four elective courses in English, of which two must be at the 400 or 500 level. Three electives must be period or genre courses and must represent offerings in both English and American literature.

■ French (Pre-K-6)

30-36 credits

Basic language courses6 credits

- 46101 Elementary French I (3)
 46102 Elementary French II (3)

Students with prior training or experience in French may obtain waivers for one or more of the basic language courses listed above, after consultation with the Department of Foreign Languages.

Required courses30 credits

Both of the following:

- 46201 Intermediate French I (3)
 46202 Intermediate French II (3)

Both of the following:

- 46301 French Composition/Conversation I (3)
 46302 French Composition/Conversation II (3)

Both of the following:

- 46319 French Civilization (3)
 46404 Daily Life in France (3)

Two of the following:

- 46313 French Literature I (3)
 46314 French Literature II (3)
 46416 French Literature III (3)

Two of the following:

- 46401 Advanced French Composition/Conversation I (3)
 46402 Advanced French Composition/Conversation II (3)
 63420 Applied Linguistics for Foreign Language Training (3)

■ Geography (Pre-K-6)

30 credits

Required courses9 credits

- 48250 Maps and Graphics (3)
 48252 Economic Geography (3)
 48274 Environment & Culture (3)

Electives21 credits

Each major candidate is required to complete, by advisement seven courses in geography selected from systematic and/or regional courses, at least five of which shall be at the 300 level or above.

■ German (Pre-K-6)

36 credits

Basic language courses12 credits

- 52101 Elementary German I (3)
 52102 Elementary German II (3)
 52201 Intermediate German I (3)
 52202 Intermediate German II (3)

Required courses18 credits

One of the following:

- 52311 German Composition and Conversation I (3)
 52315 Advanced German [summer in Germany] (3)

One of the following:

- 52312 German Composition/Conversation II (3)
 52401 Advanced German Composition [summer in Germany] (3)

One of the following:

- 52314 Contemporary German Civilization [summer in Germany] (3)

- 58311 Modern Germany [History Department] (3)

All of the following:

- 52316 Germany Today (3)
 52405 Modern German Drama (3)
 52409 Nineteenth-Century German Plays (3)

Electives6 credits

Each major candidate is required to complete, by advisement, two courses (6 credits) at the 300 or 400 level in German.

■ History (Pre-K-6)

30 credits

Required courses12 credits

58207	Medieval Europe (Survey from Late Roman Empire to 1500) (3)
58214	Modern Europe (Survey from 1500 to Present) (3)
58221	Young Republic (American History Survey to 1865) (3)
58222	Modern America (Survey from 1865 to the Present) (3)

Two of the following6 credits

Non-European and non-American societies

58309	Indians of the U.S. (3)
58316	Modern China (3)
58333	Soviet Union (3)
58334	Traditional Japan (3)
58347	History of South Africa (3)
07379	Cultures of the Middle East (3)
17321	Afro-Latin American Civilization, 1492-1825 (3)
48260	Understanding China (3)
48307	Understanding Latin America (3)

One of the following3 credits

New York State History

58303	Empire State (3)
58308	Indians of New York State (3)
58508	Seminar in New York State History (3)
58511	Hudson Valley Culture (3)
58525	New York State and the Revolution (3)

One of the following3 credits

77216	American Government and Politics (3)
77432	American Presidency (3)

One of the following3 credits

This requirement guarantees that at least one course is taken which is related to minority experiences in the U.S. or elsewhere.

58305	Women in Modern History (3)
58308	Indians of New York State (3)
58309	Indians of the U.S. (3)
58310	Indians of the Eastern Woodlands (3)
58314	History of Women in the U.S. (3)
58373	The Holocaust (3)
58374	American Jewish Experience (3)
58380	Saints, Witches, and Madwomen (3)
17201	Black History I (3)
17202	Black History II (3)

One of the following3 credits

58302	American Immigration (3)
58304	American City (3)
58414	American History through Biography (3)
58415	European History through Biography (3)

■ Mathematics (Pre-K-6)

32-34 credits

Required courses26 credits

64140	Mathematics for Elementary School Teachers (3)
64240	Geometry: A Modern Introduction (3)
64241	Introduction to Statistics (3)
64251	Calculus I (4)
64252	Calculus II (4)
64260	Foundations of Mathematics I (3)
64301	Foundations of Mathematics II (3)
64331	Axiomatic Geometry (3)

One of the following3-4 credits

25104	Visual Programming (3)
25210	Computer Science I: Foundations (4)
25293	Pascal Programming (3)

Electives3-4 credits

The elective must be a course offered in the Mathematics/Computer Science Department at the 300 level or above.

■ Music (Pre-K-6)

35 credits

Required courses32 credits

66106	Fundamentals of Music Theory (3)
66150	Concert Series Attendance (0)
66203	Theory I (3)*
66201	Piano I (2)
<i>AND</i>	
66231	Sight Singing/Ear Training I* (1)
66150	Concert Series Attendance (0)
66204	Theory II (3)*
<i>AND</i>	
66232	Sight Singing/Ear Training II* (1)
66202	Piano II (2)
66303	Theory III** (3)
66301	Piano III** (2)

Ensemble (2)
Music History*** (3)
Ensemble (2)
Keyboard Harmony** (2)
Music History*** (3)

Electives3 credits

One 300-level music course (3)

* *Sight Singing/Ear Training I & II should be taken concurrently with the respective Theory I & II levels.*** *Upper division**** *Upper division and G.E. Aesthetic Expression***■ Political Science (Pre-K-6)**

36 credits

Required courses12 credits

77216	American Government & Politics (3)
77226	Classics of Political Thought (3)
77227	International Politics (3)
77229	Introduction to Comparative Politics (3)

Upper-Division Electives24 credits

Six credits or less of the State Politics Semester (77484) or the Government Internship (77480) may be credited toward the Upper Division Electives.

■ Psychology (Pre-K-6)

31-32 credits

Required courses11 credits

80272	General Psychology (3)
80275	Psychological Statistics (4)
80301	Experimental Psychology (4)
<i>OR</i>	
80311	Research Methods (3)

Two of the following6 credits

- 80273 Psychology of Adjustment (3)
- 80304 Industrial Psychology (3)
- 80306 Social Psychology (3)
- 80343 Psychology of Infancy & Childhood (3)
- 80344 Adolescence & Adulthood (3)
- 80412 Abnormal Psychology (3)
- 80440 Personality and Psychotherapy (3)
- 80458 Introduction to Psychological Testing (3)

Two of the following6 credits

- 80302 History & Systems of Psychology (3)
- 80303 Introduction to Psychology of Learning (3)
- 80305 Psychology of Perception (3)
- 80308 Psychology of Motivation (3)
- 80310 Psychology of Memory and Thinking (3)
- 80402 Psychology of Language (3)
- 80436 Physiological Psychology (3)

Three additional courses9 credits

These courses may be selected from the list below, or from the two preceding categories.

- 80315 Basics of Organizational Psychology (3)
- 80318 Group Behavior (3)
- 80320 Behavior Modification (3)
- 80330 Crisis Intervention (3)
- 80350 Psychology of Women (3)
- 80380 Practicum with Emotionally Disturbed Children (6)
- 80430 Transactional Analysis (3)
- 80433 Psychoanalysis, Behaviorism, Humanism (3)
- 80438 Clinical Psychology (3)
- 80442 Psychological Study of Social Problems (3)
- 80493 Selected Topics (3)
- 80494 Fieldwork (3)

■ Sociology (Pre-K-6)

30 credits

Required courses12 credits

- 87100 Introduction to Sociology (3)
- 87220 Class & Power in American Society (3)
- 87230 Sociological Theory and Thought (3)
- 87240 Sociological Inquiry and Analysis (3)

Electives18 credits

Each major candidate is required to complete, by advisement, six additional courses in sociology. A student may apply to the major a total of three credits from the following courses: Independent Study, Seminar for Student Assistants, or Seminar for Research Assistants.

■ Spanish (Pre-K-6)

30-36 credits

Basic language courses6 credits

- 89101 Elementary Spanish I (3)
- 89102 Elementary Spanish II (3)

Students with prior training or experience in Spanish may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department. Native speakers of Spanish may substitute courses for native speakers.

Required courses30 credits

- 89201 Intermediate Spanish I (3)
- 89202 Intermediate Spanish II (3)

- 89301 Spanish Composition/Conversation I (3)
- Native speakers may substitute grammar and composition for Native speakers which is taken in place of 301.

- 89361 Spanish Composition/Conversation II (3)
- 89365 The Culture of Spain (3)
- 89366 The Culture of Spanish America (3)

One of the following:

- 89367 Spanish Literature I (3)
- 89368 Spanish Literature II (3)

One of the following:

- 89369 Spanish American Literature I (3)
- 89370 Spanish American Literature II (3)

Two of the following:

- 89363 Spanish Phonetics and Oral Practice (3)
- 63420 Applied Linguistics for Foreign Language Training (3)

- 89461 Advanced Spanish Composition (3)

■ Theatre Arts (Pre-K-6)

35 credits

Required courses26 credits

A minimum of two credits must be taken from the Theatre Arts Participation courses listed below. Any of the Theatre Arts Participation courses may be repeated once for credit.

- 91231 Acting I (3)
- 91252 Stagecraft I (3)
- 91253 Costume Construction I (3)
- 91254 Stage Lighting I (3)
- 91301 Theatre Arts Participation (1)
- 91321 Theatre History I (3)
- 91322 Theatre History II (3)
- 91323 World Drama I (3)
- 91324 World Drama II (3)

Electives9 credits

The remaining nine credits must be taken from existing Theatre courses and/or Departmental Selected Topics, in consultation with the student's advisor.

■ Women's Studies (Pre-K-6)

31 credits

Required courses25 credits

- 94220 Women: Images and Realities (4)
- 94317 History of Women in the U.S. (3)
- 90412 Communication and Gender (3)
- 94490 Seminar in Women's Studies (3)

One from each of the following categories:**Women, Culture and Society**

- 41323 Women in Literature: A Contemporary View (3)
- 87360 Sociology of Women (3)
- 94314 Violence Against Women (3)
- 94315 Women with Women (3)

Politics and Work

- 38581 Issues of Racism and Sexism in Education (3)
- 77365 Sex Discrimination and the Law (3)
- 77393 Women, Law and Public Policy (3)
- 94311 Women and Work (3)
- 94422 Women, Power and Organization (3)

Multicultural Perspectives

- 07421 Cross Cultural Perspectives on the Status of Women (3)
- 17221 The Black Woman (3)
- 38581 Issues of Racism and Sexism in Education (3)
- 58393 Women in China and Japan (3)
- 94393 Latinas in the U.S. (3)

Female Development, Health and Sexuality

- 73704 Human Sexuality (3)
 80350 Psychology of Women (3)
 94415 Women and Health (3)

Three modulars:

- 94299 Birth Control and Sexual Health (1)
 94399 Peer Education about Contraception and Sexual Health (1)
 94XXX Rape and Sexual Abuse (1)
 (to be developed)

Electives **6 credits**

C. PROFESSIONAL REQUIREMENTS

Transfer courses for which advanced standing credit has been given and which are comparable to those listed for these requirements may be acceptable under advisement.

Liberal Arts prerequisites **18 credits**

- 48273 Basic Physical Geography (3)
 64140 Mathematics for Elementary Teachers (3)
 64240 Geometry: A Modern Introduction (3)
 XXXXX Language other than English (6)
 90217 Public Speaking (3)
 OR
 90213 Performance of Literature I (3)

The following optional electives may be taken:

- 39210 Psychology of Exceptional Children and Youth (3)
 39301 Mainstreaming Handicapped Children (3)
 35331 Microcomputer in the Elementary Classroom (3)

NOTE: All above course work in Education and Liberal Arts MUST be completed before the Professional Semester.

Education Courses

36 credits

Program prerequisites **9 credits**

- 38371 Child Psychology & Development (3)
 38340 Sociological & Philosophical Foundations of Education (3)
 35375 Teaching Reading in the Elementary School I (3)

Professional Semester **15 credits**

(to be taken after official admission to the program)

- 35371 Developmentally Appropriate Practices (3)
 35378 Teaching Science in the Elementary School (3)
 35376 Teaching Reading/Language Arts in the Elementary School II (3)
 35377 Teaching Mathematics in the Elementary School (3)
 35379 Teaching Social Studies in the Elementary School (3)

Student Teaching Semester **12 credits**

In order to register for Student Teaching, the student must have received a grade no lower than "C-" in each one of the Professional Semester courses.

- 35404 Student Teaching Elementary, Pre-K-3 (6)
 35405 Student Teaching Elementary, 4-6 (6)

For additional information about student teaching, see the section on Teacher Education Programs in the front of this catalog.

Transfer Students

Students transferring to New Paltz may have special problems in fulfilling General Education requirements. They are referred to the Education Advisement office (OMB 105, 257-2805 or 257-2807) where they will be advised specifically on how to complete the General Education requirement.

New York State Teacher Certification**Examinations**

Effective September 2, 1993, prospective elementary school teachers (grades Pre-K-6) will be required to achieve a passing score on the Liberal Arts and Science Test (LAST) and on the elementary Assessment of Teaching Skills-Written (ATS-W) for the provisional certificate. To achieve the permanent certificate, candidates will be required to achieve passing scores on the Content Specialty Test (CST) in Elementary Education and on the Assessment of Teaching Skills-Performance (ATS-P). Information about the administration of these examinations can be obtained from the Office of Education Advisement, OMB 105, 257-2807.

Liberal Arts Designation

The following courses may be counted toward the undergraduate liberal arts requirement: 35508, 35510, 35511, 35512, 35530, 35595.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

35331 The Microcomputer in the Elementary Classroom (3)

Preservice education students learn to use broad application tool programs with elementary grade students. Programs examined include word processors for creative writing, spreadsheets for understanding math concepts, and databases for finding information and developing analytical skills. Other programs which enhance the usefulness of these three are also discussed.

35371 Developmentally Appropriate Practices (3)

Students will consider the cognitive and social development of children, preschool through 6th. grade, and the implications for curriculum planning, classroom management and organization. Students will develop competence in observing and assessing children's developmental competence and classroom performance by participating in appropriate classroom situations. Prerequisite: 38271 and 38272.

35375 Teaching Reading in the Elementary School I (3)

Introduction to the promotion of emergent literacy in the elementary classroom. Use of reading procedures, skills, techniques, and materials in lab situations, tutorial work, and microteaching. Prerequisite: 2.50 GPA and PC.

35376 Teaching Reading/Language Arts in the Elementary School II (3)

Effective ways to promote literacy through the integration of all the Language Arts (listening, speaking, reading, and writing). Emphasis is on the advantages and implications of linking the Language Arts, as well as classroom strategies and activities to tie the Language Arts together in a natural way. Prerequisite: GPA 2.50, PC and 35375.

35377 Teaching Mathematics in the Elementary School (3)
Procedures and materials for effective teaching of mathematics in early childhood and elementary grades. Prerequisite: 64140, 64240, 2.50 GPA and PC.

35378 Teaching Science in the Elementary School (3)
Procedures and materials for effective teaching of science in early childhood and elementary grades. Prerequisite: PC and 2.50 GPA.

35379 Teaching Social Studies in the Elementary School (3)
Procedures and materials for effective integrative teaching of social studies in early childhood and upper elementary grades. Prerequisite: PC and 2.50 GPA.

35404 Student Teaching Elementary, Pre-K-3 (6)
A full-time experience in the major area of teacher responsibility in kindergarten through grades three. Prerequisite: Successful completion of Professional Semester requirements and PI.

35405 Student Teaching Elementary, 4-6 (6)
A full-time experience in the major area of teacher responsibility in grades four through six. Prerequisite: Successful completion of Professional Semester requirements and PI.

Graduate Courses

35507 Creative Experience for Young Children (3)
Use of ideas, concepts, and materials to develop teachers' awareness of alternative creative approaches to curriculum experiences dealing with the self, the senses, and the environment for nursery school, kindergarten, and primary children. Prerequisite: Student teaching or TC (elementary).

35508 Language and Literature for Young Children (3)
Children's literature for the nursery school, kindergarten, and primary level. Total language arts program, including storytelling. Prerequisite: Student teaching or TC (elementary).

35511 Piaget's Theory & Application for Curriculum and Instruction in Elementary Classroom (3)
A study of the development stage from sensori-motor through formal operations, the relationship to intellectual, social, and moral development, and the application to curriculum development and materials. Use of clinical method with children. Prerequisite: TC.

35512 Children's Literature (3)
Available reading materials in the light of children's interest and capabilities; contribution of literature to child growth. Concentration may be made on particular grade levels. It is suggested that students in the reading specialization cover grade levels K-Middle School. Prerequisite: Student teaching or TC (elementary).

35516 Teaching Reading/Language Arts in the Elementary School (3)
The nature of a good reading language arts program in the elementary school; activities, methods, and materials for improving listening, oral language, and written communication. Prerequisite: Student teaching (elementary).

35517 Teaching Science in the Elementary School (3)
The nature of a good science program in the elementary school; selection and organization of science experiences of

particular importance to children. Effective procedures for promoting in children a lasting interest in science. Prerequisite: Student teaching or TC (elementary).

35518 Teaching Mathematics in the Elementary School (3)
Recent developments in the reorganization of mathematics programs in modern elementary schools. Research findings in effective classroom methods and materials for improving mathematics skills. Prerequisite: Student teaching or TC (elementary).

35519 Teaching Social Studies in the Elementary School (3)
Research findings in teaching social studies in the elementary school. Implications for improving organization of all school programs in social studies and selection of effective methods and materials of instruction. Prerequisite: Student teaching or TC (elementary).

35523 Reading in the Primary Grades (3)
Discusses the importance of language development and experiential background in the reading process. Emphasis is placed on early reading, language experience approaches and beginning developmental reading. An in-depth analysis of various methodologies for beginning reading instruction grades K-3 is provided. Prerequisite: Student teaching or TC (elementary).

35524 Reading in the Middle School (3)
Concentrates on the teaching of reading in grades 4-8. Provides an in-depth study of general comprehension strategies, study skills, recreational reading, and reading strategies appropriate for content areas. Instructional techniques, including diagnostic procedures, are an important part of the course. Prerequisite: 35515 and student teaching or TC.

35525 Fundamentals of Reading (3)
Presents an overview of the reading process. Discusses current models of reading. Emphasizes comprehension strategies and word recognition skills, along with an overview of diagnostic procedures, from early reading stages through the middle school years. This course is designed for graduate students who have no previous formal college-level course work in the teaching of reading. Open only to students who have never taken a reading course or have not taken a reading course in five years.

35526 Creative Writing for Elementary School Teachers (3)
Opportunities for teachers to do some writing of their own for children, in addition to studying approaches in helping children to write. Contemporary children's literature will be studied in regard to the various genres and styles of writing each type.

35530 Health and Drug Education: Problem-Solving (3)
Study of basic health and drug education information essential for teachers to cope constructively with related problems in home, school, community, and society. Particular emphasis on experience with effective techniques in adult-student interaction and communication in an open, sensitive, and realistic manner.

35540 Field Studies in Environmental/Outdoor Education (3)
Study common living organisms, relationships, and events readily observable in the child's urban and rural environment. Identify and study source material suitable for environmental programs for elementary school children.

35571 The Microcomputer as an Educational Tool (3)

The use of the computer to improve learning and teaching with "tool programs" such as word processors, spreadsheets, record keeping programs, tests and instructional material generators, telecommunications, and database programs. Includes discussion, and use of these programs on microcomputers in a laboratory. Prerequisite: TC or PI.

35581 Foundations of Bilingual/Bicultural Education (3)

Provides an overview of issues related to the education of limited English proficient students. The historical and legal foundations for bilingual education, models of bilingual education, and research findings regarding the effectiveness of bilingual education will be examined. Prerequisite: PI.

35583 Methods and Materials in Bilingual Education (3)

A review of the methods, techniques and materials for teaching in a bilingual setting. Includes methods and techniques for the teaching of mathematics, science and social studies in Spanish. Students will prepare and adapt materials for use in a bilingual classroom. Prerequisite: 35581, 36573, demonstrated proficiency in Spanish, and PI.

35585 Teaching Reading and Language Arts in a Bilingual Setting (3)

An analysis of the methods and materials for teaching reading and language arts in Spanish to bilingual students. Discussion will focus on the role of language and experience in reading instruction and on the effectiveness of native language reading instruction. Prerequisite: 35581, demonstrated proficiency in Spanish, and PI.

35589 Practicum in Bilingual Education (3)

A college-supervised experience in teaching in a bilingual setting required of all students in the Bilingual Education concentration during their final semester in the program. A research project based on the practicum experience will be required. Prerequisite: 35581, 35583, 35585, demonstrated proficiency in Spanish, and PI.

Secondary Education

Professor:

John H. Hain, Ed.D., Columbia University

Associate Professors:

Richard Reif, Ph.D., University of New Mexico

Louis Saraceno, Ph.D., University of Seville

Michael Whelan (Chair), Ed.D., Columbia University

Catharine Whittaker, Ph.D., Ohio State University

June Zuckerman, Ed.D., Columbia University

Assistant Professors:

Elaine Hofstetter, Ed.D., Columbia University

Mary Sawyer, Ph.D., SUNY-Albany

The Department of Secondary Education offers instruction leading to New York State provisional certification to teach the following in grades 7-12: English, foreign languages (French, German, and Spanish), mathematics, the sciences (biology, chemistry, earth science, and physics), and social studies. Certificates for teaching in New York State are appropriate for teaching in many other states.

Secondary education curriculum students typically develop a major in their discipline that is comparable to the corresponding major in the liberal arts curriculum. Students

also complete a 33-credit secondary education program that includes 30 semester credits in professional education and 3 semester credits in speech communication. Of the 30 credits in professional education, 18 are in course work stressing the development of appropriate knowledge and teaching abilities and 12 are given for student teaching in a public secondary school. These schools cooperate with the College in making the introduction to teaching rewarding and fruitful. Additional courses, including fieldwork, may be taken as electives.

For additional information about student teaching and certification, see the section on Teacher Education Programs in the front of this catalog.

Secondary education professors have advanced degrees in education and extensive teaching experience at both the college and secondary levels. The programs provide a sound liberal arts education and appropriate preparation for entrance into the profession of teaching in the secondary school, grades 7-12. All entering freshmen and transfer students interested in secondary education (7-12) should contact the department chair as soon as possible (OMB 204, 257-2850).

Contact Persons

- Dr. Mary Sawyer (English)OM 202B, 257-3114
- Dr. June Zuckerman (Sciences)OM 221, 257-2825
- Dr. Michael Whelan (Social Studies)OM 203D, 257-2852
- Dr. Louis Saraceno (Foreign Languages)FT 414, 257-3480
- Dr. Elaine Hofstetter (Mathematics)OM 308, 257-2856

The Program

33 credits

Courses in Educational Studies

- Required courses** **9 credits**
- 38340 Sociological and Philosophical Foundations (3)
- 38365 Psychology of Human Learning (3)
- 38372 The Developing Adolescent (3)

Courses in Secondary Education

- Required courses** **8 credits**
- 36352 Introduction to Secondary Education (2)
- 36453 Introduction to Educational Measurement and Evaluation (3)
- 36393 Computers in the Classroom (3)

Maximum of one substitution in this component may be made through advisement.

One of the following Speech Communication

- courses** **3 credits**
- 90104 Public Speaking (3)
- 90201 Voice and Articulation (3)
- 90213 Performance of Literature (3)

Methods**One of the following (taken the semester before****Student Teaching)3 credits**

36370	Teaching English in the Secondary School (3)
36371	Teaching French in the Secondary School (3)
36373	Teaching Social Studies in the Secondary School (3)
36374	Teaching Science in the Secondary School (3)
36375	Teaching Mathematics in the Secondary School (3)
36381	Teaching Spanish in the Secondary School (3)
36391	Teaching German in the Secondary School (3)

Student Teaching**Required courses12 credits**

36404	Student Teaching in the Junior High School (6)
36405	Student Teaching in the Senior High School (6)

Additional requirements:

Apply for a Student Teaching assignment one semester in advance: September for a spring assignment; February for the fall. OMB 107, Office of Student Teaching. In each case, application should be made during the first two weeks of the semester.

Successful completion of the New York State Certification Examination: Liberal Arts and Sciences Test (LAST) and Assessment of Teaching Skills-Written (ATS-W).

A requirement of 3-8 credits in the study of a language other than English must be met. Students with no previous language study must complete a two-semester sequence in a language; students who can be placed at an intermediate or advanced level must complete one course. (Please Note: The study of sign language satisfies the New York State teacher certification requirement but does not satisfy the College's general education requirement.)

A state-mandated workshop in recognizing and reporting symptoms of child abuse is required for all students.

Majors**■ Biology (7-12)**

65-72 credits

Required cognate courses35-38 credits

22201	General Chemistry I (4)
22202	General Chemistry II (4)
22305	Organic Chemistry I Lecture (3)
22306	Organic Chemistry I Lab (2)
64251	Calculus I (4)

OR

64254	Basic Calculus (4)
75221	Fundamental Physics I (4)
75222	Fundamental Physics II (4)
50220	Geological Processes (4)

One of the following:

22308	Organic Chemistry II Lecture (3)
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AND

22309	Organic Chemistry II Lab (2)
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OR

15318	Biological Chemistry (3)
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One of the following:

25210	Introduction to Computing (4)
25220	Introduction to Fortran Programming (3)
64241	Introductory Statistics (3)
64252	Calculus II (4)

Required biology courses23-25 credits

15201	General Biology I (4)
15202	General Biology II (4)
15320	Genetics (4)
15340	Ecology (4)

One of the following:

15305	Plant Morphology (4)
15307	Comparative Vertebrate Anatomy (5)

One of the following:

15413	General Physiology (3)
15423	Microbial Physiology (4)
15425	Plant Physiology (4)

Biology electives7-9 credits

Each major candidate is required to complete, by advisement, 2 biology courses above the 300 level.

■ Chemistry (7-12)

56-59 credits

Required cognate courses24 credits

15210	Introductory Biology (4)
50220	Geological Processes (4)
64251	Calculus I (4)
64252	Calculus II (4)
75201	General Physics I (4)
75202	General Physics II (4)

Required chemistry courses32-35 credits

22201	General Chemistry I (4)
22202	General Chemistry II (4)
22303	Introduction to Analytical Chemistry (5)
22305	Organic Chemistry I Lec (3)
22306	Organic Chemistry I Lab (2)
22308	Organic Chemistry II Lec (3)
22309	Organic Chemistry II Lab (2)
22321	Physical Chemistry I (3)
22322	Physical Chemistry II (3)
22323	Experimental Physical Chemistry (3)
22485	Seminars in Chemistry (0-3)

■ Earth Science (7-12)

63-68 credits

(Geology)

Required geological sciences courses37 credits**Geology core (21 credits)**

50220	Geologic Processes (4)
50240	Historical Geology (4)
50305	Paleontology/Stratigraphy (4)
50311	Mineralogy/Crystallography (4)
50331	Stratigraphy-Sedimentation (3)
50335	Stratigraphy-Sedimentation Laboratory (2)

Geology courses (16 credits)

50120	Weather and Environment (4)
50313	Optical Mineralogy (3)
50314	Petrology (3)
50316	Petrology Laboratory (2)
50338	Structural Geology (4)

Required cognate courses26-31 credits**I. Astronomy**

12201	Exploring the Solar System (3)
<i>OR</i>	
12202	Exploring the Universe (3)

2. Chemistry

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)

3. Mathematics

- 64251 Calculus I (4)
- OR
- 64241 Introduction to Statistics (3)

4. Physics

One of the following pairs:

- 75201 General Physics I (4)
- 75202 General Physics II (4)
- OR
- 75221 Fundamentals of Physics I (4)
- 75222 Fundamentals of Physics II (4)

5. Biology

- 15201 General Biology I* (4)
- AND
- 15202 General Biology II* (4)

** May substitute 15210 Introductory Biology (4)*

■ Earth Science (7-12)

59-65 credits
(Environmental Geology)

Required geological sciences courses37-38 credits

Geology core (21 credits)

- 50220 Geologic Processes (4)
- 50301 Historical Geology (4)
- 50305 Paleontology/Stratigraphy (4)
- 50311 Mineralogy/Crystallography (4)
- 50335 Stratigraphy-Sedimentation Laboratory (2)

Geology courses (16-17 credits)

- 50120 Weather and Environment (4)
- 50205 Environmental Geology (3)
- 50331 Stratigraphy-Sedimentation (3)
- 50339 Natural Resources & Energy (3)
- 50346 Conservation & Environmental Impact (3)
- 503XX One 300-level geology course by advisement (3-4)

Required cognate courses22-27 credits

1. Astronomy

- 12201 Exploring the Solar System (3)
- OR
- 12202 Exploring the Universe (3)

2. Mathematics

- 64241 Statistics (3)
- OR
- 64251 Calculus I (4)

Recommended: one computer science course

3. Physics

- 75221 Fundamental Physics I (4)

4. Chemistry

- 22201 General Chemistry I (4)
- 22202 General Chemistry II (4)

5. Biology

- 15201 General Biology I* (4)
- 15202 General Biology II* (4)

** May substitute 15210 Introductory Biology (4)*

■ English (7-12)

42 credits

Required courses27 credits

- 41200 Analysis and Interpretation of Literature (3)

- 41226 Practical Grammar (3)
- 41301 English Literature I (3)
- 90213 Performance of Literature (3)

One of the following:

- 41302 English Literature I (3)
- 41303 English Literature II (3)

Two of the following:

- 41331 American Literature I (3)
- 41332 American Literature II (3)
- 41333 American Literature III (3)

One of the following:

- 41406 Shakespeare I (3)
- 41407 Shakespeare II (3)

One of the following:

- 41224 Expository Writing (3)
- 41385 Theories of Writing (3)
- 53230 Journalism I (3)

Electives15 credits

Each major candidate must complete 5 elective courses in English, with the approval of the department advisor, with at least 2 courses at the 400 or 500 level. At least one half of the English courses must be completed at New Paltz. A "C" average in major courses is required.

■ French (7-12)

36-48 credits

Required courses24-36 credits

Basic language courses:

- 46101 Elementary French I (3)
- 46102 Elementary French II (3)
- 46201 Intermediate French I (3)
- 46202 Intermediate French II (3)

Students with prior training or experience in French may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department.

Required courses:

- 46301 French Composition and Conversation I (3)
- 46302 French Composition and Conversation II (3)
- 46313 French Literature I (3)
- 46314 French Literature II (3)
- 46319 French Civilization (3)
- 46404 Daily Life in France (3)
- 46416 French Literature III (3)

One of the following:

- 46401 Advanced French Composition/Conversation I (3)
- 46402 Advanced French Composition/Conversation II (3)

Electives12 credits

Each candidate is required to complete, by advisement, 4 courses at the 400 level or equivalent.

Candidates for certification must earn satisfactory scores on a proficiency test in French.

■ German (7-12)

33-45 credits

Basic language courses12 credits

- 52101 Elementary German I (3)
- 52102 Elementary German II (3)
- 52201 Intermediate German I (3)
- 52202 Intermediate German II (3)

Students with prior training or experience in German may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department.

Required courses18 credits

One of the following:

- 52311 German Composition/Conversation I (3)
52315 Advanced German [summer in Germany] (3)

One of the following:

- 52312 German Composition/Conversation II (3)
52401 Advanced German Composition [summer in Germany] (3)

One of the following:

- 58311 Modern Germany [History Dept.] (3)
52314 Contemporary German Civilization [summer in Germany] (3)

All of the following:

- 52316 Germany Today (3)
52406 Modern German Fiction (3)
52409 Nineteenth-Century German Plays (3)

Electives15 credits

Each major candidate is required to complete, by advisement, five elective courses in German studies (15 credits). At least three of these (9 credits) must be German courses at the 300 or 400 level, and up to two courses (6 credits) may be in cognate areas with a substantial German component. Such cognate areas include Art History, History, Music, Philosophy, Political Science and Sociology.

Candidates for certification must earn satisfactory scores on a proficiency examination offered through the Foreign Language Department. This is also a graduation requirement for all Secondary Education (7-12) Foreign Language majors.

■ Mathematics (7-12)

47-48 credits

Required courses47-48 credits

- 64251 Calculus I (4)
64252 Calculus II (4)
64253 Calculus III (4)
64260 Foundations of Mathematics I (3)
64301 Foundations of Mathematics II (3)
64321 Intermediate Analysis I (3)
64331 Axiomatic Geometry (3)
64362 Linear Algebra (3)
64363 Combinatorics (3)
64364 Introduction to Abstract Algebra I (3)
64381 Probability and Statistics I (3)

PLUS:

- 25104 Visual Programming (3)

OR

- 25210 Computer Science I: Foundations (4)

PLUS:

- 75201 General Physics I (4) AND

- 75202 General Physics II (4)

OR

- 75221 Fundamental Physics I (4) AND

- 75222 Fundamental Physics II (4)

Recommended, but not required, courses:

- 25210 Computer Science I: Foundations (4)
25310 Computer Science II: Data Structures (3)

■ Physics (7-12)

65-66 credits

Required physics courses32 credits

- 75201 General Physics I (4)
75202 General Physics II (4)
75301 Introductory Mathematical Physics (3)
75305 Computational Physics (3)
75309 Modern Physics (4)
75313 Electricity and Magnetism (3)
75411 Classical and Quantum Physics I (3)
75412 Classical and Quantum Physics II (3)
75424 Advanced Laboratory (2)
75491 Physics Senior Project (3)

Required cognate courses27 credits

- 22201 General Chemistry I (4)
22202 General Chemistry II (4)
25210 Computer Science I: Foundations (4)
64251 Calculus I (4)
64252 Calculus II (4)
64353 Calculus III (4)
64359 Ordinary Differential Equations (3)

Electives6-7 credits

Select one of the following:

- 12201 Exploring the Solar System (3)
12202 Exploring the Universe (3)
15201 General Biology I (4)
50220 Geological Processes (4)

AND

Select one of the following:

- 40210 Circuit Analysis I (3)
64375 Numerical Methods (3)
75322 Optics (3)
75402 Fluid Mechanics (3)
75422 Thermodynamics (3)
75429 Solid State Physics (3)
75432 Atomic and Nuclear Physics (3)

■ Social Studies (7-12)

45 credits

Required history courses21 credits

- 58221 The Young Republic (3)
58222 Modern America (3)
Two courses in European History by advisement only (6)
Three upper-division history courses (9)

Required cognate courses24 credits

Two courses from each of the following areas by advisement only: geography (6), political science (6), economics (6), area studies, defined as Asia, Africa, Latin America, Russia, the Middle East and American Indian (6).

Notes for Social Studies major

- All courses should have prior approval under History Department advisement.
- No selected topic or independent study courses to be used, except by special permission.
- Area studies consists of courses on Asia, Africa, Latin America, Russia, the Middle East and American Indian. This requirement may be met from courses in history, geography, political science, economics, or anthropology.

■ Spanish (7-12)

36-48 credits

Required courses24-36 credits**Basic Language courses:**

- 89101 Elementary Spanish I (3)
 89102 Elementary Spanish II (3)
 89201 Intermediate Spanish I (3)
 89202 Intermediate Spanish II (3)

Students with prior training or experience in Spanish may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department. Native speakers may substitute courses for native speakers for the above.

- 89301 Spanish Composition/Conversation I (3)
 (Native speakers should take Grammar and Composition for Native Speakers instead of 301.)
 89361 Spanish Composition/Conversation II (3)
 89365 Culture of Spain I (3)
 89372 Culture of Latin America I (3)
 89363 Spanish Phonetics and Oral Practice (3)
 (Required of all non-native speakers)

One of the following:

- 89367 Spanish Literature I (3)
 89368 Spanish Literature II (3)

One of the following:

- 89369 Spanish-American Literature I (3)
 89370 Spanish-American Literature II (3)

One of the following:

- 89468 Intensive Readings in the Literature of the Golden Age - Prose (3)
 89469 Intensive Readings in the Literature of the Golden Age - Prose (3)
 89470 The Generation of 1898 (3)
 89471 Spanish-American Novel (3)

Electives12 credits

Each major is required to complete by advisement 4 courses in Spanish at the 400 or 500 level.

Candidates for certification must earn satisfactory scores on a proficiency test in Spanish.

Liberal Arts Designation

The following Secondary Education courses may be counted toward the liberal arts requirement: 36295, 36453, 36495.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

36352 Introduction to Secondary Education (2)

This course provides an overview of schools and schooling for students in grades 7-12 organized around the three principle themes of school, teacher, and curriculum. A field component will allow for observations and discussions of these aspects of secondary education. Prerequisite: 38340 or 38373, and 38372.

36355 Introduction to Reading and Writing in the Secondary School (2)

Before student teaching, students learn to assess reading skills, evaluate curricular materials in terms of appropriateness for reading levels, and use reading techniques in the planning of instruction. Prerequisite: 38340 or 38373, and 38372.

36370 Teaching English in the Secondary School (3)

Purposes, materials, and techniques for effective teaching of English in the secondary school. Analysis of relevant research. Field experiences. Prerequisite: PI.

36371 Teaching French in the Secondary School (3)

An analysis of objectives, procedures, and materials for teaching French in the secondary school. Prerequisite: 38340 or 38373, 38372, 38365, and PI.

36373 Teaching Social Studies in the Secondary School (3)

Purposes, materials, and techniques for effective teaching of the social studies in the secondary school. Prerequisite: PI.

36374 Teaching Science in the Secondary School (3)

Constructivist views of science, science learning, and science teaching. Strategies for planning, managing, and assessing instruction especially for pupils demonstrating a wide range of backgrounds and abilities. Field experiences. Prerequisite: PI.

36375 Teaching Mathematics in the Secondary School (3)

Purposes, materials, and techniques for effective teaching of secondary school mathematics. Analysis of relevant research. Field experiences. Prerequisite: PI.

36381 Teaching Spanish in the Secondary School (3)

An analysis of objectives, procedures, and materials for teaching Spanish in the secondary school. Prerequisite: 38340 and 38373, 38372, 38365, and PI.

36391 Teaching German in the Secondary School (3)

An analysis of objectives, procedures, and materials for teaching German in the secondary school. Prerequisite: 38340 or 38373, 38372, 38365, and PI.

36403 Student Teaching - Senior High School Science (12)

A full-time experience in the major areas of teacher responsibility in secondary school science. Prerequisite: PI, "B" in methods course, 2.75 in Education courses, 2.50 in major, 2.50 cumulative average, completion of major and curriculum requirements.

36404 Student Teaching Secondary, 7-9 (6)

A full-time experience in the major areas of teacher responsibility in grades 7-9. Prerequisite: Appropriate methods in Department of Secondary Education, 38365 and PI. Prerequisite: PI, "B" in methods course, 2.75 in Education courses, 2.50 in major, 2.50 cumulative average, completion of major and curriculum requirements.

36405 Student Teaching Secondary 10-12 (6)

A full-time experience in the major areas of teacher responsibility in grades 10-12. Prerequisite: PI, "B" in methods course, 2.75 in Education courses, 2.50 in major, 2.50 cumulative average, completion of major and curriculum requirements.

36453 Introduction to Educational Measurement and Evaluation (3)

Introduction to basic concepts and principles of educational measurement and evaluation. Design, construction, and use of teacher-made achievement, mastery, and diagnostic tests. Test data analysis and interpretation. Prerequisite: 38340 or 38373, and 38372.

Graduate Courses

36541 Constructing Scientific Conceptual Knowledge (3)

A study of the nature of science and the ways students learn about science. Topics include students' conceptions (and misconceptions) about natural phenomena and instructional strategies to promote meaningful learning, especially conceptual change. Prerequisite: Baccalaureate degree with a major in a natural science or the equivalent.

36542 Meaningful Problem Solving in Science (3)

A study of how students solve science problems and how teachers can enhance the likelihood that their students will solve such problems meaningfully, i.e., by understanding the relevant concepts rather than by mechanically following a prescribed set of rules. Prerequisite: Baccalaureate degree with a major in a natural science or the equivalent.

36543 Science in the Secondary School (3)

Constructivist views of science, science learning, and science teaching. Strategies for planning, managing, and assessing instruction especially for pupils demonstrating a wide range of backgrounds and abilities. Field experiences. Readings from the science education literature. Prerequisite: 12 graduate credits of professional education and PI.

36545 Mathematics in the Secondary School (3)

This course will provide methods and techniques for effective teaching of mathematics in the secondary school. It will help the pre-service teacher develop the knowledge, skills and attitudes necessary for successful mathematics teaching. Field experiences. Prerequisite: PI.

36546 Social Studies in the Secondary School (3)

This course will provide methods and techniques for effective teaching of social studies in the secondary school. It will help the pre-service teacher develop the knowledge, skills and attitudes necessary for successful social studies teaching. Students will prepare lesson plans, projects, activities, etc., that illustrate how subject matter content can be transformed for purposes of instruction. Prerequisite: PI.

36548 Reading Instruction in the Secondary School (3)

Initiation, organization, and development of secondary reading programs. Interpretation and use of reading tests. Selection of appropriate reading materials. Teaching approaches. Correction and remediation of reading disabilities. Prerequisite: 38372.

36549 Teaching Reading in the Content Areas (3)

Classroom teachers structure regular subject matter instruction to maximize the development of reading skills. Evaluation of subject matter materials appropriate to the skill levels of the students and approaches to adjusting such materials. Prerequisite: 35515 and 36548 recommended.

36550 Teaching Mathematics to Low Achievers (3)

Special instructional strategies and tactics for effective teaching of low achievers in mathematics. Prerequisite: Teaching certificate 7-12 math or PI.

36557 Computers in Secondary School Mathematics Education (3)

Study the various ways of analyzing mathematics software, teaching programming and developing applications of the computer as it relates to the NYS Mathematics curriculum. Prerequisite: TC 7-12 Math or PI.

36559 Problem Solving for Mathematics Teachers (3)

Problem solving is a major focus of the current upper elementary and secondary mathematics curricula. A study and investigation of methods for solving problems in mathematics, and teaching these problem solving skills to our students. Prerequisite: TC 7-12 Math or PI.

36561 Curriculum History of Social Studies Education (3)

An historical investigation of curriculum issues in social studies education with special attention given to social studies' evolving rationale from the Progressive Era to the present.

36563 Curriculum Content Issues in History Education (3)

Students will investigate two sets of related issues: the nature of history as a means of understanding; and some ways historical content may be organized for purposes of instruction.

36573 Teaching English as a Second Language (3)

Procedures and material for teaching English to native speakers of other languages. Prerequisite: Demonstrated competence in spoken and written English and one of the following courses: 63201, 63302, 63304, 63306, 90302, or 41526.

36575 Teaching Reading in English as a Second Language (3)

An examination of the problems of and techniques for teaching reading in English as a second language and for teaching reading to students who speak a standard of English different from that taught in the classroom. Teaching listening comprehension and production of English sounds, and English sound/symbol relationship. Relevant research will be examined.

36576 Teaching English as a Second Language II (3)

A review of the methodology, materials and evaluation procedures for teaching English to speakers of other languages, including methods and techniques for the teaching of mathematics, science and social studies in English to speakers of languages other than English. Students will assess and develop instructional materials for ESL students. Prerequisite: Recommended 35377, 35378, 35379 or 35517, 35518, 35519 or 36373, 36374, 36375, 36573 - PI.

36577 Applied Linguistics for ESL Teachers (3)

Designed to provide teachers with a systematic understanding of English syntax. The role of grammar in language teaching and its implications for writing, reading and oral communication will be examined. Included will be a review of techniques and materials for teaching English grammar to non-native English speakers. Prerequisite: 36573, 63201, and PI.

36578 Second Language Learning (3)

Discussion of the psychological, sociological and anthropological aspects of language. Provides an overview of bilingualism and second language acquisition theory and research as related to the teaching and learning of other languages. Prerequisite: 36573, 63201, and PI.

36579 Practicum in Teaching English as a Second Language (6)

A college-supervised experience in the Teaching of English to Speakers of Other Languages required of all students in the TESOL concentration during their final semester. A research project based on the practicum experience will be required. Prerequisite: 36573, 36575, 36576, 36577, demonstrated proficiency in English, and PI.

Center for Academic Development and Learning

Administrative and Instructional Staff:

Lee Cross, Ed.D., Seton Hall University
 Sarah Gardner, M.A., M.S., SUNY-New Paltz
 Ken Gillman, M.S., SUNY-New Paltz
 Geoffrey Gordon, M.A., New York University
 Susan Karl, M.S., Long Island University
 Richard Kelder, M.A., SUNY-New Paltz

The Center for Academic Development and Learning is funded primarily by a United States Department of Education (USED) Student Support Services Grant. Eligibility for the grant program may be based on academic consideration, financial consideration or other parameters as determined by the United States Department of Education guidelines. Students who meet the eligibility criteria are provided with a comprehensive academic assistance program that includes a multidisciplinary tutorial program, a writing center, direct instruction in critical thinking and Introduction to Basic Algebra, and a support system for the learning disabled. A major goal of the department's staff is to challenge students to fulfill their academic potential by becoming self-sufficient critical thinkers and active learners.

Professional Staff and Offices

Ken Gillman,
 Project DirectorHUM 120, 257-3591
 Richard Kelder,
 Curriculum CoordinatorHUM 110, 257-3590
 Sarah Gardner,
 Critical Thinking SpecialistHUM 109, 257-3588
 Lee Cross,
 Writing Specialist.....HUM B-2, 257-3580
 Geoffrey Gordon,
 Tutorial CoordinatorHUM B-2, 257-3580
 Susan Karl,
 Learning SpecialistHUM 114, 257-3580

Academic Support Programs

Academic Skills and Knowledge Assessment

All first-year students are expected to demonstrate a high level of proficiency on placement examinations in critical thinking and mathematics. Placement examinations are evaluated by the academic support staff and college faculty during orientation sessions. Students who demonstrate academic weaknesses or gaps in knowledge are required to enroll in critical thinking and introductory-level mathematics courses that will ensure their academic success at the College.

Course Descriptions

30011 College Learning Techniques (3)

Various learning strategies will be presented. Students will apply strategies to note-taking, test preparation, reading, and thinking activities of the concurrent courses. Prerequisite: PI.

30015 Critical Thinking 1 (3)

This course is designed to teach students the higher-order thinking skills that are necessary for academic success. Through the interaction of reading and writing assignments based on specific academic content, students will develop "discipline-specific" thinking skills that can be transferred to other academic contexts across the curriculum. Prerequisite: PI and freshman.

30016 Critical Thinking 2 (3)

This course is designed to build on the skills learned in Critical Thinking 1 and further develop the higher-order thinking skills that are necessary for academic success. Through the interaction of reading and writing assignments based on specific academic content, students will develop "discipline-specific" thinking skills that can be transferred to other contexts across the curriculum. Prerequisite: PI and freshman.

30020 Introduction to Basic Algebra (4)

This course will establish a foundation for algebraic concepts by beginning with intensive instruction in computational skills and geometric concepts. Students will study the concepts of exponents, algebraic expressions, factoring, rational expressions, linear equations and inequalities in one or two variables, quadratic equations, etc. Students who complete the requirements for this course will take the Basic Algebra Common Final Examination at the end of the semester. Prerequisite: PI.

Academic Support for Students with Learning Disabilities and Physically Handicapped Students

The goal of the Learning Specialist's Office is to assist students with disabilities in becoming independent and successful learners within the college curriculum. Students with documented learning and/or physical disabilities are eligible to receive services based on academic need. These services range from instruction in learning strategies, time management, and test-taking to content-area tutoring and writing assistance. The Learning Specialist offers workshops on self-advocacy, computer technology, and issues related to disability.

Students with documented disabilities are legally entitled through the Americans with Disabilities Act (ADA) to receive reasonable accommodations for the learning and testing process. The Learning Specialist works to provide scribes, alternative testing arrangements, or proctors, and serves as a liaison to the faculty on behalf of the student.

Academic Workshops and Modular Courses

Each semester the teaching staff of the Academic Assistance Center designs instructional workshops in a variety of academic courses and subject areas to support the needs of faculty and students.

Multidisciplinary Tutoring Center

Individual and small group tutoring is offered for academic courses in a wide variety of disciplines. The tutorial program utilizes a peer-tutorial model and maintains high standards in the selection and training of its staff.

The Writing Center

The Writing Center provides students with an opportunity to improve their writing skills. Designed as a support service, the Writing Center helps students clarify meaning and consider the effectiveness of their writing with regard to purpose and audience.

Under the supervision of the Writing Specialist, peer tutors provide individual or small group instruction to students enrolled in English Composition and English as a Second Language, as well as content courses that require writing.

Haggerty Institute English as a Second Language Program

Staff:

Ellen Bitterman, M.S., SUNY-Albany
 Beatrice Conover, M.S., SUNY-Albany
 Lan Ying Fan (Director), M.A. Peking University, M.S., SUNY-Albany
 Christine Krug, M.S., SUNY-New Paltz
 Lisa Rost, M.A., Eastern Michigan
 Vern Todd, M.A., New York University, M.A., Middlebury

The Haggerty Institute — English as a Second Language Program provides instruction contributing to the development of English language proficiency required by students to succeed in college courses and chosen areas of study in an English-speaking society. The ESL Program also facilitates the effective participation of non-native speakers in their professions and daily lives.

International applicants who are not qualified for admission to a degree program because their English proficiency is limited, may be admitted to the Haggerty Institute to study English as a Second Language (ESL) for one or more semesters while they acquire a level of proficiency in English considered adequate for successful participation in a full-time academic program. The Haggerty Institute provides English language training at four levels, elementary, intermediate, advanced and English for academic purposes for both full-time and part-time students. In addition to instruction in all skill areas (listening, speaking, reading, writing and grammar), the program also includes cultural activities, tutoring, computer assisted language learning and language lab. With the permission of the coordinator, advanced and academic purposes level students may take academic courses while enrolled in the Haggerty Institute. However, enrollment in the Haggerty Institute does not constitute admission to the College.

Non-native English speakers who are admitted to the College will be tested to assess their English proficiency upon arrival. While some students may not be required to take any English as a Second Language courses, others may require one or more semesters to complete their ESL requirements. Furthermore, students enrolled in ESL classes are limited to a semester workload of 15 units. During their first semester, international students are also required to take an eight week orientation course familiarizing them with New Paltz, the College and American life.

Course Descriptions

42011 ESL Elementary Grammar (0)

A single skill module for beginning English as a Second Language students. Language structures appropriate to the students' level and needs will be introduced and practiced in communicative situations. This module will be combined with others to form a complete program of language acquisition based on the students' assessed needs. Placement by exam. Prerequisite: PI.

42021 ESL Intermediate Grammar (0)

A single skill module for ESL students with some English language proficiency as assessed by the ESL placement battery. Language structures appropriate to the students' level and needs will be analyzed and practiced in communicative contexts. The module will be combined with others to form a complete program of language acquisition based on the students' assessed needs. Prerequisite: PI.

42022 ESL Intermediate Reading and Writing (0)

An integrated skills course for ESL students with some English language proficiency. Topics for written interpersonal communication as well as those related to academic disciplines will be addressed. This module will be combined with others to form a complete program of language acquisition based on the students' assessed needs. Placement by exam. Prerequisite: PI.

42023 ESL Intermediate Listening and Speaking (0)

An integrated oral/aural communication skills course for ESL students with some language proficiency. Topics for spoken interpersonal communication as well as those related to academic disciplines will be addressed. This module will be combined with others to form a complete program of language acquisition based on the students' assessed needs. Placement by examination. Prerequisite: PI.

42024 ESL Intermediate Current Events (0)

An integrated skills course for ESL students with some English language proficiency. With the assistance of educational technology, including audio and visual equipment, students will strengthen the skills being developed in their other ESL classes. This module will be combined with others to form a complete program of language acquisition based on the students' assessed needs. Placement by examination. Prerequisite: PI.

42031 ESL Advanced Grammar (0)

A single skill module for ESL students with considerable English language proficiency as assessed by the ESL placement test battery. Language structures appropriate to the students' level and needs will be analyzed and practiced through a variety of exercised reflective of authentic usage in various settings. Prerequisite: PI.

42032 ESL Advanced Reading and Writing (0)

An integrated skills course for ESL students with considerable English language proficiency as assessed by the ESL placement test battery. This course will concentrate on developing the reading and writing skills necessary for participating in college-level academic classes. Prerequisite: PI. Corequisite: 42033.

42033 ESL Advanced Listening and Speaking (0)

An integrated oral/aural communication skills course for ESL students with considerable language proficiency as assessed by the ESL placement test battery. This course will concentrate on developing the listening and speaking skills necessary for participating in college-level academic classes. Prerequisite: PI. Corequisite: 42032.

42034 ESL Advanced Current Events (0)

An integrated skills course for ESL students with considerable English Language proficiency. With the assistance of educational technology, including audio and video equipment, students will strengthen the language skills being developed in their other ESL and academic classes. Placement by examination. Prerequisite: PL.

Engineering and Business Administration

Owen Hill, Dean; Hadi Salavitabar, Associate Dean

Electrical Engineering Computer Engineering

Professors:

Owen Hill (Dean/Director), Ph.D., University of California-Berkeley
Ghader Eftekhari, Ph.D., University of Nottingham, England
Hassan A. Kalhor, Ph.D., University of California-Berkeley

Associate Professors:

Mohammad Saed, Ph.D., Virginia Polytechnic University
Faramarz Vaziri, Ph.D., University of Houston

Assistant Professors:

Julio Gonzalez, Ph.D., Colorado State University
Waleed Smari, Ph.D., Syracuse University

Computer Engineering

The Department offers a comprehensive program in computer engineering. The computer engineering program is not currently accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). The program will be eligible for review for accreditation upon graduation of the first computer engineering major. Completion of the accreditation process is anticipated by September 2000. Students have the opportunity to choose electives in micro-electronics, communications, signal processing, control, robotics, energy conversion, computers, VLSI design and electromagnetics in addition to computer engineering.

Computer engineering is a growth program in the field of engineering, due to a rapidly changing technological society and expanding industrial needs. The New Paltz program is designed to meet these needs generally, and those of the mid-Hudson valley specifically. Engineering students graduate with a high level of technical competence combined with a liberal arts education that helps to develop managerial or research potential. The engineering curriculum ensures that our students will gain a solid background in the humanities and social sciences to complement their professional studies and to provide them with the knowledge and skill necessary to adapt to a changing world.

A key feature of engineering at New Paltz is the close working relationship the College enjoys with local high technology industry. The interest and support of industry inspired the development of the program and now ensures that it will remain relevant to expanding and changing industrial needs.

The flexible curriculum of the engineering program is designed to serve full- and part-time students, traditional and non-traditional college-age students, and students new to engineering as well as those who have had some experience in technical areas.

Engineering students are educated in mathematics, computer science and the physical sciences under the direction of faculty from appropriate departments, while engineering courses are

taught by a research-oriented engineering faculty. This program prepares graduates for entry-level positions in operations, support, research, and development, as well as for graduate studies.

The curriculum consists of a humanities and social sciences component, a pre-engineering phase (pre-engineering major code 518P), and upper-division engineering course work (computer engineering major code 518). Computer engineering students are not required to meet General Education 2. Instead, they must meet the pre-engineering requirements (see "Pre-Engineering Requirement") for mathematics and science and the Humanities/Social Sciences requirement (see "Humanities and Social Sciences Component"). The pre-engineering and Humanities/Social Sciences requirement are exactly the same for the electrical engineering and computer engineering programs.

Computer Engineering Curriculum

133-139 credits

Humanities and Social Sciences	16-21 credits
Pre-Engineering	38 credits
Computer Engineering Core	65-66 credits
Technical Electives	14 credits

Although it is possible for a dedicated student to complete all degree requirements in four years, our students, like those at most engineering schools in the United States, typically require an additional semester to complete the program.

Humanities and Social Sciences

Component 16-21 credits
Humanities and social sciences courses are an integral part of the engineering curriculum. Students must complete the following course work:

- Modern World Studies (58101) (4)
- Language Requirement¹ (3-8)
- A three semester sequence of electives chosen from the social sciences or humanities. A list of acceptable sequences is available in the Office of Engineering Programs. (9)

These courses provide a breadth of knowledge necessary for the engineer to be a well-educated member of contemporary society.

Pre-Engineering Requirement 38 credits

The pre-engineering course of study consists of 38 credits in mathematics, computer science, physics, chemistry, introductory engineering, and English. The required courses are:

Mathematics²

- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 64383 Calculus III (4)

Computer Science

- 25210 Computer Science I: Foundations (4)

Physics

- 75201 General Physics I (4)
- 75202 General Physics II (4)

Chemistry

- 22201 General Chemistry I (4)

Engineering

- 47101 Introduction to Engineering Science (2)
- 47201 Engineering Graphics (2)

English

- 41160 Freshman Composition I (3)
- 41180 Freshman Composition II (3)
- OR
- 41205 General Honors English I (3)
- 41206 General Honors English II (3)

Admission to the Computer Engineering Major

Students completing the pre-engineering sequence with a grade point average of 2.50 or above are eligible for admission to the Computer Engineering Program (major code 518³). Grades below "C-" are not accepted toward fulfillment of the pre-engineering requirement.

Students are strongly advised to complete at least six credits of humanities and social sciences (see "Humanities and Social Sciences Component") before applying for admission to the major.

The admission of transfer students will be based on a detailed comparison of their transcript with the New Paltz pre-engineering requirements.

Departmental Academic Policies

Pre-engineering students may not enroll in engineering or engineering-related courses other than 47101, 47201 and 47309. Exceptions are frequently granted for Circuits Laboratory (40209), Circuit Analysis I (40210), Digital Logic Laboratory (40208), Digital Logic Design (40230), Ordinary Differential Equations [ODE] (64359), Linear Algebra and Systems of ODE (64385), and Data Structures (25310). Permission to register in any of these courses must be obtained from the department before registration.

Students may not enroll in any engineering course unless all prerequisites have been met with a grade of "C-" or better. Only one course in which a "D" grade has been earned may be used toward the fulfillment of computer engineering degree requirements.

Courses taken on a Satisfactory/Unsatisfactory basis cannot be applied to meet the engineering degree requirements.

Engineering Design and Engineering Science

The Accreditation Board for Engineering and Technology (ABET) requires that each student have a minimum of forty-

eight credits of "Engineering Topics" comprised of appropriate amounts of engineering design and engineering science. Our engineering programs require sixteen or more credits of engineering design.

It is the student's responsibility to choose his or her technical electives such that these minimum requirements are met. The engineering design and engineering science credit distribution for all engineering core and technical elective courses are included in the course listings. In addition, each student is required to maintain a design folder⁴ on file in the Office of Engineering Programs (WSB 3) which, at the time of graduation, must contain a minimum of five design projects. This is a strict graduation requirement.

Engineering Design and the Senior Design Project

Engineering is based on the design process and at New Paltz design is integrated throughout the computer engineering curriculum. The experience begins in Introduction to Engineering Science, with a general introduction to engineering design. As the computer engineering majors progress through the major they gain engineering design experience at increasing levels of complexity within the context of many of the computer engineering core and technical elective courses. In the senior year, the design experience culminates in a major design project, Senior Design 1 & 2. Under the guidance of the engineering faculty, students draw on the technical knowledge and skills that they have accumulated and developed throughout the undergraduate experience in order to identify and complete a substantial design project. Senior design projects are chosen from any of the areas of specialization in which the Department offers technical elective courses.

Upper-Division Computer Engineering Requirements

The upper-division engineering course work, which leads to the Bachelor of Science degree in Computer Engineering, consists of the computer engineering core and a series of technical electives.

Computer Engineering

Core Curriculum65-66 credits

The following courses constitute the electrical engineering core:

	<i>Design Credits</i>	<i>Eng/Sci Credits</i>
40208 Digital Logic Laboratory (1)	0.5	0.5
40209 Circuits Laboratory (1)	0.5	0.5
40210 Circuit Analysis I (3)	0.5	2.5
40230 Digital Logic Design (3)	1.0	2.0
40308 Microprocessor Laboratory (1)	0.5	0.5
40310 Circuit Analysis II (3)	0.5	2.5
40311 Linear Systems (3)	0.5	2.5
40320 Electronics I ⁵ (4)	1.5	2.5
40321 Electronics II ⁵ (4)	1.5	2.5
40331 Microprocessor System Design (3)	1.5	1.5
40408 Senior Design Project I ⁶ (2)	2.0	0
40409 Senior Design Project II ⁶ (4)	4.0	0
40432 Computer Systems Design I (3)	1.0	2.0
40433 Computer Systems Design II (3)	1.0	2.0
404XX Student Design Folder (S/U) ⁴ (0)	0	0
453XX Signal Transmission (3)	0	3.0
47309 Technical Communications (2)	0	0

25310	Data Structures (3)	0.5	2.5
64359	Ordinary Differential Equations (3)	0	0
64381	Probability and Statistics I ⁷ (3)	0	0
64385	Linear Algebra and Systems of ODE (3)	0	0.5
75393	Modern Physics (3)	0	4.0
XXXXX	Mechanical Engineering ⁸ (3 or 4)	1.0	2.0
		18.0	32.0

Computer Science Technical Electives 14 credits

Fourteen credits of technical electives are required which must include at least one electrical engineering (40XXX) lecture course (3 credits) and one electrical engineering (40XXX) laboratory (1 credit). Students must obtain the advice of their advisor about their choice of electives before registering.

Lecture Group:

		Design Credits	Eng/Sci Credits
40312	Communication Systems (3)	1.0	2.0
40316	Control Systems I (3)	1.0	2.0
40317	Digital Control Systems (3)	1.0	2.0
40332	Discrete Time Systems (3)	1.0	2.0
40342	Microwaves I (3)	1.0	2.0
40416	Modern Control Systems (3)	1.0	2.0
40417	Robotics I (3)	1.0	2.0
40423	Digital Integrated Circuits (3)	1.0	2.0
40425	Advanced Electronics (3)	1.0	2.0
40435	VLSI Design (3)	1.0	2.0
40436	Microelectronics Technology (3)	1.0	2.0
40443	Microwaves II (3)	1.0	2.0
40444	Engineering Optics (3)	1.0	2.0
40445	Antenna Systems (3)	1.0	2.0
40451	Electromechanical		
	Energy Conversion (3)	1.0	2.0
40452	Electric Power Systems (3)	1.0	2.0
404XX	Solid State Devices (3)	1.0	2.0
454XX	Computer Packaging (3)	0.5	2.5
47405	Engineering Accounting (3)	0	1.0
474XX	Statistical Process Control ⁷ (3)	1.0	2.0
474XX	Design of Experiments (3)	1.5	1.5
25340	Operating Systems I (3)	1.0	2.0
25341	Operating Systems II (3)	1.0	2.0
25410	Design and Analysis of Algorithms (3)	0	1.0
25420	Languages and Machines (3)	1.0	1.0
25450	Design of Programming Languages (3)	0	1.0
64375	Numerical Methods (3)	0	1.0
64382	Probability/Statistics II (3)	0	1.0
64488	Partial Differential Equations (3)	0	1.0

Laboratory Group:

40301	Engineering Optics (1)	0	1.0
40302	Antennas (1)	0	1.0
40303	Microwaves I (1)	0.5	0.5
40304	Control (1)	0	1.0
40305	Communication (1)	0	1.0
40306	Microwaves II (1)	0.5	0.5
40401	VLSI Design (1)	1.0	0
40404	Robotics (1)	0.5	0.5
404XX	Microelectronics Technology (1)	0	1.0
404XX	Computer Systems (1)	0.5	0.5
454XX	Computer Packaging (1)	0.5	0.5
474XX	Simulation & Measurement		
	Laboratory (1)	0.5	0.5

Electrical Engineering

The department offers a comprehensive program in electrical engineering. The Electrical Engineering program is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET). Students may choose electives in micro-electronics, communications, signal processing, control, robotics, energy conversion, computer engineering, VLSI design and electromagnetics.

Electrical engineering continues to be a growth program in the field of engineering, due to a rapidly changing technological society and expanding industrial needs. The New Paltz program is designed to meet these needs generally, and those of the mid-Hudson valley specifically. Engineering students graduate with a high level of technical competence combined with a liberal arts education that helps to develop managerial or research potential. The engineering curriculum ensures that our students gain a solid background in the humanities and social sciences to complement their professional studies and to provide them with the knowledge and skill necessary to adapt to a changing world.

A key feature of engineering at New Paltz is the close working relationship the College enjoys with the local high technology industry. The interest and support of industry inspired the development of the program and now ensures that it will remain relevant to expanding and changing industrial needs.

The flexible curriculum of the engineering program is designed to serve full- and part-time students, traditional and non-traditional college-age students, and students new to engineering as well as those who have had some experience in technical areas.

Engineering students receive their education in mathematics and the sciences under the direction of faculty from appropriate departments, while engineering courses are taught by a research-oriented engineering faculty. This program prepares graduates for entry-level positions in manufacturing, research and development, as well as for graduate studies.

The curriculum consists of a humanities and social sciences component, a pre-engineering phase (pre-engineering major code 517P), and upper-division engineering course work (electrical engineering major code 517). Electrical engineering students are not required to meet General Education 2.

Instead, they must meet the pre-engineering requirements for mathematics and science and the Humanities/Social Sciences requirement. The pre-engineering and Humanities/Social Sciences requirements are exactly the same for the electrical engineering and computer engineering programs.

Electrical Engineering Curriculum

130-136 credits

Humanities and Social Sciences	16-21 credits
Pre-Engineering	38 credits
Electrical Engineering Core	56-57 credits
Technical Electives	20 credits

Although it is possible for a dedicated student to complete all degree requirements in four years, our students, like those at most engineering schools in the United States, typically require an additional semester to complete the program.

Humanities and Social Sciences Component 16-21 credits
Humanities and social sciences courses are an integral part of the engineering curriculum. Students must complete the following course work:

- Modern World Studies (58101) (4)
- Language Requirement¹ (3-8)
- A three semester sequence of electives chosen from the social sciences or humanities. A list of acceptable sequences is available in the Engineering Department. (9)

These courses provide a breadth of knowledge necessary for the engineer to be a well-educated member of contemporary society.

Pre-Engineering Requirement 38 credits

The pre-engineering course of study consists of 38 credits in mathematics, computer science, physics, chemistry, introductory engineering, and English. The required courses are:

Mathematics²

64251	Calculus I (4)
64252	Calculus II (4)
64383	Calculus III (4)

Computer Science

25210	Computer Science I: Foundations (4)
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Physics

75201	General Physics I (4)
75202	General Physics II (4)

Chemistry

22201	General Chemistry I (4)
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Engineering

47101	Introduction to Engineering Science (2)
47201	Engineering Graphics (2)

English

41160	Freshman Composition I (3)
41180	Freshman Composition II (3)
<i>OR</i>	
41205	General Honors English I (3)
41206	General Honors English II (3)

Admission to the Electrical Engineering Major

Students completing the pre-engineering sequence with a grade point average of 2.50 or above are eligible for admission to the Electrical Engineering program (major code 517³). Grades below "C-" are not accepted toward fulfillment of the pre-engineering requirement.

Students are strongly advised to complete at least six credits of humanities and social sciences (see "Humanities and Social Sciences Component") before applying for admission to an engineering major.

The admission of transfer students will be based on a detailed comparison of their transcript with the New Paltz pre-engineering requirements.

Departmental Academic Policies

Pre-engineering students may not enroll in engineering or engineering-related courses other than 47101, 47201 and 47309. Exceptions are frequently granted for Circuits

Laboratory (40209), Circuit Analysis I (40210), Digital Logic Laboratory (40208), Digital Logic Design (40230), Ordinary Differential Equations [ODE] (64359), Linear Algebra and Systems of ODE (64385), and Data Structures (25310). Permission to register in any of these courses must be obtained from the department before registration.

Students may not enroll in any engineering course unless all prerequisites have been met with a grade of "C-" or better. Only one course in which a "D" grade has been earned may be used toward the fulfillment of electrical engineering degree requirements.

Engineering Design and Engineering Science

The Accreditation Board for Engineering and Technology (ABET) requires that each student have a minimum of forty-eight credits of "Engineering Topics" comprised of appropriate amounts of engineering design and engineering science. Our engineering programs require sixteen or more credits of engineering design.

It is the student's responsibility to choose his or her technical electives such that these minimum requirements are met. The engineering design and engineering science credit distribution for all engineering core and technical elective courses are included in the course listings. In addition, each student is required to maintain a design folder⁴ on file in the Office of Engineering Programs (WSB 3) which, at the time of graduation, must contain a minimum of five design projects. This is a strict graduation requirement.

Engineering Design and the Senior Design Project

Engineering is based on the design process and at New Paltz design is integrated throughout the computer engineering curriculum. The experience begins in Introduction to Engineering Science, with a general introduction to engineering design. As the computer engineering majors progress through the major they gain engineering design experience at increasing levels of complexity within the context of many of the computer engineering core and technical elective courses. In the senior year, the design experience culminates in a major design project, Senior Design 1 & 2. Under the guidance of the engineering faculty, students draw on the technical knowledge and skills that they have accumulated and developed throughout the undergraduate experience in order to identify and complete a substantial design project. Senior design projects are chosen from any of the areas of specialization in which the Department offers technical elective courses.

Upper-Division Electrical Engineering Requirement

The upper-division electrical engineering course work, which leads to the Bachelor of Science degree in Electrical Engineering, consists of the electrical engineering core and a series of technical electives.

Electrical Engineering

Core Curriculum 56-57 credits

The following courses constitute the electrical engineering core:

	<i>Design Credits</i>	<i>Eng/Sci Credits</i>
40208	Digital Logic Laboratory (1)	0.5 0.5
40209	Circuits Laboratory (1)	0.5 0.5
40210	Circuit Analysis I (3)	0.5 2.5
40230	Digital Logic Design (3)	1.0 2.0
40308	Microprocessor Laboratory (1)	0.5 0.5
40310	Circuit Analysis II (3)	0.5 2.5
40311	Linear Systems (3)	0.5 2.5
40320	Electronics I ⁵ (4)	1.5 2.5
40321	Electronics II ⁵ (4)	1.5 2.5
40331	Microprocessor System Design (3) . . .	1.5 1.5
40340	Engineering Electromagnetics I (3) . . .	0 3.0
40341	Engineering Electromagnetics II (3) . .	0.5 2.5
40408	Senior Design Project I ⁶ (2)	2.0 0
40409	Senior Design Project II ⁶ (4)	4.0 0
404XX	Student Design Folder (S/U) ⁴ (0)	0 0
47309	Technical Communications (2)	0 0
64359	Ordinary Differential Equations (3) . . .	0 0
64381	Probability and Statistics I ⁷ (3)	0 0
64385	Linear Algebra and Systems of ODE (3) .	0 0.5
75393	Modern Physics (3)	0 4.0
XXXXX	Mechanical Engineering ⁸ (3 or 4)	1.0 2.0
		16.0 29.5

Electrical Engineering Technical Electives 20 credits

Twenty credits of technical electives are required which must include at least three engineering and/or computer engineering (40XXX and/or 45XXX) lecture courses (9 credits) and two engineering (40XXX and/or 45XXX) laboratories (2 credits). Students must obtain the advice of their advisor about their choice of electives before registering.

Lecture Group:

	<i>Design Credits</i>	<i>Eng/Sci Credits</i>
40312	Communication Systems (3)	1.0 2.0
40316	Control Systems I (3)	1.0 2.0
40317	Digital Control Systems (3)	1.0 2.0
40332	Discrete Time Systems (3)	1.0 2.0
40342	Microwaves I (3)	1.0 2.0
40416	Modern Control Systems (3)	1.0 2.0
40417	Robotics I (3)	1.0 2.0
40423	Digital Integrated Circuits (3)	1.0 2.0
40425	Advanced Electronics (3)	1.0 2.0
40432	Computer Systems Design I (3)	1.0 2.0
40433	Computer Systems Design II (3)	1.0 2.0
40435	VLSI Design (3)	1.0 2.0
40436	Microelectronic Technology (3)	1.0 2.0
40443	Microwaves II (3)	1.0 2.0
40444	Engineering Optics (3)	1.0 2.0
40445	Antenna Systems (3)	1.0 2.0
40451	Electromechanical Energy Conversion (3)	1.0 2.0
40452	Electric Power Systems (3)	1.0 2.0
404XX	Solid State Devices (3)	1.0 2.0
454XX	Computer Packaging (3)	0.5 2.5
47405	Engineering Accounting (3)	0 1.0
474XX	Statistical Process Control (see ⁷) (3) .	1.0 2.5
474XX	Design of Experiments (3)	1.5 2.5
25310	Data Structures (3)	0.5 2.5
25340	Operating Systems I (3)	1.0 2.0
25341	Operating Systems II (3)	1.0 2.0
25410	Design and Analysis of Algorithms (3) .	0 1.0
25420	Languages and Machines (3)	1.0 1.0
25450	Design of Programming Languages (3) .	0 1.0
64375	Numerical Methods (3)	0 1.0
64382	Probability/Statistics II (3)	0 1.0
64488	Partial Differential Equations (3)	0 1.0

Laboratory Group:

40301	Engineering Optics (1)	0 1.0
40302	Antennas (1)	0 1.0
40303	Microwaves I (1)	0.5 0.5
40304	Control (1)	0 1.0
40305	Communication (1)	0 1.0
40306	Microwaves II (1)	0.5 0.5
40401	VLSI Design (1)	1.0 0
40404	Robotics (1)	0.5 0.5
404XX	Microelectronics Technology (1)	0 1.0
404XX	Computer Systems (1)	0.5 0.5
454XX	Computer Packaging (1)	0.5 0.5
474XX	Simulation & Measurement Laboratory (1)	0.5 0.5

Footnotes:

1. The Foreign Studies Requirement may be met by:

a) Completing a two semester sequence in a foreign language at the elementary level.

OR

b) Completing one course in a foreign language at the intermediate level.

OR

c) Completing one course from the list of acceptable foreign studies courses available in the Office of Engineering Programs.

2. Students who are unable to take the Calculus I, II, and IIIA sequence, and who take the regular calculus sequence or the equivalent, are required to take Calculus IV (64354) in addition to Calculus I, II and III.

3. The pre-engineering requirement and the Humanities and Social Sciences component are identical for both Electrical and Computer Engineering majors. Therefore, a student having successfully completed the pre-engineering requirement may declare either the Electrical Engineering (major code 517) or the Computer Engineering (major code 518) upper-division major.

4. Seniors must register during the last semester prior to their graduation for the 40XXX student design folder course so that the contents of their folders can be verified.

5. Electronics I and II include extensive laboratory work.

6. Senior Design Project (49408, 49409) - 6 cr. Seniors must register during each of the last two semesters preceding their graduation for Senior Design Project. A single project under the direction of a single faculty member will be spread over both semesters. This project should provide a meaningful engineering design experience and should draw on the cumulative technical background of the student.

7. Statistical Process Control (47XXX) may be substituted for Probability and Statistics I (64381) in the engineering core.

8. Choose one of the following two courses:

75315 Engineering Mechanics (4)

75422 Thermodynamics (3)

Liberal Arts Designation

The following courses may be counted toward the liberal arts requirement: 47101, 47309, 47405, 40210, 40230, 40311, 40312, 40316, 40317, 40320, 40321, 40331, 40340, 40341, 40408, 40409, 40435, 40444, 40451.

Undergraduate Courses

General Engineering

47101 Introduction to Engineering Science (2)

Various fields of engineering, activities, career opportunities, and areas of electrical engineering. History of electrical engineering. Present and future trends in various areas of electrical engineering, such as energy conversion, automatic control, electronic communications, and computers. Engineering ethics and professionalism. Visits to representative industries. Prerequisite: HS or college physics and PI.

47201 Engineering Graphics (2)

Orthographic projection, sectional and auxiliary views, shop processes, screw threads and fasteners; reading of assembly drawings. Engineering graphs, specifically for electrical engineering practice. Prerequisite: PI.

47309 Technical Communications (2)

Typical communicative problems of the professional engineer; schedules, job specifications, step-by-step directions, presentation of data, professional articles, abstracts, technical proposals, oral presentations; reports. Prerequisite: Major code 517.

47405 Engineering Accounting (3)

Basic concepts and procedures of financial and managerial accounting with emphasis on aspects affecting decision making and communication with finance and accounting personnel. Accounting cycle; financial statements; cost accumulation and allocation methods; product costing; standard costing and variance analysis; capital budgeting. Prerequisite: Major code 517 and PI.

Electrical Engineering**40208 Digital Logic Laboratory (1)**

Laboratory exercises covering the material of 40230 Digital Logic Design. Corequisite: 40230.

40209 Circuits Laboratory (1)

Laboratory exercises covering the material of 40210 Circuit Analysis I. Corequisite: 40210, 47309.

40210 Circuit Analysis I (3)

Circuit variables and elements, simple resistive circuits, Kirchhoff's laws, node voltage method, mesh current method, source transformations, Thevenin and Norton equivalent circuits, step response of RL, RC, and RLC circuits. Sinusoidal steady state analysis. Series and parallel resonance. Prerequisite: 75202; pre/corequisite: 64359, 40209.

40230 Digital Logic Design (3)

Algebra of logical variables, logical functions. Basic combinational circuits. Flip-flops, registers and counters. Arithmetic. Memory blocks. Sequential circuits. Corequisite: 40208.

40302 Antenna Laboratory (1)

Measurement of the far field pattern and characteristics of wire antennas and arrays for VHF. Measurement of the field pattern and characteristics of reflector type antennas in the X-band, and of aperture type antennas and arrays in the X-band. Pre/corequisite: 40445.

40303 Microwaves I Laboratory (1)

Measurement of VSWR and wavelength in waveguides, stub tuners and matching, calibration of attenuators, time domain reflectometry and frequency domain network analyzer measurement. Pre/corequisite: 40342.

40304 Control Laboratory (1)

Transient response and frequency response measurements to characterize control system devices and components. Laboratory study of open-loop and closed-loop linear systems. Steady-state error analysis; positional speed control systems. Prerequisite: 40316 or 40317.

40305 Communication Laboratory (1)

AM communication circuits. FM communication. SSB communication circuits. RF power transmitting. Phase-locked loop circuits, frequency synthesis, time division multiplexing (sampling, PCM, DM), frequency division multiplexing, amplitude shift keying, phase shift keying, frequency shift keying. Prerequisite: 40312.

40306 Microwaves II Laboratory (1)

Design, build and test planar microwave devices such as power divider, coupler, filter, mixer, amplifier, and oscillator. Corequisite: 40443.

40308 Microprocessor Laboratory (1)

Laboratory exercises covering the material of 40331 Microprocessor System Design. Corequisite: 40331.

40310 Circuit Analysis II (3)

Polyphase circuits. Frequency characteristics of continuous-time systems. Magnetically coupled networks. Mutual inductance. Two-ports. Fourier analysis. Laplace transform. Prerequisite: 40210.

40311 Linear Systems (3)

Time-domain response and convolution; frequency-domain response using Fourier series, Fourier transforms, Laplace transforms; sampling; system or network properties and restrictions in frequency and time domains as derived from Fourier theory; relation between time and frequency descriptions of signals and systems. Prerequisite: 64359 and 40210.

40312 Communication Systems (3)

Signal analysis, signal transmission. Digital communication systems. Amplitude modulation; angle modulation. Prerequisite: 40311 or 40332.

40316 Control Systems I (3)

Mathematical modeling of physical systems, signal flow graph, feedback control systems; stability; time domain analysis, frequency response and analysis of design using root locus, and frequency domain methods, Nyquist criterion and Nichols Chart, design of the PID controllers, time domain design of the phase lead and lag controllers. Prerequisite: 40310 or 40311.

40317 Digital Control (3)

Analysis and design of discrete-time control systems. General formulation of dynamic systems using difference equations. The Z-transform and its applications. Signal conversion and processing. Stability analysis. Design of discrete-time control system via transform methods. Compensator design using classical techniques. Prerequisite: 40311 or 40332.

40320 Electronics I (4)

An introduction to semiconductors: p-n junction diode, bipolar junction transistor. Bias stability factors. H-parameter model. FET, JFET, and MOSFET. Small signal analysis of BJT and FET. Single stage amplifiers. Laboratory exercises. Prerequisite: 40210 and 47309.

40321 Electronics II (4)

Multistage differential and operational amplifiers; Op Amp applications; feedback. Design and analysis of modulators, mixers, oscillators, detectors and limiters. Power amplifiers, and frequency response laboratory exercises. Prerequisite: 40320 and 47309.

40331 Microprocessor System Design (3)

CPU. Memory. Input/Output. Buses. Design applications. Prerequisite: 40230. Corequisite: 40308.

40332 Discrete-Time Systems (3)

Discrete time signals and systems. Z-transform. Flow graphs. Digital filter design. Fast Fourier Transform. Prerequisite: 40310.

40340 Engineering Electromagnetics (3)

Vectors and vector differential calculus. Maxwell's equations. Static and dynamic electric fields. Macroscopic theory of dielectric and magnetic materials. Boundary conditions. Potential theory. Prerequisite: 64383, 75202.

40341 Engineering Electromagnetics II (3)

Static and quasi-static magnetic fields. Magnetic circuits; transformers. Vector magnetic potential. Induction; self and mutual inductance. Wave propagation in perfect and lossy dielectrics. Reflection and transmission at plane boundaries. Poynting's theorem. Two-conductor transmission lines, including transient behavior. Prerequisite: 40340.

40342 Microwaves I (3)

Review of Maxwell's equations, propagation of plane waves, reflection and transmission of plane waves, transmission line analysis, striplines and microstrip lines, waveguide analysis, microwave networks. Prerequisite: 40341.

40401 VLSI Design Laboratory (1)

Software and hardware used in VLSI design. Applications to NMOS and CMOS. Pre/corequisite: 40435.

40404 Robotics Laboratory (1)

Operation of the robot system; teach pendant programming; computer programming of robot arm. Robot arm velocity measurement and control. Material handling applications; assembly applications. Pre/corequisite: 40417.

40408 Senior Design Project I (2)

First part of a two-semester design project. Students choose a project and an advisor and learn about the design process. A written progress report is required at the end of the semester. Prerequisite: Graduating senior, major code 517 and PC.

40409 Senior Design Project II (4)

Second part of a two-semester design project. Written and oral reports are required at the end of the semester. Prerequisite: 40408 and PC.

40416 Modern Control Systems (3)

Analysis and design of linear control systems. State space formulation of dynamic systems, canonical representations, input-output descriptions. Computer aided solutions of control systems. Linear dynamic response. Controllability and observability analysis, pole placement design. Full-order and reduced-order observers design. Prerequisite: 40310 or 40311.

40417 Robotics I (3)

Spatial descriptions and transformations. Kinematics of robotic manipulators. Inverse manipulator kinematics. Jacobian transformation in robotic manipulation. Manipulator dynamics formulations. Trajectory generation. Motion control of robots. Force control of manipulators. Prerequisite: 40310 and Engineering Mechanics (75315) or PI.

40423 Digital Integrated Circuits (3)

MOS transistor, logic gate circuits and electrical characteristics. P-N junction and Schottky diodes. BJT,

inverter and digital gate circuits. Regenerative circuits. Semiconductor memories. Design projects. Course based on charge-control and SPICE2 large signal MOSFET, diode and BJT models, and the related integrated circuit analysis. Prerequisite: 40230, 40321.

40425 Advanced Electronics (3)

(Design of MOS VLSI Circuits for Telecommunications) MOS Fabrication technology and device modeling. Analog and digital circuit building blocks, representative systems. Design projects. Prerequisite: 40230, 404321.

40432 Computer System Design I (3)

Computer system structure and architecture. Implementation and design trade-offs. Prerequisite: 40331.

40433 Computer System Design II (3)

Structure of high-performance pipelined, parallel and vector architectures. System design issues in high-performance computers. Prerequisite: 40432.

40435 VLSI Design (3)

Introduction to MOS devices and circuits (N-MOS, CMOS), MOS transistor theory. Integrated system processing technology and design rules (N-MOS and CMOS), circuit characterization and performance estimation, N-MOS and CMOS circuits and logic design. Interfacing. Introduction to VLSI design tools. Testability analysis. Microarchitecture of VLSI systems. Chip design projects. Prerequisite: 40230, 40321.

40436 Microelectronic Technology (3)

Crystal growth. Epitaxy. Major steps in the fabrication of VLSI circuits. Process stimulation and diagnostic techniques. Yield and reliability. Prerequisite: 40321, Modern Physics, background in semiconductor devices, and PI.

40443 Microwaves II (3)

Microwave resonators, power dividers, directional couplers and hybrids, filters, detectors, mixers, amplifiers and oscillators, introduction to microwave systems. Prerequisite: 40342.

40444 Engineering Optics (3)

Fourier optics. Introduction to optical information processing. Introduction to lasers. Optical fiber communications. Guided wave optics. Prerequisite: 40341.

40445 Antenna Systems (3)

Antenna parameters, wire antennas, arrays of wire antennas, aperture type antennas, reflectors and feeds. Prerequisite: 40341.

40451 Electromechanical Energy Conversion (3)

Fundamentals of electromechanical energy conversion. Transformers. Induction machines, three phase and single phase. Synchronous machines. Prerequisite: 40341.

40452 Electric Power Systems (3)

Energy sources, transmission line parameters, transmission line modeling, power flow analysis, voltage and frequency control. Prerequisite: 40431 or equivalent. Corequisite: 40432 or equivalent.

Graduate Courses

The Engineering Department offers a number of graduate level courses each semester. These courses are listed as "special topic" courses with 40XXX, 45XXX or 47XXX numbers and with department approval may be used to satisfy the technical electives requirement. Information is available from the department office.

Business Administration

Associate Professors:

Donald Bishko, Ph.D., Rensselaer Polytechnic Institute
Karl Heiner, Ed.D., Columbia
Kristofer C. Neslund, D.B.A., Kent State University
Hadi Salavitarbar (Director), Ph.D., SUNY Binghamton
Tulin Sener, Ph.D., Claremont Graduate School
William Whittaker, Ph.D., Rochester

Assistant Professors:

James J. Donegan, Ph.D., University of Arizona
Joel Neuman, Ph.D., SUNY-Albany
Gary Patterson, Ph.D., North Carolina
Sally Schultz, Ph.D., Pennsylvania State, CMA
Surinder Tikoo, Ph.D., University of Connecticut
Chih-Yang Tsai, Ph.D., New York University

Lecturers:

Arilee Bagley, M.S., Rensselaer Polytechnic Institute
Theodore Clark, M.B.A., Long Island University

The Department of Business Administration offers a program leading to a Bachelor of Science in Business Administration, a program leading to a Bachelor of Science in Accounting, and a Certificate in Business Studies. These programs are designed to give students technical knowledge of the field as well as a broad understanding of the economic, social, and political world in which they live.

In Business Administration, students may concentrate in management, marketing, finance, international business, planning and regional affairs, or pre-professional school. Students who intend to begin a professional career upon graduation are advised to concentrate in either management, marketing, finance, international business or planning and regional affairs since these programs are designed to prepare students for entry level positions in business and government. The pre-professional school major is offered for students who may pursue graduate studies.

The accounting program is designed to prepare students to enter the field of public accounting or to assume accounting positions in government and industry. Completion of this degree guarantees students' eligibility to sit for the CPA examination.

The Certificate in Business Studies is a pre-professional plan of study for individuals with baccalaureate degrees or higher, who majored in non-business areas to prepare them for graduate studies in business. This program has been registered jointly with Dutchess Community College, Orange County Community College, Rockland Community College, Sullivan County Community College, and Ulster County Community College. Students may begin or complete their Certificate studies at SUNY New Paltz or any of the aforementioned community colleges, but must complete at least half of their credits at the Consortium of SUNY New Paltz and these community colleges if they wish SUNY New Paltz to award the Certificate.

Students should be cognizant of prerequisite requirements for all courses and may not register for courses when the prerequisite requirements have not been met. In general, the core courses should be completed before the concentration courses. Business Policy, the senior capstone course in Business Administration, may be taken only after all other core courses are completed. Students should see their advisors regularly throughout their academic program. Transfer students should be aware that: 1) the College requires that at least one-half of the courses in the major be completed at New Paltz, and 2) transfer business courses which are given graduation credit by the College may not necessarily satisfy the business requirement. Students should meet with their business advisors early in their program.

Admission to Major

Acceptance as a major in business administration or accounting is not automatic; rather, it is based on overall academic performance and on performance in selected courses. Details of admissions criteria may be obtained from the Office of Admissions or the Department of Business Administration. All business administration and accounting students must complete college algebra before they can achieve major status.

Business Administration Majors

Finance Concentration	.....61 credits
International Business Concentration	.....66 credits
Management Concentration	.....54 credits
Marketing Concentration	.....54 credits
Planning and Regional Affairs Concentration	....63 credits
Pre-Professional School Concentration	.....62 credits

Business Administration Core Curriculum30 credits

(Required for all concentrations)

33206	Introduction to Microeconomics (3)
33207	Introduction to Macroeconomics (3)
20201	Financial Accounting (4)
20202	Managerial Accounting (4)
20309	Statistics for Business and Economics I (3)
20311	Statistics for Business and Economics II (4)
20325	Marketing (3)
20341	Fundamentals of Corporate Finance (3)
20450	Business Policy (3)

All Business Administration students must select one of the following concentrations:

Finance Concentration

Required Courses31 credits

Five of the following:

64245	Basic Calculus (4)
20250	Principles of Management (3)
20441	Financial Management and Policy (3)
20443	Investment Analysis and Portfolio Management (3)
33303	Money and Banking (3)
<i>Two of (Upper-Division Accounting Elective):</i>	
20368	Intermediate Accounting I (3)
20369	Intermediate Accounting II (3)
20371	Tax Accounting I (3)
20372	Tax Accounting II (3)
20373	Cost Accounting (3)

One of the following:

20310	Introduction to Management Science (3)
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- 20312 Operations Management (3)
One of (Upper-Division Finance/Economics Elective):
 20346 International Business (3)
 20445 International Financial Management (3)
 33304 Public Finance (3)
One of the following:
 Computer Programming Elective (3)

International Business Concentration

Required Courses36 credits

- 20346 International Business (3)
Three of: (International Relations Elective - Must take 77227 and two of others)
 58469 U.S. Foreign Policy Since 1900 (3)
 77227 International Politics (3)
 77342 Politics of Developing Areas (3)
 77343 Political Economy of Multinational Corporations (3)
 77344 Politics of International Economic Organizations (3)
 77366 Contemporary American Foreign Policy (3)
 773XX International Organizations (3)
 77453 International Law (3)
Two of the following:
 07214 Cultural Anthropology (3)
 07405 Theories of Cultural Change (3)
 20445 International Financial Management (3)
 20493 International Accounting (3)
 33202 Evolution of Capitalism (3)
 33302 Comparative Economic Systems (3)
 33401 International Trade and Finance (3)
 33418 Economics of Development (3)
 87310 Comparative Social Structures (3)
 87380 Social and Economic Development (3)
Three of: (Area Study Elective -- Students should consult their advisors on selections in this area. Students should concentrate in a given region of the world. As much as possible, the selected courses in this category should be consistent with the foreign language chosen in the next category.)
 07378 Cultures of India (3)
 07379 Cultures of the Middle East (3)
 07380 Cultures of Africa (3)
 07383 Cultures of China (3)
 07412 Problems of the Third World (3)
 17193 Introduction to Latin American Studies (3)
 17200 Introduction to Africa (3)
 17309 Introduction to Afro-Brazilian History (3)
 17311 Blacks in the Caribbean (3)
 17347 History of South Africa (3)
 33493 Economic Development of Pacific Rim (3)
 33XXX Economic Change in Eastern Europe (3)
 48260 Understanding China (3)
 48307 Understanding Latin America (3)
 48506 Contemporary China (3)
 48510 Land and People of Latin America (3)
 52393 Germany Today (3)
 57393 Japan Today (3)
 58311 Modern Germany (3)
 58316 Modern China (3)
 58335 Modern Japan (3)
 58353 Twentieth-Century Europe (3)
 77354 European Politics and Government (3)
 77365 International Politics of East Asia (3)
 77372 International Relations of the Middle East (3)
 84373 Russian Culture (3)
(Foreign Language Elective):
 The elementary and intermediate courses in one language must be completed. This requirement is the equivalent of two years (four semesters) of language courses. In other words, it is one year of

language in addition to the language requirement of the General Education program.

- One of the following:*
 Computer Programming Elective (3)

Management Concentration

Required Courses24 credits

- One of the following:*
 80272 General Psychology (3)
 87100 Introduction to Sociology (3)
One of the following:
 20346 International Business (3)
 20367 Business and Society (3)
 71305 Business Ethics (3)
Three of the following:
 20312 Operations Management (3)
 20321 Organizational Behavior (3)
 20322 Organization Theory (3)
One of (Upper-Division Management Elective):
 20310 Introduction to Management Science (3)
 20345 Human Resource Management (3)
 20350 Collective Bargaining (3)
One of (Upper-Division Economics):
 33303 Money and Banking (3)
 33304 Public Finance (3)
 33306 Theory of Price (3)
 33307 National Income Analysis (3)
 33312 Labor Economics (3)
 33404 Industrial Organization (3)
 33425 Managerial Economics (3)
One of the following:
 Computer Programming Elective (3)

Marketing Concentration

Required Courses24 credits

- Four of the following:*
 20250 Principles of Management (3)
 20312 Operations Management (3)
 20425 Marketing Research (3)
 20429 Marketing Management (3)
Two of (Upper-Division Marketing Elective):
 20310 Introduction to Management Science (3)
 20326 Consumer Behavior (3)
 20327 Sales Management (3)
 20346 International Business (3)
 20427 Advertising Strategy (3)
One of (Upper-Division Economics):
 33303 Money and Banking (3)
 33304 Public Finance (3)
 33306 Theory of Price (3)
 33307 National Income Analysis (3)
 33404 Industrial Organization (3)
 33425 Managerial Economics (3)
One of the following:
 Computer Programming Elective (3)

Planning and Regional Affairs Concentration

Required Courses33 credits

- One of the following:*
 20250 Principles of Management (3)
One of the following:
 20346 International Business (3)
 20367 Business and Society (3)
 71305 Business Ethics (3)
Seven of the following:
 48252 Economic Geography (3)
 48273 Basic Physical Geography (3)
 48410 Regional Planning and Development (3)

- 48412 Location Analysis in Business and Industry (3)
 48526 Urban Planning (3)
 50220 Geological Processes (3)
 77318 Local Politics (3)
One of the following:
 50346 Conservation and Environmental Impact (3)
 48406 Natural Resources: Utilization and Management (3)
One of the following:
 Computer Programming Elective (3)

Pre-Professional School Concentration

Required Courses32 credits

- Four of the following:*
 20250 Principles of Management (3)
 20373 Cost Accounting (3)
 64251 Calculus I (Pre-Calculus is prerequisite) (4)
 64252 Calculus II (4)

Track One

- Three of the following:*
 20310 Introduction to Management Science (3)
 20312 Operations Management (3)
 64381 Probability and Statistics I (3)
 64362 Linear Algebra (3)
 64359 Ordinary Differential Equations (3)
 64499 Discrete Mathematical Models (3)
One of the following:
 20345 Human Resource Management (3)
 20346 International Business (3)
 20427 Advertising Strategy (3)
 20429 Marketing Management (3)
 20441 Financial Management and Policy (3)
 20443 Investment Analysis/Portfolio Management (3)

One of (Economics Elective):

- 33302 Comparative Economic Systems (3)
 33303 Money and Banking (3)
 33304 Public Finance (3)
 33306 Theory of Price (3)
 33307 National Income Analysis (3)
 33401 International Trade and Finance (3)
 33404 Industrial Organization (3)
 33425 Managerial Economics (3)

One of the following:

- Computer Programming Elective (3)

Track Two

- Two of the following:*
 20310 Introduction to Management Science (3)
 20312 Operations Management (3)
 64381 Probability and Statistics I (3)
 64362 Linear Algebra (3)
 64359 Ordinary Differential Equations (3)
 64499 Discrete Mathematical Models (3)
Two of the following:
 20345 Human Resource Management (3)
 20346 International Business (3)
 20427 Advertising Strategy (3)
 20429 Marketing Management (3)
 20441 Financial Management and Policy (3)
 20443 Investment Analysis/Portfolio Management (3)

One of (Economics Elective):

- 33302 Comparative Economic Systems (3)
 33303 Money and Banking (3)
 33304 Public Finance (3)
 33306 Theory of Price (3)
 33307 National Income Analysis (3)
 33401 International Trade and Finance (3)
 33404 Industrial Organization (3)
 33425 Managerial Economics (3)

- One of the following:*
 Computer Programming Elective (3)

Accounting Major

Accounting 62 credits

- 33206 Introduction to Microeconomics (3)
 33207 Introduction to Macroeconomics (3)
 20201 Financial Accounting (4)
 20202 Managerial Accounting (4)
 20250 Principles of Management (3)
 20271 Business Law I (3)
 20272 Business Law II (3)
 20309 Statistics for Business and Economics I (3)
 20341 Fundamentals of Corporate Finance (3)
 20368 Intermediate Accounting I (3)
 20369 Intermediate Accounting II (3)
 20371 Tax Accounting I (3)
 20372 Tax Accounting II (3)
 20373 Cost Accounting (3)
 20375 Auditing (3)
 20441 Financial Management and Policy (3)
 20442 Advanced Accounting (3)
 20451 Accounting Theory (3)
 Upper-Division Business Elective (3)

One of the following:

- Computer Programming Elective (3)

Certificate in Business Studies

33 credits

- 33206 Introduction to Microeconomics (3)
OR
 33207 Introduction to Macroeconomics (3)
 20201 Financial Accounting (4)
 20202 Managerial Accounting (4)
 20250 Principles of Management (3)
 20309 Statistics for Business and Economics I (3)
 20311 Statistics for Business and Economics II (4)
 20325 Marketing (3)
 20341 Fundamentals of Corporate Finance (3)
 64245 Basic Calculus (3)
 Computer Programming Elective (3)

Minor

Business Administration

23 credits

Required courses:

- 33206 Introduction to Microeconomics (3)
 33207 Introduction to Macroeconomics (3)
 20201 Financial Accounting (4)
 20202 Managerial Accounting (4)
 20250 Principles of Management (3)
 20309 Statistics for Business and Economics I (3)*
One of the following:
 20325 Marketing (3)
 20341 Fundamentals of Corporate Finance (3)

* Any college-level statistics course may be substituted for 20309.

Liberal Arts Designation

The following business courses carry a liberal arts (LA) designation: 20250, 20271, 20272, 20309, 20310, 20311, 20321, 20322, 20326, 20441, and 20544. Accounting and Business Administration majors may not use any business course (20XXX) toward their liberal arts requirement. Accounting and Business Administration students should see their advisor for an analysis of their LA courses.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

20201 Financial Accounting (4)

An introduction to basic accounting principles for measuring and communicating financial data about a business enterprise to external parties. Prerequisite: "C-" in 64050 or Math Proficiency Level 3.

20202 Managerial Accounting (4)

Introduction to measuring and communicating the financial information needed to manage an organization. Introduction to spreadsheet programming, using basic managerial accounting concepts. Topics include job order and standard costing systems, cost behavior and estimation, cost-volume-profit analysis, budgeting and short-term decision making. Prerequisite: 20201 with a grade of "C-" or better.

20250 Principles of Management (3)

The formation, direction, and operation of business enterprise in a competitive economy; entrepreneurial choices of legal form, function structure, and managerial method.

20271 Business Law I (3)

Survey of legal principles underlying relations of a commercial nature; development of the common law, contracts, agency, negotiable instruments, mortgages, sales, insurance, bankruptcy, common carriers, partnerships, and corporations.

20272 Business Law II (3)

Continuation of 20271, including illustrative case studies. Prerequisite: 20271 with a grade of "C-" or better.

20309 Statistics for Business and Economics I (3)

Statistical analysis of economic and business problems with emphasis on statistical inference. Rigorous treatment of probability theory and probability and sampling distributions. Estimation and hypothesis testing of (population) parameters are emphasized. Prerequisite: "C-" in 64152 or Math Proficiency Level 4.

20310 Introduction to Management Science (3)

Introduction to quantitative methods used in business decision making. Both deterministic and probabilistic models are introduced. Topics include linear programming, sensitivity analysis, inventory and queuing theory, and Markov analysis. Prerequisite: 20309 with a grade of "C-" or better.

20311 Statistics for Business and Economics II (4)

Statistical methods applied to economic and business decisions. Topics include hypothesis testing, analysis of variance, matrix algebra application in regression, regression and correlation analysis, time-series analysis and forecasting, and non-parametric statistics and computer application in statistics. Prerequisite: 20309 with a grade of "C-" or better.

20312 Operations Management (3)

This course takes a systems approach to the management of the operations with an emphasis on the role of operations in determining the global competitiveness of organizations. Analytical tools and strategic issues of operations management are presented. Topics include: forecasting, operations aspects of product/process design, location analysis, capacity planning, layout strategies, assembly-line balancing, JIT, inventory modeling, MRP, and quality management. Prerequisite: 20309 with a grade of "C-" or better.

20321 Organizational Behavior (3)

Introductory analysis of human behavior in large and complex organizations and the impact of organizations on human interrelationships. Skills and strategies in organizational development and change, such as: leadership, influence and control systems, group dynamics, and personal/organizational goals. Students may not take both this course and 80315 for credit.

20322 Organization Theory (3)

Introductory survey and analysis of major theories dealing with organizational characteristics and processes. The relationship between theories and supporting empirical evidence. Current issues in organization theory; decision-making; the organizational environment; and the changing nature of organization in contemporary society.

20325 Marketing (3)

The operation of the distribution system for goods and services. Techniques of market analysis. Prerequisite: "C-" in 33206; pre/corequisite: 33207.

20326 Consumer Behavior (3)

Various aspects of consumer behavior. Topics include motivation, attitudes, shopping behavior, influences on normal behavior. Models of consumer behavior and their relationship to marketing management. Prerequisite: 20325 with a grade of "C-" or better.

20327 Sales Management (3)

Elements of the sales function. Concentration on selling activities which include sales demonstrations and special selling presentations. Introduction to sales management functions, including organizing, recruiting, training, supervising, compensating and motivating of the sales force. Prerequisite: 20325 with a grade of "C-" or better.

20341 Fundamentals of Corporate Finance (3)

Fundamentals of finance and their application to typical financial problems of business enterprises. Emphasis on financial analysis and forecasting, time-value of money, risk and return, security valuation, and working capital management. Prerequisite: 33207 and 20201 with a grade of "C-" or better, and [20309 pre/corequisite].

20345 Human Resource Management (3)

Terminology, principles, and concepts used by the personnel function in medium and large business and non-business organizations to select, train, motivate, compensate, and appraise both managers and non-managers from the perspective of human behavior in a work environment.

20346 International Business (3)

This is a course designed to introduce students to international business and the role of multinational corporations in today's global economy. We shall seek to understand international business issues which have to be

addressed by business corporations when they operate across countries. The course focuses on international business theory, environment, institutions, role of the nation state, culture, strategy, and operations. Prerequisite: 20250, 33307, and 33307.

20350 Collective Bargaining (3)

An examination of the contractual relationship between labor and management and how the contracts are arrived at. The forces affecting the outcome of negotiations and the factors affecting the parties are examined. Attention to both the private and public sectors. An evolution of the overall impact of collective bargaining and the legal environment.

20367 Business and Society (3)

History of American economic institutions and their impact on and relationship with American social and cultural values.

20368 Intermediate Accounting I (3)

Theory, concepts and procedures for the measurement of cash, investments, receivables, inventories, plant assets, and intangibles. Prerequisite: 20201 with a grade of "C-" or better, and [20202 pre/corequisite].

20369 Intermediate Accounting II (3)

Practical and theoretical issues involved in accounting for investments, current liabilities, non-current liabilities, shareholders' equity and instruments with both debt and equity characteristics. Prerequisite: 20368 with a grade of "C-" or better and [20341 pre/corequisite]. Math Level 4.

20371 Tax Accounting I (3)

A study of the federal income tax laws with an emphasis on the measurement of the income tax of individuals. Includes the components of gross income, business and personal deductions, and gains and losses on the disposition of property. Prerequisite: 20202 with a grade of "C-" or better.

20372 Tax Accounting II (3)

Continues the study of the federal income tax laws with an emphasis on the special problems of corporations and partnerships. Prerequisite: 20371 with a grade of "C-" or better, and Math Level 4.

20373 Cost Accounting (3)

Cost accumulation and control, job order and process cost systems, standard costs and variance analysis, techniques for management decision making. Prerequisite: 20202 with a grade of "C-" or better.

20375 Auditing (3)

Professional ethics, legal liability, internal control, auditing standards and procedures, audit reports, and special reporting problems. Prerequisite: 20202 and 20368 with a grade of "C-" or better, and [20309 pre/corequisite].

20425 Marketing Research (3)

A statistically oriented course in the process and problems of research in marketing decision-making. Emphasis on survey methodology, questionnaire design, sample selection, field work, tabulation, statistical analysis of data and report writing. All phases, from problem definition to presentation, are examined. Prerequisite: 20325 with a grade of "C-" or better, and [20311 pre/corequisite].

20427 Advertising Strategy (3)

This course will design and evaluate advertising strategies based upon knowledge of consumer demand, advertising methods, mechanics, and institutions. Specific course

objectives include: place of advertising promotion in marketing mix, process of bring advertising strategies to completion, examining creative strategy, media strategy, and consumer research in campaign development, analyzing advertising strategies and evaluating alternatives, and organization and management of the advertising function. Prerequisite: 20325.

20429 Marketing Management (3)

Comprehensive problem solving in marketing with an emphasis on managing marketing functions and strategic marketing. Complex marketing situations are analyzed through extensive use of case analysis, synthesizing all previous marketing courses. Prerequisite: 20325 with a grade of "C-" or better. Math Level 4.

20441 Financial Management and Policy (3)

Capital budgeting, cost of capital, break even/leverage analysis, long-term financing, preferred stock, common stock and dividend policy, leasing evaluations, expansion, and failure. Prerequisite: 20202 and 20341 with a grade of "C-" or better.

20442 Advanced Accounting (3)

Accounting for business combinations, consolidated entities, partnerships, governmental and not-for-profit organizations. Prerequisite: 20369 with a grade of "C-" or better.

20443 Investment Analysis and Portfolio Management (3)

Principles of securities market investment, the formulation of investment policies for individuals and institutions, modern theories of portfolio selection and capital markets, integrated with traditional valuation theory and analysis. Prerequisite: 20202 and 20341 with a grade of "C-" or better.

20445 International Financial Management (3)

International financial markets, exchange rate behavior and risk management, international banking, multinational financial management, comparing short-term and long-term asset and liability management, and multinational strategic planning. Prerequisite: 20341 with a grade of "C-" or better.

20450 Business Policy (3)

The senior seminar course which integrates the functional areas of finance, management, and marketing by pursuing extensive case and problem analysis dealing with models of strategic management. Prerequisite: PC, Senior Status, 20341 with a grade of "C-" or better.

20451 Accounting Theory (3)

Advanced topics in financial reporting, including accounting for leases, pensions, deferred taxes, pensions and other post-retirement benefits, and multinational operations. Other topics include cash flow statements and accounting changes and error corrections. Prerequisite: 20369 with a grade of "C-" or better and senior accounting major.

20485 Legislative Gazette Business Internship (9)

A real world case practice in the management of all aspects of a small business -- a weekly newspaper. Students will be called upon not only to perform management functions, such as sales, systems development, and accounting, but will see how their previous academic experience is applicable to running a business. Major concentrations of effort will be in marketing, accounting, physical delivery systems and newspaper production. Prerequisite: PC.

Graduate Courses

20525 Quantitative Methods for Business Research (3)

Introduces quantitative models that are frequently used to solve business problems. Major topics include matrix algebra, linear and non-linear optimization. Applications arise from various functional areas, such as finance, marketing and operations, will be discussed. Prerequisite: PC and MS Business candidate.

20526 International Business (3)

A comprehensive overview of the environment, operation and management of global business activities. Environmental factors encountered in the movement of capital, foods, services and personnel, and the transfer of information, technology and managerial skills across national boundaries. Prerequisite: PC and MS Business candidate.

20535 Financial Markets and Institutions (3)

This course provides an overview of U.S. financial system, markets and institutions and the impact of Federal Reserve monetary policy on financial system. The course focuses on financial markets, new instruments and techniques for financing and managing the risk of financial institutions. Emphasis on impact of innovation and technology on securities markets and management of financial institutions, especially banks. Discussion of current issues in securities markets and banking, such as banking regulations, financial derivatives, bank failures, mergers and acquisitions, securitization and international banking. Prerequisite: PC and 20341.

20536 Corporate Financial Management (3)

A study of the scope and environment of financial management; financial analysis, planning and control; valuation and the long-term financing and investment decisions; working capital management; and special topics. Prerequisite: PC and 20341.

20538 Investment Analysis (3)

An applied review of the investment fundamentals and markets; valuation, portfolio construction and risk management; institutional details of all alternative investment instruments and some advanced topics - globalization, new technology and recent developments in theory are emphasized. Prerequisite: PC and 20341.

20544 Health Care Financing (3)

Financial management concepts and techniques for the health care industry. Concepts of basic financial statement analysis and planning, management of working capital, capital investment decision, cost and variance analysis, and pricing.

20546 International Financial Management (3)

Analytical study of the global framework within which the key financial decisions of the multinational firm are made. Topics include fundamentals of international financial management, multinational short- and long-term financing and investment decisions, foreign exchange risk management and international banking. Prerequisite: PC and 20341.

20547 International Marketing (3)

Develop student understanding of intermarket opportunities in a globally competitive environment, providing marketing students with the framework and tools necessary to profile international segments. An emphasis will be placed in international consumer behavior and the important role of cross-culturalism in the development of marketing strategies. Prerequisite: PC and 20325 and 20526.

20548 International Accounting (3)

Review of comparative accounting practices and of efforts to harmonize financial reporting worldwide. Discussion of foreign currency translation, inflation accounting, transfer pricing, taxation, and other accounting issues for multinational enterprises. Prerequisite: PC and 20201 and 20202.

20567 Human Resource Management (3)

Advanced survey of theory, research, and applications in major areas of human resource management. Topics covered include organizational staffing, the social and legal environment, performance appraisal, use and development of assessment measures, and training and development. Prerequisite: PC and 20250 and 20309.

20568 Organizational Behavior (3)

Advanced survey of theory, research and applications in major topical areas of organizational behavior. Topics covered include employee motivation, job related attitudes, leadership, team building, group dynamics, managing conflict, process consultation, and decision making. Prerequisite: PC and 20250 and 20309.

20573 Management Science (3)

Covers mathematical programming, graphs and networks, stochastic processes, queuing theory and simulations. In addition to introducing basic theories, emphases will be put on formulations of business problems and interpretations of the output generated by computer software. Prerequisite: PC and (20525 or PI).

20575 Linear Models (3)

Linear models are used extensively to identify crucial variables and measure their impact on outcome in all areas of business, as well as the sciences and engineering. They are used in both designed and observational studies and have become extremely powerful in recent years as computing has caught up with theory and is now motivating methodological advances. Graphical methods have been developed rapidly. Topics include simple linear regression. Prerequisite: PC and (20525 or PI).

20576 Design of Experiments and Quality Control (3)

Experiments are designed to identify key sources of variability in manufacturing. Consumer behavior, organizational behavior, and other variables of interest to managers. Once identified, this variability can be monitored and controlled thereby improving output and reducing risk. Topics include hypothesis testing, Shewhart Charts, Cumsum Charts, randomized block designs, factorial experiments, and fractional designs. Prerequisite: PC and (20525 or PI).

20583 Auditing (3)

This course builds on the foundation which is created in an introductory auditing course, to enhance the students' understanding of the environment in which they will be working as auditors, and to improve their proficiency with the analytical tools which are necessary for performance of the audit function. Prerequisite: PC and (Undergraduate Auditing, 20375).

20585 Accounting Theory (3)

History of accounting and the standards setting process; nature of income, assets and liabilities; different valuation methods; and topics of current interest. Prerequisite: PC and 20369.

20586 Corporate and Partnership Taxation (3)

This course focuses on federal taxation of corporations and partnerships. Also considered are taxation of estates, trusts, and international entities. Research of tax problems is emphasized. Prerequisite: PC and (One Undergraduate Tax Course or PI).

20588 Applied Research Project in Business (3)

Preparation and writing of an applied research project in the concentration area under the guidance of the major professor. Required form available in the Records and Registration Office and the Office of the Department of Business Administration. Contact faculty advisor for further details. Prerequisite: PC and MS Business candidate.

20589 Cases in Strategic Management (3)

This course is a capstone course in strategic management that uses exclusive case study to develop insight and experience with broad and general management strategy formation. Prerequisite: PC and MS Business candidate.

20590 Thesis in Business (6)

Preparation and writing of a thesis in the concentration area under the guidance of the major professor. Two additional readers are required to approve the final thesis. Required form available in the Records and Registration Office and the Office of the Department of Business Administration. Contact faculty advisor for further details. Prerequisite: PC and MS Business candidate.

Fine & Performing Arts

Patricia Phillips, Dean

Art Department

Art Studio and Art Education

Professors:

James Bennett, M.F.A., SUNY-New Paltz
 Maurice Brown, Ph.D., Ohio State
 Francois Deschamps (Chair), M.S., Illinois
 Sarah Ann Lovett, M.F.A., Temple
 Mary Roehm, M.F.A., Rochester Institute of Technology

Associate Professors:

Terry Adkins, M.F.A., University of Kentucky
 Robin Arnold, M.F.A., Michigan State
 Kenneth Burge, M.F.A., Illinois
 Rimer Cardillo, M.F.A., National School of Fine Arts in Uruguay
 Kathy Goodell, M.F.A., San Francisco Art Institute
 Myra Mimlitsch-Gray, M.F.A., Cranbrook Academy of Art
 Patricia C. Phillips, B.A., Muhlenberg
 Joseph Ramos, M.F.A., Yale
 Michael S. Zadro, B.I.D., Pratt

Assistant Professors:

Dipti Desai, Ed.D., University of Wisconsin
 John Ferro, M.F.A., Yale
 Arthur Hoener, M.F.A., Rhode Island School of Design
 Clifton Meador, M.F.A., SUNY-Purchase
 Kristin Rauch, (Program Director, Art Education), Ed.D.,
 University of North Carolina-Greensboro

Art Studio

The Art Studio Department offers undergraduate and graduate degree programs that encourage students to explore the conceptual, aesthetic, historical and technical dimensions of art production. A generous range of art studio course offerings are designed to serve students accepted into the B.A./B.S., B.F.A., M.F.A., and M.A. programs as well as the B.S. and M.S. programs in Art Education. A strong emphasis on professional study is supported by faculty members who are also active artists. The department offers the Bachelor of Fine Arts, Master of Fine Arts, and the Master of Arts in Art Studio degrees with major study areas in ceramics, metal, painting, photography, printmaking, and sculpture. The Bachelor of Fine Arts degree is offered in graphic design. There are also Bachelor of Arts and Bachelor of Science in the Visual Arts degrees with course work in any or all of the studio options.

All applicants to the New Paltz art program are required to submit a portfolio of work directly to the Art Department prior to, concurrently with or after application to the college itself. Early submission of portfolios is strongly encouraged. Students who submit portfolios prior to application to the college are reminded that an accepted portfolio DOES NOT comprise application or admission to the college, which is an entirely separate procedure. Students entering the art program are placed according to the strengths of their artistic capabilities, as demonstrated by the proficiency and promise of work included in portfolios. Each portfolio must include a completed Portfolio Submission Form, which is attached to the descriptive document "PLACEMENT IN THE NEW

PALTZ UNDERGRADUATE ART PROGRAM," and is available from the Admissions Office.

FRESHMAN APPLICANTS may include recommendations by teachers. TRANSFER APPLICANTS to the art program receive, in addition to non-major credit, major credit for course work whose content is commensurate with New Paltz art studio courses, and for which a grade of "B" or higher is recorded. Transcripts of previous college work should be submitted directly to the Admissions Office. Additionally, a separate set of transcripts MUST BE ENCLOSED IN ALL PORTFOLIOS submitted by transfer students. Failure to include the transcript(s) will delay consideration of transfer credit until the transcript is received by the Art Studio Department. Unofficial photocopies of transcripts are acceptable to the Art Studio Department.

Art major credit for required freshman foundation year courses is regularly allowed on the basis of a transcript alone, up to a maximum of 12 credits. Art major credits above that number are determined by the faculty of the appropriate studio discipline, for which pre-registration consultation is strongly recommended. At such consultations, applicants are expected to show at the very least five examples of work produced in each course for which transfer credit is being sought. Some areas, such as photography, strongly recommend more examples, up to 15.

Additional information is contained in the document "PLACEMENT IN THE NEW PALTZ UNDERGRADUATE ART PROGRAM," described above.

Majors

Fine Arts

Bachelor of Fine Arts
 81-82 credits

NOTE: Students who are interested in pursuing a Bachelor of Fine Arts degree in a studio option, must present their work to the option faculty. This internal review process is in addition to the portfolio review required for admission to the Art Department. The BFA reviews are held in each studio option near the conclusion of each semester.

Required foundation courses12 credits

09100 Drawing: Visual Thinking 1 (3)
 09101 Drawing: Visual Thinking 2 (3)
 09102 Integrated Design 1: Space and Form (3)
 09103 Integrated Design 2: Forces (3)

Liberal arts requirement45-55 credits

Each major candidate must complete 45-55 liberal arts credits which include 12 credits of art history and 3 credits of senior seminar.

Art history courses.12 credits

11201 Art of the Western World I (3)
 11202 Art of the Western World II (3)

- 11358 Early Twentieth-Century Art (3)
 OR
 11359 Art of the Later Twentieth Century (3)
 113XX Art History or Theory Elective (6)

Senior Art Seminar3 credits

- 09490 Senior Art Seminar (3)

One of the options below54-55 credits

■ **Ceramics**

Required option courses27 credits

- 09210 Basic Ceramics (3)
 09314 Ceramics Materials (3)
 09315 Ceramics (total) (9)
 09318 Ceramic Sculpture (3)
 09416 Design and Production (3)
 09411 Senior Studio in Ceramics I (3)
 09412 Senior Studio in Ceramics II (3)

Required cognate courses12 credits

- 09220 Basic Metal (3)
 09240 Basic Painting (3)
 09270 Basic Sculpture (3)
 09300 Advanced Drawing (3)
 OR
 09343 Intermediate Painting (3)

Studio electives15 credits

■ **Metal**

Required option courses28 credits

- 09220 Basic Metal (3)
 09321 Construction and Fabrication (3)
 09322 Processes and Experimental Techniques I (3)
 09323 Processes and Experimental Techniques II (3)
 09324 Enameling (3)
 09326 Metal Forming (3)
 09420 Contemporary Ideas in Metal (4)
 09421 Senior Studio in Metal I (3)
 09422 Senior Studio in Metal II (3)

Required cognate courses6 credits

- Any 200- or 300-level Studio Course
 (Two-Dimensional) (3)
 Any 200- or 300-level Studio Course
 (Three-Dimensional) (3)

Studio electives21 credits

■ **Graphic Design**

Required option courses33 credits

- 09205 Computer-Aided Graphic Design (3)
 09306 The Visible Word (3)
 09307 Typography (3)
 09308 Digital Photographic Imaging (3)
 09309 Printed Books (3)
 09310 Visible Language I (3)
 09311 Graphic Design Applications (3)
 09405 Graphic Design Ideas (3)
 09406 Visible Language II (3)
 09407 Graphic Design Thesis I (3)
 09408 Graphic Design Thesis II (3)

Required cognate courses6 credits

- 09250 Basic Photography (3)
 09266 Basic Printmaking (3)

Studio electives15 credits

■ **Painting**

Required option courses30 credits

- 09240 Basic Painting (3)
 09343 Intermediate Painting (3)
 09345 Painting (total) (18)
 (May include 3 credits of 09344, Water
 Media/Collage)
 09441 Senior Studio in Painting I (3)
 09442 Senior Studio in Painting II (3)

Required cognate courses6 credits

- 09270 Basic Sculpture (3)
 09266 Basic Printmaking (3)

Studio electives18 credits

■ **Photography**

Required option courses27 credits

- 09250 Basic Photography (3)
 09308 Digital Photographic Imaging (3)
 09331 Experimental Photographic Techniques (3)
 09332 View Camera (3)
 May be repeated for credit.
 09333 Color Photography (3)
 09350 Advanced Techniques in B & W Photography (3)
 09450 Documentary/Realism (3)
 May be repeated for credit.
 09451 Contemporary Ideas in Photography (3)
 May be repeated for credit.
 09452 Senior Studio in Photography I (3)
 09453 Senior Studio in Photography II (3)

Required cognate courses6 credits

- 09205 Computer-Aided Graphic Design (3)
 09266 Basic Printmaking (3)

Studio electives21 credits

■ **Printmaking**

Required option courses33 credits

- 09280 Basic Printing (total) (6)
 09385 Printmaking (total) (21)
 09480 Senior Studio in Printmaking I (3)
 09481 Senior Studio in Printmaking II (3)

Studio electives21 credits

■ **Sculpture**

Required option courses27 credits

- 09270 Basic Sculpture
 09375 Sculpture (total) (18)
 09471 Senior Studio in Sculpture I (3)
 09472 Senior Studio in Sculpture II (3)

Required cognate courses9 credits

- 09220 Basic Metal (3)
 09240 Basic Painting (3)
 09210 Basic Ceramics (3)

Studio electives18 credits

Visual Arts

Bachelor of Arts and Bachelor of Science
48 credits

Required foundation courses12 credits

09100	Drawing: Visual Thinking 1 (3)
09101	Drawing: Visual Thinking 2 (3)
09102	Integrated Design 1: Space and Form (3)
09103	Integrated Design 2: Forces (3)

Liberal arts requirement60-90 credits

Bachelor of Arts	.....90 credits
Bachelor of Science	.....60 credits

Each major candidate must complete 60-90 liberal arts credits which include 18 credits of art history or art theory.

200-300 level studio courses18 credits

Any combination of basic 200-level studio courses (maximum of 5 courses) plus 300-level studio courses for a total of 18 credits. The 200-level course prerequisite must be met before any 300-level course may be taken.

Required liberal arts cognate courses18 credits

11201	Art of the Western World I (3)
11202	Art of the Western World II (3)
	Any 4 300-500-level art history or art theory courses for a total of 12 credits.

Additional requirements for Bachelor of Science in Visual Arts. In addition to the above 48 credits required, students entering the B.S. in Visual Arts program are urged to obtain early advice on selecting 15 additional non-liberal arts credits (which may include courses in art studio, music, theatre arts, education, business and computer sciences) in order to organize an individual program in the best possible way.

Minor

Art Studio

18 credits

Acceptance Requirements:

Completion of 30 college credits with proof of minimum grade point average of 2.50 and approval of the Art Studio Department Chair.

The Art Studio Minor is available only to non-Art Studio Majors.

Course Sequence:

09105 Introduction to Drawing and Design is required of all minors and is prerequisite to courses in categories B and C. A course from category B must be taken in advance of or concurrently with category C courses.

Program Requirements:

Successful completion of 18 credits from the following categories:

A. 3-6 Credits from the following courses:

09105	Introduction to Drawing & Design I (3)
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09110	Introduction to Ceramics (3)
09120	Introduction to Metal (3)
09150	Introduction to Photography (3)
09160	Introduction to Printmaking (3)
09170	Introduction to Sculpture (3)

B. 3-6 Credits from the following courses:

09102	Integrated Design 1: Space and Form (3)
09103	Integrated Design 2: Forces (3)

C. 6-12 Credits from the following courses:

09100	Drawing: Visual Thinking 1 (3)
09101	Drawing: Visual Thinking 2 (3)
09205	Computer-Aided Design (3)
09210	Basic Ceramics (3)
09220	Basic Metal (3)
09240	Basic Painting (3)
09250	Basic Photography (3)
09270	Basic Sculpture (3)
09280	Basic Printmaking (3)

Should students favor pursuing advanced level courses in any of the above areas, they may enroll with permission of instructor and the chair after satisfactory completion of the basic course.

Liberal Arts Designation

The following courses count toward the liberal arts requirement: 09105, 09110, 09120, 09150, 09160, 09170.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

09100 Drawing: Visual Thinking 1 (3)

This course is designed to present two basic attitudes towards drawing - first, that of drawing as preparation for larger works or ideas, and second, that of drawing as an end in itself. Prerequisite: Art major.

09101 Drawing: Visual Thinking 2 (3)

Drawing: Visual Thinking 2 will build conceptually on Drawing: Visual Thinking 1, but will place greater emphasis on experimental processes, independent problem solving, and the development of a personal vocabulary. Prerequisite: 09100 and art major.

09102 Integrated Design 1: Space and Form (3)

Integrated Design 1: Space and Form combines two and three dimensional approaches to the concepts of space/scale, site/context, and color/light. Prerequisite: Art major.

09103 Integrated Design 2: Forces (3)

This course combines three and four dimensional (kinetic) approaches to the concepts of time/movement, gravity/weight, and process/materials. Prerequisite: Art major. MPL3 for GE2 students.

09105 Introduction to Drawing and Design I (3)

Specifically oriented for students who have had little or no formal art instruction, this course assists in the development of artistic potential. Problems in drawing, painting and design using a variety of processes and materials. No previous art experience required. Prerequisite: Non-art major.

09110 Introduction to Ceramics (3)

Introduction to basic concepts, tools and methods to form, glaze, decorate and fire pottery and ceramics. Prerequisite: Non-art major.

09120 Introduction to Metal (3)

Introduction to the basic concepts, design and execution of jewelry and objects in a variety of metals requiring different techniques. Prerequisite: Non-art major.

09140 Introduction to Painting (3)

Basic course in the use of materials, organizational concepts in painting (use of light, value and color). Prerequisite: Non-art major.

09150 Introduction to Photography (3)

Introduction to black and white photographic concepts, the use of the camera, film types, processes and techniques. Prerequisite: Non-art major.

09160 Introduction to Printmaking (3)

Survey of studio experience covering basic printmaking processes. Prerequisite: Non-art major.

09170 Introduction to Sculpture (3)

Introduction to sculptural processes involving the use of tools, materials, fabrication techniques and organization of forms in space. Prerequisite: Non-art major.

09202 Color (3)

Explores the phenomena of color in their various manifestations including color as conceptual structure and as perceptual experience. Course work consists of lectures, discussions, presentations and studio projects in collage and water-based painting media. Prerequisite: Sophomore or higher standing in any of the major programs in art and theatre within the School of Fine and Performing Arts. Prerequisite: PI and PC.

09205 Computer Aided Graphic Design (3)

Ghost in the Machine. An investigation of digital media; its application to and implications for Graphic Design. Prerequisite: 09100, 09101, 09102, 09103.

09210 Basic Ceramics (3)

Forming, glazing, decorating, and firing of pottery and ceramics. Sculptural possibilities of ceramics. An overview of ceramic history and contemporary work are researched and discussed. Prerequisite: 09100, 09101, 09102, 09103.

09220 Basic Metal (3)

Introduction to the broad range of materials, techniques and formats characteristic of metal art. Prerequisite: 09100, 09101, 09102, 09103.

09240 Basic Painting (3)

Introduction to painting. Principal concepts and techniques of traditional and contemporary painting. Prerequisite: 09100, 09101, 09102, 09103.

09250 Basic Photography (3)

Introduction to black and white photographic techniques; developing, printing, zone system, experimental techniques and ideas. Prerequisite: 09100, 09101, 09102, 09103.

09260 Basic Wood Design (3)

Exploration of the distinctive characteristics and artistic possibilities of wood, utilizing the techniques of shaping and joining. Prerequisite: 09100, 09101, 09102, 09103.

09270 Basic Sculpture (3)

Introduction to the spatial concepts, materials and techniques utilized in sculpture. Prerequisite: 09100, 09101, 09102, 09103.

09280 Basic Printmaking (3)

Introduction to the printmaking processes in relief, intaglio and lithograph. Historical development of each medium. Prerequisite: 09100, 09101, 09102, 09103.

09300 Advanced Drawing (3)

Problems in drawing in all media, encompassing traditional and experimental concepts, techniques and approaches to image development. May be repeated for credit. Prerequisite: 09100, 09101, 09102, 09103, or PI.

09306 The Visible Word (3)

A hands-on historically-based exploration of the form and origins of written language. Students will work through a range of mark making processes including calligraphic and inscriptional lettering. Prerequisite: 09205 and PI.

09307 Typography (3)

Writing Without a Pen. Covers technical, formal, and expressive aspects of type, the designer's primary vehicle for visual communications. Prerequisite: 09306 and PI.

09308 Digital Photographic Imaging (3)

Combines technical aspects of working with digital photographic images, and theoretical approaches to coding and decoding photographic messages. Prerequisite: 09205 and 09250 and PI.

09309 Printed Books (3)

A hands-on involvement in producing books that contain sustained texts. Topics include book structures, sequential readings, materials and meanings, etc. Prerequisite: 09307 and 09280 and PI.

09310 Visible Language I (3)

An in-depth inquiry into a particular aspect of visual language. Topics vary each time the course is offered. Prerequisite: 09307 and PI.

09311 Graphic Design Applications (3)

Design applications combine studio and practical work. It is an opportunity for students to exercise design skills in a practical setting, with critiques and discussions of projects with faculty and peers. Prerequisite: PI and printed books.

09314 Ceramic Materials (3)

Exploration and research with the nature and methodology of the materials used in ceramics. Prerequisite: 09210.

09315 Ceramics (3)

Concepts and techniques of ceramic fabrication, design, and theory are taught. Various hand and wheel production techniques, history, and firing methods are explored. May be repeated for credit. Prerequisite: 09210.

09318 Ceramic Sculpture (3)

Sculpture and architecturally oriented forms using clay as the medium and vehicle of expression. History and concepts explored. Prerequisite: 09210 and 09270.

09321 Construction and Fabrication (3)

Methods related to building with sheet metal; soldering and welding techniques, as well as mechanical connections. May be repeated for credit. Prerequisite: 09220 and PI.

09322 Processes and Experimental Techniques I (3)

Exploration of non-traditional metal techniques, including electroforming and surface treatments. May be repeated for credit. Prerequisite: 09220, 09321 and PI.

09323 Processes and Experimental Techniques II (3)

Continuation of 09322. Advanced level study involving casting and mold making. May be repeated for credit. Prerequisite: 09220, 09321 and PI.

09324 Enameling (3)

The study of various enameling processes and formats including: Limoges, champleve, cloisonne, and basse taille methods. Prerequisite: 09220 and PI.

09326 Metal Forming (3)

The use and application of metal forming techniques; including raising, forging, and die-forming. May be repeated for credit. Prerequisite: 09220, 09321 and PI.

09331 Experimental Photographic Techniques (3)

Exploration of non-traditional photographic techniques, non-silver processes, enlarged negatives, and problem solving. May be repeated for credit. Prerequisite: 09250.

09332 View Camera (3)

Use of the view camera, fine negative and print controls and studio lighting. May be repeated for credit. Prerequisite: 09250.

09333 Color Photography (3)

Study of basic color techniques and imagery. Prerequisite: 09250.

09343 Intermediate Painting (3)

Further development and exploration of concepts presented in basic painting. Surface organizations, structuring of forms and volumes, value and color in space. Traditional and contemporary approaches to development of imagery. Prerequisite: 09240.

09344 Water Media/Collage (3)

A concentration on the creation of work with water color, polymers, and collage material. May be repeated for credit. Prerequisite: 09240.

09345 Advanced Painting (3)

Advanced study in painting in all media. Individual instruction based on student's development and interests. Non-sequential courses are taught by the staff in open as well as topic-focused workshops. May be repeated for credit. Prerequisite: 09240, 09343.

09350 Advanced Techniques in Black and White Photography (3)

The study of advanced black and white techniques and an increased awareness of photography on an aesthetic level will be stressed. The Zone system, fine printing and processing, and studio lighting will be covered. Prerequisite: 09250.

09361 Wood Design and Techniques (3)

Exploration of wood and its aesthetic potential using advanced techniques of shaping, joining, and finishing as related to design concepts: research and development of furniture forms, their function, fabrication, and relationship to interior spaces. May be repeated for credit. Prerequisite: 09260 or PI.

09370 Book Arts (3)

Book Arts in an interdisciplinary course, designed to introduce students to the concepts and techniques used in making artists' books. Topics to be explored include the visualization of ideas in book form, the book as a physical object, the use of a variety of materials and forms, narrative progression, and combining text and images. Traditional book formats and binding techniques will be taught, but emphasis will be on innovative uses of the book as a vehicle for ideas. Prerequisite: Art studio major, junior or senior, or PI.

09375 Sculpture (3)

Problems in sculpture, fundamental problems in spatial concepts with instruction in varied material and techniques. Non-sequential courses are taught in specialized sections as needed: concentration on carving, construction, life-modeling, terra cotta, welding and brazing, foundry practice, and new media such as plastics and associated technologies. May be repeated for credit. Prerequisite: 09270.

09380 Photo Silkscreen (3)

The course will explore one of the most versatile of printmaking techniques, silkscreen. An emphasis will be placed on photo stencils, multi-color prints, registration, screen construction, all manner of mark making on screen, up scaling of digital imagery, editioning of prints, translation of images on to non-traditional supports. All materials will be water soluble and non-toxic. Prerequisite: 09280.

09385 Printmaking (3)

The course will explore the advanced techniques of hand drawn, photo and/or digital lithography, intaglio, and relief, as well as monotype. Students may develop their ideas in black and white and/or color. May be repeated for credit. Prerequisite: 09280.

09405 Graphic Design Ideas (3)

This course focuses on the application of semiotics and critical theory to Graphic Design Practice. Classes are split between discussions of ideas, issues, and theory, and critiques of studio projects. Prerequisite: PI or junior.

09406 Visual Language II (3)

An inquiry into advanced topics in design, emphasis on technological innovation, new ways of structuring and reading information. Prerequisite: 09308 and PI.

09407, 09408 Graphic Design Thesis I, II (3 each)

The design thesis is a focused exploration of a design idea or area. Students pursue their idea both verbally and visually. Their investigation positions students relative to conventional and contemporary practice. Both visuals and text are formally presented to the design option at the completion of the project. Prerequisite: Senior B.F.A. candidate and PI.

09411, 09412 Senior Studio in Ceramics I, II (3 each)

Independent thesis study. Senior student researches and prepares a body of work for exhibition that is independent of any other course work and is reviewed by the ceramics faculty. Prerequisite: Senior B.F.A. candidate and PI.

09416 Design and Production (3)

Students explore, through studio practice, technical and design concepts as they relate to multiple production problems. Course will include field experience where possible. Prerequisite: 09314.

09420 Contemporary Ideas in Metal (4)

Investigation of specific issues and ideas in metal. Critical evaluation of student's work in contemporary culture; Sr.

Studio preparation. May be repeated for credit. Prerequisite: 09220, 09321, 09322, 09323 and PI.

09421, 09422 Senior Studio in Metal I, II (3 each)

Student researches and creates a major body of work for exhibition which is reviewed by the metal faculty. Prerequisite: B.F.A. candidate, fifteen credits in metal courses and PI.

09441, 09442 Senior Studio in Painting I, II (3 each)

Independent thesis study. Senior student prepares a body of work, independent of any other course work for exhibition. Prerequisite: Senior B.F.A. candidate and PI.

09450 Documentation and Realism in Photography (3)

Application of a documentary approach to fine art photography. May be repeated for credit. Prerequisite: 09332 or 09333.

09451 Contemporary Ideas in Photography (3)

Exploration of concerns in contemporary photography with emphasis on individual projects. May be repeated for credit. Prerequisite: 09331.

09452, 09453 Senior Studio in Photography I, II (3 each)

Independent thesis study. Senior student prepares a body of work, independent of any other course work, for exhibition. Prerequisite: Senior B.F.A. candidate and PI.

09471, 09472 Senior Studio in Sculpture I, II (3 each)

Independent thesis study. Senior student prepares a body of work, independent of any other course work, for exhibition. Prerequisite: Senior B.F.A. candidate and PI.

09480, 09481 Senior Studio in Printmaking I, II (3 each)

Independent thesis study. Senior student prepares a body of work, independent of any other course work, for exhibition. Prerequisite: Senior B.F.A. candidate and PI.

09490 Senior Art Seminar (3)

Required of all senior level BFA candidates and available as an elective to senior level BS and BA candidates as well as graduate students. The seminar explores the theoretical and practical issues that influence the art world and careers of artists. Organized on a topical basis, the course provides a link between theory and practice, school and the art and design professions. Prerequisite: Senior BFA, BS, and BA students with PI.

Graduate Courses

09501 Graduate Art Seminar (3)

An examination of critical and theoretical ideas, social and political conditions, and new environments and technologies that have influenced the perception and production of the visual arts. A range of contemporary art including both experimental as well as more traditional forms is considered. All MAAS and MFA students are required to take this course. Prerequisite: MAAS/MFA candidate or PI (for MS Art Ed. candidate, senior art students, etc.).

09505 Graduate Drawing (3)

Individual and group projects on an advanced level employing a variety of subject matter and media. May be repeated for credit. Prerequisite: Available to undergraduates with PI.

09521 Ceramics I (3)

An exploration of ceramic history and processes marries the studio experimentation with research, discussion and critique. Prerequisite: PI.

09522 Ceramics II (3)

Continuation of Ceramics I, 09521. Prerequisite: PI.

09523 Glazes, Clays, and Bodies (3)

Individual glaze and clay problems. Research and experimentation stresses empirical techniques, unity formula calculations, firing kilns and materials at varying temperatures. Prerequisite: PI.

09524 Ceramic Sculpture (3)

Investigation of concept and material for sculptural or architectural form. Technical consideration, color and the various methods of firing and glazing are explored. Prerequisite: PI.

09533 Metal I (3)

Introduction to various theoretical and critical concerns in metal. Students are expected to begin to explore both aesthetic and procedural alternatives beyond those with which they are familiar. Prerequisite: PI.

09534 Metal II (3)

Continuation of 09533. Prerequisite: PI.

09541, 09542 Painting I, II (3 each)

Projects and individual study in advanced painting conceptions and techniques. Prerequisite: PI.

09551 Photography I (3)

Introduction to graduate photography. Diverse points of view are explored, ranging from the documentary and pictorial approaches to the experimental. Prerequisite: PI.

09552 Photography II (3)

Advanced experimental studies in the personal and imaginative use of photographic materials; emphasis on recent materials and approaches. Prerequisite: PI.

09561, 09562 Printmaking I, II (3 each)

Projects and individual study in advanced printmaking conceptions and techniques. Prerequisite: PI.

09571, 09572 Sculpture I, II (3 each)

Projects and individual study in advanced sculpture conceptions and techniques. Prerequisite: PI.

Art Education

The goal of the program in art education is to prepare teachers who can make creative and meaningful connections between the world of art and the world of the child. To do so, the teacher must understand the possibilities and riches the arts offer and the needs of the child. The ideal teacher is seen as a mediator between the child and art, understanding that teaching, itself, is an art form.

The undergraduate program for art education provides a curriculum leading to the Bachelor of Science degree in Art Education. The curriculum plan includes course work in studio art, art history, art education, and general education. Upon successful completion of the baccalaureate program, students are eligible for New York State Provisional Certification to teach art in the public schools. (For additional information about student teaching and certification, see the section on Teacher Education Programs in the front of this catalog.) Prerequisites to this major include acceptance to the Art Studio program and a cumulative grade point average of 2.75. To declare a major or pre-major in art education, applications are available in the art education office.

Major

Art Education

Bachelor of Science
82 credits

Art Education Requirements25 credits

10190	Influences on Art Education in the United States (3)
10200	Art Criticism (3)
10302	Curriculum and Instruction (3)
10303	Theory and Practice (4)
10405	Student Teaching in Art K-6 (6)
10406	Student Teaching in Art 7-12 (6)

Art Studio Requirement12 credits

09100	Drawing: Visual Thinking 1 (3)
09101	Drawing: Visual Thinking 2 (3)
09102	Integrated Design 1: Space and Form (3)
09103	Integrated Design 2: Forces (3)

Art History Requirement9-12 credits

11201	Art of the Western World I (3)
11202	Art of the Western World II (3)

Each major candidate is required to take three - six additional hours of upper-division art history credit under advisement by art education faculty.

Education Requirement9 credits

Each major candidate is required to take nine hours of courses offered by the Faculty of Education under advisement by art education faculty. Three of the nine hours must address issues pertaining to special populations.

Required Art Studio or

Art Education Electives24-30 credits

15-18 credits demonstrating breadth of two-dimensional and three-dimensional processes selected under advisement by art education faculty from the following:

Ceramics	Photography
Graphic Design	Printmaking
Metals	Sculpture
Art Education Selected Topics	

In addition, 9-12 upper-division credits in one studio area are required.

Each major candidate must complete a minimum of 48 liberal arts credits. Each major candidate must complete a minimum of 45 upper-division credits.

Liberal Arts Designation

The following courses count toward the liberal arts requirement: 10190, 10200, 10400, 10595.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

10190 Influences on Art Education in the United States (3)

Provides an introduction to the role of art and art education in the United States. Historical, philosophical and sociological influences and development related to education in art will be surveyed.

10200 Art Criticism (3)

Examination of problems in the description, analysis, interpretation, and evaluation of art. Attention is given to the history, purposes, theoretical bases, and techniques of criticism as well as to critical performance and evaluation.

10302 Curriculum and Instruction (3)

Study of art education philosophies and practices at elementary through secondary levels from historical and contemporary points of view. Examination of artistic needs and growth development in children and adolescents. Structure and evaluation of art curriculum processes and materials. Prerequisite: PI.

10303 Theory and Practice (4)

An intensive course which develops professional foundations for teaching art. Content includes critical review of related literature, instructional approaches and planning, investigation of art content, evaluation and planning, investigation of art content, evaluation and rationales, examination of child/adolescent art, field practicum. Prerequisite: PI and 10302.

10385 Workshop in Art for Classroom Teachers (3)

Procedures and materials for effective teaching of art in early childhood and upper elementary grades. Prerequisite: AED or education majors (Pre-K-6, 7-12).

10400 Theory of Art Education (3)

Examination of alternative concepts of art education, broad problems and practices in the field, curriculum goals, content and organization. Prerequisite: 10301 and 10302.

10405 Student Teaching in Art K-6 (6)

A full-time experience in the major areas of the art teachers' responsibility in the elementary school. A minimum of 30 hours per week for at least 8 weeks. Prerequisite: Completed curriculum plan, faculty recommendation, 2.75 cumulative grade point average and PI.

10406 Student Teaching in Art 7-12 (6)

A full-time experience in the major areas of the art teachers' responsibility in the high school. A minimum of 30 hours per week for at least 8 weeks. Prerequisite: Completed curriculum plan, faculty recommendation, 2.75 cumulative grade point average and PI.

Art History

Professors:

William Rhoads, Ph.D., Princeton
Jaimee Uhlenbrock (Chair) Ph.D., Institute of Fine Arts, New York University

Assistant Professors:

Elizabeth Brotherton, Ph.D., Princeton
Leatrice Mendelsohn, Ph.D., Institute of Fine Arts, New York University
Reva Wolfe, Ph.D., Institute of Fine Arts, New York University

The Department of Art History offers a curriculum leading to the Bachelor of Arts degree with a wide range of courses in the history of painting, sculpture, architecture, graphic and decorative arts, design, photography and film. These media are studied from prehistoric times to the present in many areas of the world. Classes are conducted through slide lectures that explore the visual form and expressive meaning of individual works of art and their relationship to the cultures that

produced them. Field trips to major museums in the Northeast and to historical sites provide additional on-site instruction and first-hand experience of works of art and architecture. The department also offers "On-Site Studies in Art History Abroad," an intensive summer program that focuses on monuments in context. An active internship program complements the course offerings.

Students planning to pursue graduate study in art history should develop a reading proficiency in one or more foreign languages, usually French and German. Art history majors may elect studio art courses open to non-majors.

A major in art history constitutes an excellent liberal education in itself. Even so, a number of post-graduate career options may be prepared for by combining the major with courses in other disciplines. These options include college teaching, museum work, conservation and restoration of works of art, preservation of historic buildings, archaeology, arts administration, publishing, public relations, law, and area concentrations such as classical studies, medieval studies, and far eastern studies.

Major

Art History

33 credits

Required courses6 credits

- 11201 Art of the Western World I (3)
11202 Art of the Western World II (3)

Electives27 credits

Each major candidate must complete at least one course in each of the following six areas:

1. Classical art
2. Medieval art
3. Renaissance or Baroque art
4. Eighteenth- or Nineteenth-Century art
5. Twentieth-Century art
6. Asian art

Minor

Art History

21 credits

These 21 credits may be distributed over a broad spectrum of art history courses through advisement, or may be a concentration of courses in one or more areas that relate to the student's major field and career goals. The required 7 art history courses must include at least 4 upper-division art history courses and at least 3 art courses not already used to satisfy the requirements of the student's major.

Honors Program in Art History

Art History majors pursuing a Bachelor of Arts degree are encouraged to apply for admission to the Art History Honors Program if they meet all the following criteria: a cumulative average in all course work at the college of 3.0 or above, an average in Art History course work at the college of 3.5 or above, and completion of 21 or more credits in Art History. Application must be made at the beginning of the last semester of the junior year.

Admission to the Honors Program will permit students to enroll in 11461 and 11462, Honors Thesis in Art History I and II (three credits each). Credit for 11461 will not be allowed unless 11462 is completed; only three of these six credits may be used toward completion of the 33-credit major.

Students admitted to the Honors Program will undertake independent study and write a thesis on a subject chosen by the student in consultation with the faculty, approved by the department chair, and supervised by the appropriate member of the faculty. Successful completion of the thesis -- indicated by a grade of B+ or better in 11461 and 11462 -- will result in the student graduating with honors in Art History, a distinction that will appear on the college transcript.

Questions regarding this Honors Program should be directed to the chair of the Art History Department.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

11200 Introduction to the Visual Arts (3)

Introduction to the visual language of art and architecture, formal artistic means, art historical and critical terms. Comparison of major art styles and periods in Western and non-Western art.

11201 Art of the Western World I (3)

Introductory survey of the history of Western art from the Paleolithic era to the end of the Middle Ages.

11202 Art of the Western World II (3)

Continuation of 11201. Renaissance to the present day.

11205 The History of Film I (3)

Historic development of film: the silent classics from the early works of Lumiere and Melies through the technical and ideological evolutions created by American, German, and Russian film makers.

11206 The History of Film II (3)

Historic development of film: tracing the growth of film from the expressive realism of the silents through the various aspects of film realism in the sound era including social realism, Italian neorealism, French new wave, genre, and personal (auteur) approaches.

11207 Film Aesthetics and Criticism I (3)

Aesthetic and critical functions of film within two primary structural models: film as illusion vs. film as reality. Critical references from numerous stances: formalist, psychological, symbolist, existential, sociological, semiotic.

11208 Film Aesthetics and Criticism II (3)

Continuation of 11207. Works of selected film critics. Film showing at each class. Prerequisite: 11207.

11356 Architecture of New York City (3)

The architectural history of the five boroughs from the earliest Dutch buildings of the 17th century to the most recent skyscrapers.

11357 American Art and Society 1900-1950 (3)

American painting and sculpture (with some reference to photography, architecture, and the "decorative arts") from 1900 to 1950 as part of the fabric of American society.

11358 Early Twentieth-Century Art (3)

Major artists and artistic movements in Europe and Russia from the beginning of the century up to the outbreak of World War II.

11359 Art of the Later Twentieth Century (3)

Theory and criticism of developments in art since 1940 such as Abstract Expressionism, Pop, Op, Color Field, Minimal, Earth Art, Conceptual, Superrealism and Neo Expressionism. Prerequisite: 11358 or PI.

11360 Arts of Asia I: The Formative Periods (3)

An introduction to the arts of China, India and Japan; the Neolithic Age through the seventh century. Origins of the individual cultures followed by the shared imagery of the Buddhist faith.

11361 Art of the Renaissance in Italy (3)

Architecture, sculpture and painting in Italy during the 15th and 16th centuries, with emphasis upon the Early and High Renaissance.

11362 Northern European Painting from Van Eyck to Bruegel (3)

Religious and secular painting in the Low Countries, France and Germany during the 15th and 16th centuries. Prerequisite: One art history course or PI.

11363 Early Medieval Art (3)

European art from the fall of the Roman Empire through the barbarian invasions and Carolingian Revival to the end of the Romanesque period.

11364 Later Medieval Art: Gothic (3)

The evolution of the Gothic style in architecture and sculpture in France during the 12th century. The iconography of programs in portal sculpture and stained glass. The dissemination of the Gothic style in Europe to the end of the 15th century. Prerequisite: 11201 or 11363.

11365 Early Greek Art (3)

Greek art from ca. 900 B.C. to the end of the Archaic period.

11366 Later Greek Art (3)

Focus on the art of the Classical and Hellenistic periods, 5th to 1st centuries B.C.

11367 The Art of Ancient Rome (3)

The art and architecture of the Roman Republic and Empire from the 1st century B.C. to the 4th century A.D.

11368 History of Photography (3)

A survey of the art and technique of photography from the earliest forms in the 1840's. The mutual influences between photography and painting, especially in the nineteenth century. The development of cameras and films. The work of individual photographers and the language of criticism of photographs.

11369 History of Modern Design (3)

Ideas and influences which have shaped designed objects in the twentieth century with some emphasis on the rise of industrial design. In addition to furniture, ceramics,

metalwork, glass, textiles, and graphics, other forms such as ships, automobiles, domestic appliances, office equipment and other industrial classic designs.

11370 Art of the Hudson Valley (3)

Survey of painting and architecture in the Hudson Valley from the Colonial period to 1940; some references to sculpture and the decorative arts.

11371 Introduction to Nineteenth-Century Architecture (3)

The development of the picturesque eclectic building styles in Europe and America including Romantic Classicism, Renaissance, Gothic, Queen Anne, Romanesque and Colonial Revivals. Some examination also of the influence of technology on architecture. Prerequisite: 11201 or 11202 or PI.

11372 Introduction to Twentieth-Century Architecture (3)

The development of new forms before World War II by theorists such as Wright, Gropius, Mies and LeCorbusier. The dissemination of these ideas, especially in America during the 1950's. The antiformalist reaction of the 1960's. Contemporary Post-Modernism and eclecticism. Prerequisite: At least one previous art history course recommended.

11373 From Sketch to Masterwork (3)

The processes through which major painters and sculptors have developed their artistic concepts in various art media for painting, sculpture, prints, decorative objects and architecture from the preparatory sketches to the final work.

11374 Prints: Renaissance to Modern (3)

Various graphic media, such as the woodcut, engraving, etching and lithography, in both Western and Far Eastern art from antiquity to the present. Prerequisite: One art history course or PI.

11375 History of Decorative Arts (3)

From the general categories of furniture, metalwork, ceramics, glass, textiles and interior design, the instructor selects certain media and historical periods.

11376 Ink and Brush in China and Japan (3)

The painting styles of China and Japan with special reference to landscape painting, painting in the service of Buddhism, and the influence of Chinese painting on other Asian styles. Prerequisite: One art history course or PI.

11377 Indian Painting: the Mughal and Rajput Schools (3)

An overview of the major schools of north Indian painting from the 16th to the 19th centuries.

11378 Sacred Spaces, Divine Images (3)

The visual and philosophical dimensions of Indian art and architecture from about 2500 B.C. to A.D. 500.

11379 Ceramics of the Far East (3)

A survey of the major ceramic traditions of the Far East from Neolithic times the early 19th century.

11380 Decorative Arts of Asia (3)

A survey of the ceramic, metal, lacquer, jade, ivory and textile arts of Asia.

11381 Arts of Asia II: The Continuing Tradition (3)

The arts of China, India and Japan; seventh century to the present. Hindu sculpture and architecture; Chinese painting and ceramics; the imagery of Zen Buddhism; Asian responses to the West.

11382 American Art (3)

American architecture, painting, and sculpture from the Colonial period to the present.

11383 Baroque and Rococo Art (3)

Painting, sculpture and architecture in Italy, France, the Netherlands, Germany, England and Spain, ca. 1600 to ca. 1750.

11384 Art of the Nineteenth Century (3)

Major directions in European art such as Neoclassicism, Romanticism, Academic art, the Pre-Raphaelites, Realism and Impressionism.

11386 Art of Ancient Egypt (3)

Development of Egyptian art from the Pre-Dynastic Era through the end of the Late Period.

11387 Art of the Islamic World (3)

A survey of Islamic art in Persia, Syria, Egypt, North Africa, Spain and India.

11388 Introduction to the Native Arts of Africa, Oceania & North America (3)

Traditional sculpture, painting, building and crafts of the indigenous peoples of Africa, the islands of the South Pacific, and North America.

11389 Art of Pre-Columbian America (3)

The art and architecture of ancient Mexico, Central America, Colombia, Ecuador and Peru before the Spanish conquest.

11390 Italian Renaissance Painting (3)

From the early 15th through the mid-16th century in central Italy, especially Florence and Rome, and in Venice and other northern centers, covering the Early and High Renaissance and Mannerism. Prerequisite: One art history course or PI.

11391 Baroque Painting (3)

The development of the national schools of painting in Italy, the Low Countries, Spain, France, and England in the seventeenth and eighteenth centuries. Prerequisite: One art history course or PI.

11392 Japanese Prints (3)

An overview of the major Japanese print artists and genres from the 17th to the 19th centuries.

11401 Art of the Ancient Near East (3)

The art and architecture of Asia Minor, Mesopotamia, and Iran from the Neolithic era to the Achaemenian Persian Empire studied in relation to myth, religion and social structure.

11410 Art of the Byzantine Empire (3)

This course examines selected topics in the Byzantine art from its foundations in the art of the early Christians to its final flowering under the Palaeologan dynasty.

11440 Italian Art of the Sixteenth Century (3)

Italian painting, sculpture and architecture of the High Renaissance through Late Mannerism: the works of major artists including Leonardo, Michelangelo, Raphael, Titian and Tintoretto; the sculptors Cellini and Giovanni da Bologna; the architecture of Palladio. Prerequisite: One art history course or PI.

11442 Eighteenth-Century Arts (3)

The era from Louis XIV to Napoleon in painting, sculpture, architecture and the decorative arts.

11444 Impressionism and Post-Impressionism (3)

The development in France of en plein air painting. Impressionist group exhibitions 1874-86. Pointillism. The basis of early twentieth-century art in the work of Van Gogh, Gauguin, Cezanne, and others. Prerequisite: One art history course or PI.

11450 History of Modern Drawing (3)

Drawings using various materials and techniques by painters and sculptors of the 19th and 20th centuries: e.g., Ingres, Degas, Toulouse-Lautrec, Rodin, Picasso, Matisse and other more recent artists.

11451 Introduction to Museum Studies (3)

Historical development of art museums and their function, including the related fields of public art education, arts administration, art conservation etc. Career options in the field. Prerequisite: One art history course or PI.

11461 Honors Thesis in Art History I (3)

Independent study and writing of a thesis under faculty supervision on a topic selected by the student in consultation with the faculty. Open to qualified Art History majors who have been admitted to the Art History honors program. Credit for 11461 is not allowed unless 11462 is completed. Prerequisite: PC.

11462 Honors Thesis in Art History II (3)

Continuation of 11461. Prerequisite: PC and 11461.

Graduate Courses**11500 Art Criticism (3)**

Philosophic and aesthetic foundations for a theory of criticism in the visual arts. Development of critical technique. Prerequisite: One art history course or PI.

11501 Studies in Prehistoric Art (3)

The earliest art and architecture of pre-literature cultures, especially in Europe before about 1000 B.C. Prerequisite: 11201 or PI.

11502 Studies in the Art of the Ancient Near East (3)

An examination of selected topics dealing with the art of Mesopotamia, Iran, Anatolia and the Levant from the seventh millennium to the end of the first. Prerequisite: 11201 or PI.

11503 Studies in the Art of Ancient Egypt (3)

This course examines selected topics relevant to the art and architecture of pharonic Egypt. Prerequisite: 11202 or PI.

11504 Studies in Minoan and Mycenaean Art (3)

This course examines selected topics relevant to the cultures of Crete and Mycenaean Greece from the beginning of the third to the end of the second millennium B.C. Prerequisite: 11202 or PI.

11505 Studies in Greek Art (3)

An examination of selected topics dealing with the art and architecture of Greece, from 1000 B.C. to the end of the first millennium B.C. Prerequisite: 11201 or PI.

11506 Studies in Roman Art (3)

An examination of selected topics dealing with Roman art in the Republican Period and the Imperial Era, from the second century B.C. to the fourth century A.D. Prerequisite: 11201 or PI.

11507 Studies in Byzantine Art (3)

An examination of selected topics dealing with East Christian art from the age of Constantine the Great in the early fourth century B.C. to the fall of Constantinople in A.D. 1453. Prerequisite: 11201 or PI.

11508 Studies in Medieval Art (3)

European art and architecture from the Early Christian period c. A.D. to the end of the Middle Ages c. A.D. 1500. Prerequisite: 11201 or PI.

11509 Studies in Italian Renaissance Art (3)

A detailed analysis of a specific topic concerned with Early Renaissance and High Renaissance art in Italy such as: the Renaissance Portrait; or, Donatello and Early Renaissance Sculpture; or, Classical Subjects in Renaissance Painting and Sculpture -- the influence of Classical Art and Literature. Topics will be chosen to take advantage of art collections and special exhibitions in New York City and other nearby museums. Prerequisite: 11202 or 11361 or 11364 or 11440 or PI.

11510 Studies in Northern Renaissance Art (3)

A detailed analysis of a specific topic such as: Developments in Landscape Painting, Drawing and Prints in the Low Countries, Germany and Austria; Image and Meaning from Bosch to Bruegel; Albrecht Durer, His Contemporaries and His Influence. Topics will be chosen to take advantage of the art collections and special exhibitions of museums in New York City and the region. Prerequisite: 11202 or 11362 or PI.

11511 Studies in Sixteenth-Century Art (3)

This course examines a specific aspect of Renaissance and Mannerist art in Italy, including Italian artistic influence upon northern European artists during this time. Topics that might be investigated include: Problems in Mannerist Art; Titian and Venetian Painting of the Sixteenth Century; Michelangelo as Sculptor, Painter and Architect. Topics will be chosen to take advantage of the art collections and special exhibitions of museums in New York City and the region. Prerequisite: 11202 or 11361 or 11362 or 11440 or PI.

11512 Studies in Baroque Art (3)

This course examines a specific aspect of the art and architecture of the seventeenth century in Europe such as: Rembrandt and His Influence; Genre Painting in the Low Countries; The Baroque Portrait; Bernini and the Roman Baroque. Topics will be chosen to take advantage of the art collections and special exhibitions in museums in New York City and the region. Prerequisite: 11202 or 11361 or 11362 or 11383 or 11440 or PI.

11513 Studies in Eighteenth-Century Art (3)

A detailed analysis of an aspect of the period from Louis XIV to Napoleon in European art and architecture. Topics that could be investigated include: Asian influences in European Art, Architecture and Gardens of the Eighteenth Century; Romantic Classicism to Neo-Classicism -- Changes in a Vision of Classical Antiquity; Women as Subjects, Patrons and as Artists in the Eighteenth Century. Topics will be chosen to take advantage of the art collections and special exhibitions in museums in New York City and the region. Prerequisite: 11202 or 11383 or 11442 or PI.

11514 Studies in Nineteenth-Century Art (3)

A detailed analysis of an aspect of nineteenth-century European art. Prerequisite: 11202 or PI. Students should have a basic understanding of the study of nineteenth-century art on the graduate level.

11515 Studies in Twentieth-Century Art (3)

Theory and criticism of major artists and artistic movements in Europe, America and elsewhere from the beginning of the century to the present. Prerequisite: 11202 or PI.

11516 Studies in American Art (3)

A detailed analysis of an aspect of American art from the Colonial period to the present. Students should have a basic understanding of the styles and periods of European art since the Renaissance as a foundation for the study of American art on the graduate level. Prerequisite: 11202 or PI.

11517 Studies in East Asian Art (3)

This course examines selected topics relevant to the arts and architecture of China, Korea, and Japan from the earliest times to the twentieth century. Prerequisite: 11360 or 11381 or PI.

11518 Studies in South Asian Art (3)

This course examines selected topics relevant to the arts and architecture of South Asia, including India, Pakistan, Bangladesh, and Sri Lanka. Prerequisite: 11360 or 11383 or PI.

11519 Studies in Islamic Art (3)

This course examines selected topics relevant to the arts and architecture of the Islamic world, including both the central Islamic lands and outlying areas of Europe, Africa, and Asia. Prerequisite: 11201 or PI.

11520 Studies in Pre-Columbian Art (3)

Art and architecture in Mexico, Central and South America before European intervention c. A.D. 1500. Prerequisite: PI.

11521 Studies in the Native Arts of Africa, Oceania, and North America (3)

Traditional sculpture, painting, building and crafts of the indigenous peoples of Africa, the islands of the South Pacific and North America. Prerequisite: PI.

11522 Studies in the History of Architecture (3)

Theory and criticism of architectural development at certain times and in certain places selected at the discretion of the instructor. Prerequisite: 11201 or 11202 or PI.

11523 Studies in the History of Drawings (3)

This course examines specific aspects of style, technique, and function of drawings in the context of works for which they are preparatory studies and, also, drawings as finished works of art. Detailed analysis of individual topics would be emphasized in the context of subjects such as: Italian Renaissance Drawings; or, Landscape-Studies from Nature; or, Redefinitions of Drawing in the Twentieth Century. Topics will be chosen to take advantage of the art collections and special exhibitions of museums and galleries in New York City and the region. Prerequisite: 11202 or 11373 or 11450 or PI.

11524 Studies in the History of Prints (3)

A detailed examination of a selected topic concerned with developments in the art of the print, such as: Innovation in Impressionist and Post-Impressionist Prints; or Illustrated Books and Artists' Prints; or Japanese Prints and their Influence on Western Artists in the nineteenth century. Prerequisite: 11202 or 11374 or PI.

11525 Studies in the History of Decorative Arts (3)

The aesthetics and techniques of media other than architecture, painting, sculpture and the graphic arts, namely ceramics, metalwork, furniture, glass and other decorative objects. Prerequisite: 11202 or PI.

11526 Studies in the History of Design (3)

Evolution of form and function in objects made in media such as furniture, glass, ceramics, metalwork and graphics with an emphasis on the rise of industrial design in the nineteenth and twentieth centuries. Prerequisite: 11202 or PI.

11527 Studies in the History of Photography (3)

Aesthetics and criticism of photography from its inception in the nineteenth century until today. Prerequisite: 11205 or 11206 or PI.

11528 Studies in the History of Film (3)

Aesthetics and criticism of film since its inception at the beginning of the twentieth century. Prerequisite: 11205 or 11206 or PI.

11529 Studies in Art Theory and Criticism (3)

Studies concerning the ways in which art is created, perceived and discussed as well as its relationship to the political, social, economic and religious forces of the society in which it is produced. Prerequisite: 11202 or PI.

11569 Art in Contemporary Culture (3)

Role of the visual arts in contemporary culture. Relation of social and political forces to art expression, role of the artist in contemporary society, and dominant directions in contemporary art. Prerequisite: One nineteenth- or twentieth-century art history course or PI.

11571 Film Aesthetics and Criticism (3)

Aesthetic basis of film as an art form. Critical analysis of six major film works from silent and sound eras. Examination of structural and symbolic theories of film; specific study of shooting scripts and final film. Readings from Eisenstein, Munsterberg, Arnheim, and contemporary criticism.

Music

University Professor:

Vladimir Feltsman, D.M.A., Moscow Conservatory

Professors:

William J. McCann, D.M.A., Catholic
Lee H. Pritchard (Chair), M.M., Indiana

Associate Professors:

Mary E. Boyle, Ed.D., Columbia
Carole Cowan, D.M.A., Yale
Barbara Hardgrave, M.M., New England Conservatory
Robert E. Krout, Ed.D., Columbia
Robert Mumper, D.Mus., Indiana

Assistant Professors:

Mark Dziuba, M.M., University of Illinois-Urbana
Harry Jensen, M.M., Northwestern
Edward Lundergan, D.M.A., University of Texas
Shafer Mahoney, M.A., Eastman School of Music

Programs in music are designed to develop awareness of the beauty and meaning of the art as practiced in the past and present. Flexibility is encouraged in the planning of individual programs, both for those who wish to major in music and for those who may wish to acquaint themselves with this facet of

our culture. Most music courses reflect an integrated approach to the study of music.

Music majors will choose a concentration in performance, performance/jazz studies, music history and literature, or music theory and composition. A B.S. degree in music therapy, with a separate set of requirements, is also available. An audition is required of students for acceptance into either the music or music therapy programs. The audition, patterned after the New York State School Music Association auditions, will include two solos on the major instrument, scales, and sight reading. A placement test will determine the theory level of the student.

SUNY at New Paltz is fully accredited by the National Association of Schools of Music and the National Association for Music Therapy.

No course (including transfer courses) in which a grade lower than "C-" is received may be used to satisfy requirements in any major offered by the Department of Music.

Majors

Music

60-61 credits

Required courses for all Music majors except Music Therapy and Jazz Studies39 credits

- 66141-145 Participation in Major Music Organization (4 semesters) (8)*
- 66150 Concert Series Attendance (4 semesters) (0)
- 66XXX 3 semesters of Piano (6)**
- 66203 Theory I (3)
- 66204 Theory II (3)
- 66231 Sight Singing and Ear Training I (1)
- 66232 Sight Singing and Ear Training II (1)
- 66303 Theory III (3)
- 66320 Keyboard Harmony (2)
- 66331 Music of the Middle Ages and Renaissance (3)
- 66332 Music of the Baroque and Classical Periods (3)
- 66333 Music of the Romantic and Contemporary Periods (3)
- 66364 Form and Analysis (3)

* Any credits in excess of 8 can be used to fulfill music elective requirements. A minimum of three semesters of ensemble participation must be taken in residence.
** Piano I, II, III.

One of the concentrations below21-24 credits

Music History and Literature

- Required courses21 credits*
- 66221-222 Applied Music (begins in Sophomore year) (4)
- 66365 Instrumentation (3)
- 66366 Counterpoint (3)
- 66430 Bibliographic Research in Music (3)
- 66490 Senior Project (0)
- Electives in Music (8)

Performance

- Required courses22 credits*
- 66221-422 Applied Music (8 semesters) (16)
- 66483 Senior Recital (0)
- Electives in Music (6)

Music Theory and Composition

Required courses24 credits

- 66221-222 Applied Music (begins in Sophomore year) (4)
- 66310 Jazz Theory I (3)
- 66350 Computer and Electronic Music (3)
- 66365 Instrumentation (3)
- 66366 Counterpoint (3)
- 66367 Techniques of Composition (3)
- 66490 Senior Project (0)
- Electives in Music (5)

Recommended Elective in Music3 credits

- 66346 Conducting (3)

NOTE: A student granted a waiver of any music course(s) must take an equivalent number of credits in other music course(s) as electives.

Jazz Studies

62 credits

Required Courses62 credits

- Participation in Major Music Organization (6 semesters) (12)*
- 66150 Concert Series Attendance (4 semesters) (0)
- 66160 History of Jazz (3)
- 66201 Piano I (2)
- 66202 Piano II (2)
- 66203 Theory I (3)
- 66204 Theory II (3)
- 66210 Jazz Improvisation Workshop (2)
- 66221-422 Applied Music (8 semesters) (16)
- 66231 Sight Singing and Ear Training I (1)
- 66232 Sight Singing and Ear Training II (1)
- 66310 Jazz Theory and Keyboard I (3)
- 66311 Fundamentals of Jazz Composition and Arranging (3)
- 66332 Music of the Baroque and Classical Periods (3)
- 66333 Music of the Romantic and Contemporary Periods (3)
- 66365 Instrumentation (3)
- 66410 Jazz Improvisation Workshop (2)
- 66483 Senior Recital (0)

Recommended Electives in Music

- 66210-410 Jazz Improvisation Workshop (2)
(May be repeated for credit.)
- 66350 Computer and Electronic Music (3)
- 66364 Form and Analysis (3)
- 66365 Instrumentation (3)

* To be chosen from the following courses: *Jazz Ensemble, Chamber Jazz Ensembles (no more than 3 semesters), Vocal Jazz Ensemble, Musical Theatre Orchestra.*

NOTE: A student granted a waiver of any music course(s) must take an equivalent number of other music course(s) as electives.

Music Therapy

105 credits

Required courses in Music60 credits

- 66141-145 Participation in Major Music Organization (4 semesters) (8)*
- 66150 Concert Series Attendance (4 semesters) (0)
- 66XXX 3 semesters of Piano (6)**
- 66203 Theory I (3)
- 66204 Theory II (3)
- 66205 Voice I (2)
- 66217 Guitar I (2)
- 66218 Guitar II (2)
- 66221-422 Applied Music (begins in Sophomore year) (8)
- 66231 Sight Singing and Ear Training I (1)
- 66232 Sight Singing and Ear Training II (1)
- 66303 Theory III (3)
- 66320 Keyboard Harmony (2)
- Choose 2 out of 3:*
- 66331 Music of the Middle Ages and Renaissance (3)
- 66332 Music of the Baroque and Classical Periods (3)
- 66333 Music of the Romantic and Contemporary Periods (3)
- 66346 Conducting (3)
- 66364 Form and Analysis (3)
- 66365 Instrumentation (3)
- Electives in Music (4)

* Any credits in excess of 8 can be used to fulfill music elective requirements. A minimum of three semesters of ensemble participation must be taken in residence.
**Piano I, II, III.

Required courses in Music Therapy24 credits

- 66240 Introduction to Music Therapy (3)
- 66340 Music Therapy Methods and Materials (3)
- 66345 Psychology of Music (3)
- 66440 Music in Therapy (3)
- 66441 Problems and Issues in Music Therapy (3)
- 66442 Experimental Research in Music and Music Therapy (3)
- 66480 Music Therapy Practicum (3 semesters) (6)

A fourth semester of Practicum may be used to fulfill 2 credits of General College Elective.

Required related courses19 credits

- 07481 Transcultural Health (3)
- 15116 Biological World (4)
- 15170 Human Biology (3)
- 39210 Psychology of Exceptional Children (3)
- 80272 General Psychology (3)
- 80412 Abnormal Psychology (3)

College requirements must be met and additional courses taken to total a minimum of 127 credits, as required by NAMT.

After completing the required academic courses each Registered Music Therapist candidate is required to complete a six-month internship at a National Association for Music Therapy, Inc. approved clinical facility.

Upon successful completion of the internship, the student must pass the National Certification Exam for Music Therapists in order to be a Board Certified Music Therapist.

NOTE: A student granted a waiver of any music course(s) must take an equivalent number of credits in other music course(s) as electives.

Minor

Music

25 credits

Required courses 25 credits

- 66106 Fundamentals of Theory or 66203 Theory I (3)*
 66203 Theory I or 66204 Theory II (3)*
 66141-145 Participation in Major Music Organization (2 semesters) (4)
 66201 Piano I (2)
 66202 Piano II (2)
Choose 2 out of 3:
 66331 Music of the Middle Ages and Renaissance (3)
 66332 Music of the Baroque and Classical Periods (3)
 66333 Music of the Romantic and Contemporary Periods (3)
 Electives in Music (5)

* Entrance by placement exam.

NOTE: A student granted a waiver of any music course(s) must take an equivalent number of credits in other music course(s) as electives.

Liberal Arts Designation

All courses in music theory and music history count towards the liberal arts requirements. The following courses in music theory also count towards the liberal arts requirements: 66240, 66345, 66441, 66442. The other courses in music theory and all courses in applied music and performance do not count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

66100 The World of Music (3)

A broad-based survey course for the non-major designed to illustrate the elements of the art and the cultural styles employed, with numerous examples of both functional and professional application. Team-taught, there will be lectures and live performances by the entire Music faculty. Not open to music majors.

66106 Fundamentals of Music Theory (3)

Working knowledge of the rudiments of music, e.g., scales, keys, intervals, chords, and basic principles of rhythm, melody, harmony and form. Knowledge applied in sight singing, ear training, keyboard, and creative activities.

66109 Introduction to Music (3)

Music of the world as a form of communication. Attend weekly live performances preceded by a seminar to enhance the listener's understanding of the techniques employed by composers and performers. May not be counted toward the music major.

66141 College-Community Orchestra: Youth Symphony of the Hudson Valley (2)

The orchestra performs primarily classical works throughout the mid-Hudson region with selected students and guest artists as soloists. Consultation with the director is recommended before registering. May be repeated for credit.

66142 College-Community Chorale (2)

The largest combined choral ensemble of the College. Open to all students, faculty and community members on a non-audition basis. Consultation with the director is recommended before registering. May be repeated for credit.

66143 Symphonic Band (2)

Performs the highest quality wind band music ranging from classical to popular. Student and guest soloists appear. Consultation with the director is recommended before registering. May be repeated for credit.

66144 Concert Choir (2)

The major performing choral ensemble of the College. Membership is open to college students (both music and non-music majors) by audition. Commitment is for the academic year, September to May. May be repeated for credit.

66145 Collegium Musicum (2)

A performance course, primarily of Medieval, Renaissance and Baroque music. Study of vocal and instrumental performance practices of these periods. Early instruments are used as much as possible. Consultation with the director is recommended before registering. May be repeated for credit. Prerequisite: Ability to read music.

66146 Chamber Singers (2)

A vocal chamber ensemble of students selected from Concert Choir which sings primarily madrigal literature of various periods. Advanced singers gain ensemble experience in a select group of 16 to 20 performers. Commitment is for the academic year, September to May. Consultation with the director is recommended before registering. May not be counted as major ensemble credit, but may be repeated for credit. Prerequisite: 66144 and PI.

66147 Jazz Ensemble (2)

For accomplished instrumentalists, preparation and performance of music from the jazz idiom. Except for keyboard and guitar players, may not be counted as major ensemble credit, but may be repeated for credit. Prerequisite: PI.

66148 Instrumental Chamber Ensemble (1)

Training in ensemble performance for the proficient musician. Precision, intonation, interpretation, and comparative study of chamber music styles. May not be counted as major ensemble credit, but may be repeated for credit. Prerequisite: PI.

66149 Vocal Jazz Ensemble (2)

The focus of this course is on the preparation and performance of various styles of vocal jazz literature. There is training in solo and ensemble vocal improvisation. At least one major concert is presented each semester. Except for vocal jazz majors, may not be counted as major ensemble credit, but may be repeated for credit. Prerequisite: PI and audition.

66150 Concert Series Attendance (0)

Required of all declared music majors (four semesters). Students will fulfill this requirement by attending a minimum of eight approved concerts during the semester. Prerequisite: Music major.

66160 History of Jazz (3)

History of jazz as a musical and sociocultural development of the twentieth century. In addition to analyzing the development of jazz styles in musical terms, this course traces the effect of cultural forces on this uniquely American music.

66162 Chamber Jazz Ensembles (2)

Rehearsal and performance of instrumental and vocal jazz literature for the small jazz ensemble (2-8 performers). Focus on developing ensemble awareness, familiarity with jazz performance practices, improvisation, and stylistic distinctions. Placement in a group of students with similar levels of experience based upon an entry audition. At least one major concert is presented each semester. Prerequisite: PI.

66201 Piano I (2)

For beginners. Class instruction to develop the ability to play elementary pieces and to gain a concept of the basic requirements of a performing technique. Special emphasis on basic keyboard harmony skills. Not for applied piano majors.

66202 Piano II (2)

Continuation of Piano I. Not for applied piano majors. Prerequisite: 66201 or PI.

66203 Theory I (3)

The basic principles of rhythm, melody and harmony are applied to partwriting. Cadences, harmonic progressions, non-harmonic tones, inversions, analysis and creative activities. Prerequisite: PI. Corequisite: 66231.

66204 Theory II (3)

Continuation of Theory I. Harmonic sequence, dominant and non-dominant seventh chords, modulation, additional non-harmonic tones, melodic construction, accompaniments, small binary and ternary forms, analysis and creative activities. Prerequisite: 66203 and a grade of C or better in 66231. Corequisites: 66202 and 66232. MPL 3 for GE2 students.

66205 Voice I (2)

Class instruction for students with little or no previous vocal training. Emphasis on basic vocal techniques -- breath control, posture and focus -- through vocalises. Study of Italian diction, early Italian songs and simple songs in English. Not for applied voice majors.

66206 Voice II (2)

Continuation of the study of vocal technique. Repertoire will be selected from songs in Italian and English. Prerequisite: 66205 or PI.

66207 Jazz Piano I (2)

An introduction to jazz techniques, tricks, and styles of piano playing. Included in the course of study will be: formation of jazz melodies, using jazz riffs, scales and arpeggios; chords and chord substitutions; chord progressions, including the 2-5-1 progression, blues progression, turn-arounds, and cycle-of-fifths; styles of various jazz pianists; and the application of the above techniques and styles to the playing of popular and jazz standards. Prerequisite: 66204 and PI.

66208 Jazz Piano II (2)

Continuation of 66207 Jazz Piano I. Prerequisite: 66204, 66207 and PI.

66210 Jazz Improvisation Workshop (2)

Instruction in jazz style improvisation in traditional and contemporary jazz literature. Solo and ensemble improvisation exercises to develop improvisational skill and technique in all styles. Emphasis on concepts of scale selection, melodic balance and contour, tension and release, and development of an individual voice as a jazz improviser. Assigned projects in analysis, preparation, and in-class performance of selected jazz literature. Prerequisite: 66203.

66217 Guitar I (2)

An introduction to the folk guitar, focusing on chords, runs, strums, picking patterns and repertoire development. Prerequisite: Music major or PI.

66218 Guitar II (2)

For music therapy majors, continuation of Guitar I, with emphasis on barre chords, picking and strumming patterns, and repertoire development. Required for guitar performance proficiency. Prerequisite: 66217 or PI.

66221, 66222, 66223 Applied Music (2 each)

Individual weekly lessons in voice, piano, string, wind, brass and percussion instruments. For music majors only. Prerequisite: PI and declared Music major.

66228 Applied Studio Class (1)

Applied voice students develop performance skills in workshop setting, performing regularly and observing one another. Analysis of individual performances guided by the instructor. Corequisite: 66221 or 66222, Applied Voice.

66231 Sight Singing and Ear Training I (1)

Basic training through musical activity exercises: action in time (rhythm and meter); action in space (pitch and intervals, scales); and coordinated action (combining time and space). Prerequisite: Music major or PC. Corequisite: 66203.

66232 Sight Singing and Ear Training II (1)

Continuation of Sight Singing and Ear Training I. Prerequisite: Music major or PC. Corequisite: 66204.

66240 Introduction to Music Therapy (3)

An overview of the field of music therapy which focuses on the role of the music therapist with psychiatric, geriatric, physically handicapped and developmentally disabled populations. Clinical observations at public and private rehabilitation centers.

66300 Explorations: The Lively Arts in New York City (6)

A look behind the scenes at the creative process in the arts. Interviews in New York City with composers, directors, sculptors, actors, painters, etc. followed by visits to museums and galleries, theatre productions, and musical performances. Preparation for each visit will take place during regularly scheduled class meetings on campus at New Paltz. Prerequisite: PI and 3.00 GPA.

66301 Piano III (2)

Continuation of Piano II. May not be counted toward the liberal studies piano major. May be repeated for credit. Prerequisite: 66202 or PI.

66303 Theory III (3)

Continuation of Theory II. Diminished sevenths and half-diminished sevenths, altered chords, advanced modulation, ninth chords, analysis and creative activities. Prerequisite: 66204 and a grade of C or better in 66232.

66310 Jazz Theory and Keyboard I (3)

Fundamentals of jazz harmony. Chord voicings, alterations, and progressions. Use of scales and modes in jazz improvisation. Written and keyboard exercises, transcription of jazz solos, melodic and rhythmic dictation of jazz literature. Prerequisite: 66201, 66203 and 66204 or PI.

66311 Fundamentals of Jazz Composition and Arranging (3)

Jazz theory, analysis, composition and arranging for the large and small ensemble. Applications of concepts from Jazz Theory and Keyboard I: advanced harmonic, rhythmic, and analytical study. Prerequisite: Jazz Theory I or PI.

66320 Keyboard Harmony and Improvisation (2)

This course is designed to supplement courses in written theory, sight-singing, and ear-training. It will develop skills in sight-reading, transposition, accompaniment, and improvisation at the keyboard. Prerequisite: 66301 and 66303.

66326 Diction for Singers I (3)

Study and application of the rules of Italian diction for singing; pronunciation learned through drill work and applied to songs sung in class. Voice prerequisite may be taken concurrently. At least one semester of a language other than English recommended. Prerequisite: Applied Voice or PI.

66327 Diction for Singers II (3)

Continuation of Diction for Singers I, with emphasis on French and German diction for singing. Prerequisite: 66326 or PI.

66331 Music of the Middle Ages and Renaissance (3)

A study of the history of Western music from ancient Grecian civilization to 1600.

66332 Music of the Baroque and Classical Periods (3)

A study of the history of Western music from 1600 to early Beethoven.

66333 Music of the Romantic and Contemporary Periods (3)

A study of the history of Western music from the middle period of Beethoven's compositions to the present time.

66334 The Symphony (3)

Development of the symphonic form in terms of historical significance and problems of interpretation. Works by composers such as D. Scarlatti, C.P.E. Bach, Haydn, Mozart, Beethoven, Brahms, Milhaud and others are analyzed. Current concerts and media programs are studied.

66335 The Opera (3)

Representative opera from the seventeenth century to the present, and cultural and intellectual forces involved. Use of recordings, tapes, media programs, movies and, where possible, live performance. Course is sometimes team-taught.

66336 The Art Song (3)

Origins and growth of the art song from the early Italian school to the present in recorded and live performances and in printed score.

66338 Chamber Music (3)

Evolution and growth of the sonata from its seventeenth-century backgrounds to the present through the study of the score and listening to recorded and live performances.

66340 Music Therapy Methods and Materials (3)

Plan, demonstrate and evaluate music activities for specific patient populations served by music therapists. Skills in circle and square dancing, leading group music activities, playing non-symphonic instruments and basic improvisation. Prerequisite: Music major or PI.

66345 Psychology of Music (3)

Introduction to the psychology of music. Focuses on psychological and physiological aspects of music behavior.

66346 Conducting (3)

Basic skills and training in rudimentary rehearsal techniques. Practical conducting experience with small vocal and instrumental ensembles in class and, where possible, with major ensembles. Prerequisite: 66303 and 66364.

66349 Piano Improvisation (3)

Organized approach to creating music spontaneously, i.e., improvising; manipulation of the various elements of music; exposure to a variety of approaches and settings for improvisation. Piano and other sound sources and stimuli. Prerequisite: 66204 and PI.

66350 Computer and Electronic Music (3)

This course provides the student with training in multiple instrument digital interface (midi) and computer-driven electronic music processes. Exploration of electro-acoustic music through a historical/analytical and hands-on approach.

66364 Form and Analysis (3)

Principal forms and compositional devices employed in music. Various masterpieces studied from the score. Rhythmic, structural, harmonic and contrapuntal factors. Prerequisite: 66303.

66365 Instrumentation (3)

Characteristics of the instruments and how they are employed in scoring for full orchestra or band. Prerequisite: 66303.

66366 Counterpoint (3)

Two-part writing in the eighteenth-century style. Imitative forms such as the canon and invention. Various contrapuntal devices and techniques. Prerequisite: 66303.

66367 Techniques of Composition (3)

Composers' techniques and their written application to the shaping of musical content and form. Prerequisite: 66366.

66370 Current Issues in the Arts (2)

Deals with contemporary issues in the arts as influenced by political, economic and social forces. Freedom of artistic expression, government funding and its ramifications, private arts funding, the changing arts audience and other issues will be covered. Readings will be taken from recent periodicals. A series of prominent guest speakers will be on hand to present their viewpoints. Prerequisite: Sophomore or junior standing and declared major in theatre, music or visual arts.

66373 Basic Arts Administration (2)

An introduction to varied aspects of individual and organizational arts management including: the structure and function of profit and not-for-profit arts organizations; board structures and responsibilities; national, state and local public funders and their policies, private foundations; and the individual donor and volunteer. Also the marketing of the arts including: advertising, promotion, and audience development for both individual artists and organizations. Prerequisite: Sophomore or junior standing and declared major in theatre, music or visual arts.

66376 Production Seminar (2)

Beginning with the development of concepts that are capable of underlying and unifying artistic events, the class will work out theoretical realizations for proposed artistic presentations (theatrical, musical, or dance events). These initial concepts

will be realized through the development of model budgets, advertising campaigns, fund-raising, grant-writing, casting and stage-management. Prerequisite: 66370, 66373, and PI.

66379 Arts Administration Internship (2)

An opportunity for students to gain hands-on arts administration skills through work experience. Students will be assigned to arts offices both on and off-campus by the Director of Arts Services and will assist with production, planning, marketing, advertising, box office, record-keeping and so forth. Prerequisite: 66370, 66373, and PI.

66383 Junior Recital (0)

Recital opportunity for junior-level students in applied music. Program planned with and approved by the applied music instructor. Prerequisite: PI and PC.

66403 Summer Arts in the Hudson Valley (3)

An exploration of summer music, theatre, and art events in the Hudson Valley. Classroom preparation by performers, artists, and experts in the field plus attendance at concerts, plays, art exhibits, and other art events. A fee of approximately \$100 for theatre and concert tickets will be collected at the first class meeting.

66410 Jazz Improvisation Workshop (2)

Instruction in jazz style improvisation in traditional and contemporary jazz literature. Solo and ensemble improvisation exercises to develop improvisational skill and technique in all styles. Emphasis on concepts of scale selection, melodic balance and contour, tension and release, and development of an individual voice as a jazz improviser. Assigned projects in analysis, preparation, and in-class performance of selected jazz literature. Prerequisite: 66203.

66421, 66422, 66423 Applied Music (2 each)

Individual weekly lessons in voice, piano, string, wind, brass and percussion instruments. For music majors only. Prerequisite: PI and declared music major.

66428 Applied Studio Class (1)

Applied voice students develop performance skills in workshop setting, performing regularly and observing one another. Analysis of individual performances guided by the instructor. Corequisite: 66421 or 66422, Applied Voice.

66430 Bibliographic Research in Music (3)

Exploration of research methods, sources, critical theories, and problems in musicology. Investigation of performance practices. Development of Senior Project thesis. Weekly projects, presentations, and reports required. Prerequisite: 66331, 66332, or 66333.

66440 Music in Therapy (3)

Advanced clinical techniques in music therapy are analyzed in terms of the needs of various populations. Prerequisite: 66340 and 66345.

66441 Problems and Issues in Music Therapy (3)

Legal, ethical and moral issues affecting music therapists. Topics include: the client's right to treatment or habilitation, therapist accountability and advocacy issues. Prerequisite: 66440.

66442 An Introduction to Experimental Research in Music and Music Therapy (3)

An introductory course in experimental research strategies and tactics appropriate to the field of music designed to aid the

student in reading research articles. Topics of study include: physical, perceptual and psychological bases for music experimentation, major research designs in group and single-subject research, typical statistics reported in group research, structure of research questions and their implications, and parameters of given studies in terms of measurement and observation procedures. Prerequisite: 66345 recommended.

66480 Music Therapy Practicum I (2)

Clinical application of music therapy techniques. Minimum one hour per week in an approved facility working with a variety of handicapped populations. Supervision by college music therapy faculty, weekly meetings with supervisor and seminar attendance. Three semesters required of music therapy majors. Prerequisite: PI.

66481 Music Therapy Practicum II (2)

Clinical application of music therapy techniques. Minimum one hour per week in an approved facility working with a variety of handicapped populations. Supervision by college music therapy faculty, weekly meetings with supervisor, and seminar attendance. Three semesters required of music therapy majors. Prerequisite: PI.

66482 Music Therapy Practicum III (2)

Clinical application of music therapy techniques. Minimum one hour per week in an approved facility working with a variety of handicapped populations. Supervision by college music therapy faculty, weekly meetings with supervisor, and seminar attendance. Three semesters required of music therapy majors. Prerequisite: PI.

66483 Senior Recital (0)

Equivalent of Senior Project (66490) for Applied majors only. Program planned with and approved by the applied instructor. Prerequisite: PI and PC.

66490 Senior Project (0)

The nature of the research and/or creative activity is determined by the student and his project advisor and approved by the chair. The project may be analytical, historical or creative. Required of History/Literature and Theory/Composition majors in their senior year. Prerequisite: PI, PC, and Senior.

Graduate Courses

66500 Introduction to Musicology (3)

Bibliographical material and techniques in music research. Application to individual and class projects. Prerequisite: 66204 and 66331 or PI.

66515 Music in Contemporary Society (3)

Appreciation of music through a broad view of the world of music as a form of communication. A seminar precedes attendance at a weekly live performance. Many forms and styles of music and the techniques employed by composers and performers in contemporary society. May not count toward music major.

66521, 66522 Applied Music (2 each)

Individual weekly lessons in voice, piano, string, wind, brass, and percussion instruments. Lessons adapted to the needs of the student. Prerequisite: PI.

66560 Topics in Music of the Middle Ages and Renaissance (3)

Selected topics in theory, styles, forms and performance practice in Western music to 1600. Prerequisite: 66331 or PI.

66561 Topics in Music of the Baroque Period (3)

Selected topics in theory, styles, forms and performance practices in Western music from 1600 to 1750. Prerequisite: 66204 and 66332 or PI.

66562 Topics in Music of the Classic and Romantic Periods (3)

Selected topics concerning the most significant instrumental, vocal and theoretical developments in Western music from the mid-eighteenth- through the nineteenth-century. Prerequisite: 66303 and 66332 or 66333 or PI.

66563 Topics in Modern Music (3)

Music of the past century in the Western hemisphere. Discussion of modern music as evidenced in works of Strauss, Debussy, Stravinsky, Schoenberg, Hindemith, Bartok, Ives, Webern, and others. Prerequisite: 66303 and 66333 or PI.

66572 Advanced Instrumentation (3)

Advanced scoring and arranging for small and large instrumental string and wind ensembles. Prerequisite: 66365 or PI.

66573 Advanced Choral Conducting (3)

Criteria for selecting choral music for ensembles of at least secondary level; musical analysis and score reading of works of varying degrees of difficulty; application of advanced rehearsal and conducting techniques for choral ensembles and choral ensembles with instruments. Prerequisite: 66346 or PI.

Theatre Arts

Professors:

Beverly Brumm, Ph.D., M.F.A., Yale University
Frank Kraat, M.A.T., Indiana University
Joseph C. Paparone, Ph.D., Indiana University

Associate Professors:

Katherine H. Ingram (Chair), M.F.A., University of Alabama
Lee H. Pritchard, M.M., Indiana University

Assistant Professors:

Stephen G. Judd, M.F.A., University of Georgia
John J. Rutuelo, M.F.A., Pennsylvania State University
James D. Scott, M.F.A., University of Connecticut
Dan Swartz, M.A., Indiana University

Lecturers:

Diana Banks, Agnes DeMille Dance Theatre
Michael Piotrowski, B.S., SUNY-New Paltz

The study of the history, theory and performance of theatre arts provides students opportunities to acquire a new perspective on themselves, human society and the world. The Theatre Arts program is designed to give students experience in a wide range of activities thereby providing an excellent overview of the discipline. Students may choose either a Bachelor of Arts or a Bachelor of Science in Theatre Arts with advanced training courses available, or a Bachelor of Fine Arts in Scenography. An audition and/or interview is required for all students who wish to become a Theatre Arts major.

Students earning a B.A. or B.S. in Theatre Arts will receive a broad, rich experience in theatre practice, along with studies in

history, theory, and performance of theatre arts. There is no difference within the Theatre Arts program between the B.A. or B.S. degree; this distinction is made based upon the total number of Liberal Arts credits a student earns within the 120 credits required for graduation from the college (90 required for a B.A., 60 for a B.S.). A student may elect to concentrate in Performance studies (Acting, Directing, Musical Theatre) or Design/Technical studies. As students develop and grow within the program, they may audition and/or interview for entry into advanced training, pre-professional courses which are available in all areas.

Students in the B.F.A. Scenography program are admitted into this program based on portfolio review. Continuation in the program is based upon faculty evaluations which take place every semester. B.F.A. candidates must successfully complete a senior design project.

Major

Theatre Arts

52 credits

NOTE: Theatre Arts Participation, 91301, must be taken four times for a total of 4 credits.

**Special Note: A grade of "C-" or better must be earned in all theatre courses to earn credit toward a Theatre major.*

Substitutions for courses in any specific area of the program may be approved by the Departmental Chair.

Theatre Core Requirements31 credits

- 91231 Acting I (3)
- 91251 Theatre I (3)
- 91252 Stagecraft I (3)
- 91253 Costume Construction I (3)
- 91254 Stage Lighting I (3)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91321 Theatre History I (3)
- 91322 Theatre History II (3)
- 91323 World Drama I (3)
- 91324 World Drama II (3)

Concentration Requirements18 credits

Supportive Requirement3 credits

In addition to the above listed core courses, students must complete a 9 credit requirement in a selected concentration (Design/Technical or Performance) AND an additional 9 credits of electives in that concentration. The additional 3 credit supportive requirement must be earned by completing an elective in the other area.

Performance Concentration Requirement9 credits

- 91303 Voice for Theatre I (3)
- OR
- 91334 Speech for the Stage (3)
- 91332 Acting II (3)

- 91337 Physical Technique for the Actor (3)
- OR
- 91339 Jazz I for Actors (3)

Design/Technical Concentration Requirement . . .9 credits

- 91352 Stage Lighting II (3)
- 91354 Costume Design I (3)
- 91414 Stagecraft II (3)

Theatre Electives: Performance = P;

Design/Technical =DT

* Advanced Training Courses * = entrance by audition/interview

- 91211 Rehearsal and Production (1) P/DT
 - 91212 Rehearsal and Production (2) P/DT
 - 91213 Rehearsal and Production (3) P/DT
 - 91295 Independent Study in TA (3) P/DT
 - 91301 Voice for Theatre I (3) P
 - 91302 Voice for Theatre II (3) P
 - 91305 Musical Theatre Workshop I (3) P*
 - 91306 Musical Theatre Workshop II (3) P*
 - 91310 Live Theatre Experience (3) P/DT
 - 91325 Playmaking (3) P
 - 91332 Acting II (3) P
 - 91333 Acting III (3) P*
 - 91334 Speech for the Stage (3) P
 - 91335 Stage Makeup I (3) P/DT
 - 91336 Stage Makeup II (3) P/DT*
 - 91337 Physical Technique for Actors (3) P
 - 91338 Tap Dance I (3) P
 - 91339 Jazz I (3) P
 - 91341 Dialects for the Stage (3) P*
 - 91342 Stage Management (3) DT
 - 91343 Scene Painting (3) DT*
 - 91345 Jazz II (3) P*
 - 91346 Tap Dance II (3) P*
 - 91347 Choreography for Musical Theatre (3) P*
 - 91351 Costume Construction I (3) DT
 - 91352 Stage Lighting II (3) DT
 - 91353 Scene Design I (3) DT
 - 91354 Costume Design I (3) DT
 - 91362 Improvisation and Performance (3) P
 - 91363 Scene Study (3) P*
 - 91371 Text Analysis for the Actor (3) P*
 - 91411 Rehearsal and Production (1) P/DT
 - 91412 Rehearsal and Production (2) P/DT
 - 91413 Rehearsal and Production (3) P/DT
 - 91414 Stagecraft II (3) DT
 - 91420 American Musical Theatre (3) P
 - 91424 Contemporary Theatre (3) P/DT
 - 91425 Multiculturalism and Theatre (3) P/DT
 - 91432 Acting IV (3) P*
 - 91441 Directing I (3) P/DT
 - 91442 Directing II (3) P*
 - 91451 Costume III (3) DT*
 - 91453 Scene Design II (3) DT*
 - 91454 Stage Lighting III (3) DT*
 - 91455 Stagecraft III (3) DT*
 - 91456 Costume Design II (3) DT*
 - 91492 Fieldwork in Professional Theatre (3) DT*
 - 91494 Fieldwork in Theatre (3-15) P/DT*
 - 91495 Independent Study in TA (2-4) P/DT*
 - 91594 Fieldwork in TA (3-15) P/DT*
 - 91293, 91393, 91493 Selected Topics (1-3) P/DT*
- Some of the titles recently offered as Selected Topics:
Mind and Movement (2)

- Making Dance (3)
- Stage Combat (2)
- Mask and Mime (2)
- Lighting Design I (3)
- Movement in Asian Theatre (2)
- Russian Ballet Technique (3)

Major

Scenography

Bachelor of Fine Arts
70 credits

Required core courses for Scenography52 credits

- 09100 Freshman Drawing I (3)
- 09101 Freshman Drawing II (3)
- 91231 Acting I (3)
- 91252 Stagecraft I (3)
- 91253 Costume Construction I (3)
- 91254 Stage Lighting I (3)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91301 Theatre Arts Participation (1)
- 91321 Theatre History I (3)
- 91322 Theatre History II (3)
- 91323 World Drama I (3)
- 91324 World Drama II (3)
- 91351 Costume Construction II (3)
- 91352 Stage Lighting II (3)
- 91353 Scene Design I (3)
- 91354 Costume Design I (3)
- 91414 Stagecraft II (3)
- 91490 Senior Project T.A. (3)

Art History component6 credits

- Two courses to be selected by advisement.
- 11201 Art History I (3)
 - 11202 Art History II (3)

Theatre Electives12 credits

- Any four of the following courses to be selected by advisement.
- 91251 Theatre I (3)
 - 91335 Stage Makeup I (3)
 - 91336 Stage Makeup II (3)
 - 91451 Costume Construction III (3)
 - 91453 Scene Design II (3)
 - 91454 Stage Lighting III (3)
 - 91455 Stagecraft III (3)
 - 91456 Costume Design II (3)

Minor

Theatre Arts

24 credits

Required courses15 credits

- 91330 Introduction to Theatre (3)
- Any two of the following:
- 91252 Stagecraft I (3)
 - 91253 Costume Construction I (3)
 - 91254 Stage Lighting I (3)
- Any two of the following:
- 91321 Theatre History I (3)
 - 91322 Theatre History II (3)

- 91323 World Drama I (3)
91324 World Drama II (3)

Electives 9 credits

The remaining 9 credits must be selected from existing Theatre courses and/or Departmental Selected Topics, in consultation with the student's advisor. Students should attempt to find a specific theatre focus within the electives category.

Liberal Arts Designation

The following courses count toward the liberal arts requirement:

- 91211, 91212, 91213, 91252, 91254, 91310, 91321, 91322, 91323, 91324, 91325, 91330, 91334, 91338, 91339, 91341, 91342, 91353, 91354, 91362, 91363, 91411, 91412, 91413, 91420, 91425, 91441, 91442, 91453, 91456, 91490, 91595.

Undergraduate Courses

In addition to the following, Selected Topics, Fieldwork, Independent Study and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

91211 Rehearsal and Production (1)

This course is designed to give the students a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation. Prerequisite: PC.

91212 Rehearsal and Production (2)

This course is designed to give the students a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation. Prerequisite: PC.

91213 Rehearsal and Production (3)

This course is designed to give the students a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation. Prerequisite: PC.

91231 Acting I (3)

Practical exploration of the art and craft of acting, with emphasis on the body, voice and the actor's imagination. Prerequisite: Majors only with PI.

91251 Theatre I (3)

The craftsmanship of the playwright, the director, the actor, the designers, the technicians, depends on an idea of what theatrical art is and how it works. This course explores theatrical ideas as a preparation for imaginative and creative work in the theatre, and culminates in a small production. Prerequisite: Theatre major or PI.

91252 Stagecraft I (3)

Introduction to the theory and practice of scenic construction and mechanics of stagecraft. Practical application in theatre productions.

91253 Costume Construction I (3)

An introduction to the costume shop, its equipment and its use. Projects to develop basic skills and techniques used in costume construction. Prerequisite: Theatre major or PI.

91254 Stage Lighting I (3)

An introduction to the electrical theory and practical application of stage lighting equipment. Use and practice with

stage lighting equipment in a shop environment, and on productions by the Theatre Department.

91301 Theatre Arts Participation (1)

Advanced participation in theatre activities; supervised laboratory experiences in the areas of design, technical theatre, management, acting, directing. Prerequisites: 91252, 91253, 91254 or PC.

91303 Voice for Theatre I (3)

A basic course designed to help the singing actor improve vocal techniques used in musical theatre. Exercises are chosen to develop tone, breath, diction, resonance, projection, and dramatic expression. Theatre music style will be studied by selecting songs from the 1890's to the 1940's. Students will prepare and perform assigned pieces for class critique and evaluation. Prerequisite: Theatre major or PI.

91304 Voice for Theatre II (3)

Continuation of 91303. The same format of exercises and class presentations will be used. Theatre music style will be studied by selecting songs from the 1950's to the 1990's. Prerequisite: 91303, 66205, Theatre major or PI.

91305 Musical Theatre Workshop I (3)

Development of fundamental skills necessary for performing in musical theater. Focus will be on individual vocal performance of classical musical theater material, supplemented by movement and scene work, and the development of a portfolio of songs for each student. Chronological study of classic and contemporary composers. Prerequisite: 91303 or PI.

91306 Musical Theatre Workshop II (3)

Continuation of 91305 with an emphasis on ensemble performance. Students will perform selected vocal and dance ensemble pieces (duets, trios, quartets, etc.) with other members of the class; exercises, games, and improvisation which deal with problems of blocking, choreography, vocal techniques, timing, and rhythm. An ensemble piece may result, depending on class enrollment. Prerequisite: 91305 or PI.

91310 Live Theatre Experience (3)

Students witness New York City theatre productions and New Paltz productions. Through lectures, discussions, and written assignments, the course examines the appeal and ingredients of live theatrical presentations. Focus will be on plays rather than on opera and dance. Prerequisite: PI and fee for tickets and transportation.

91321 Theatre History I (3)

Historic survey of the theories and techniques of staging and performing plays from ancient Greece to 1650.

91322 Theatre History II (3)

Continuation of 91321. From 1650 to 1915.

91323 World Drama I (3)

A survey of drama from the Greeks through the Romantic period. Examination of classical dramatic literature and its relevance in modern theatre. Prerequisite: Two freshman English courses.

91324 World Drama II (3)

A survey of plays and playwrights from Henrik Ibsen and the introduction of Realism through movements of the twentieth century to the present day. Examination of dramatic literature as the basis for making theatre. Prerequisite: Two freshman English courses.

91325 Playmaking (3)

An exploration, through lectures, improvisation and exercises, of the process of creating structured performance vehicles for the theatre. Various methods of playmaking will be examined. Prerequisite: 91324 or PI.

91330 Introduction to Theatre (3)

This team-taught course introduces the structure of drama, paying particular attention to the audience's point of view. Also introduced and discussed are the duties and responsibilities of the various members of a production team.

91332 Acting II (3)

Continuation of 91231. Understanding of the basic craft of acting through fundamental technique based on methods of Stanislavski and Meisner. Attention to rehearsal process as applied to scene work in realism. Prerequisite: 91231 and PI. May be repeated for credit.

91333 Acting III (3)

Continuation of 91332. Preparation of students who wish to enter the theatre as actors. The class functions as a diagnostic of the actor's strengths and problems, and expands the range of the actor's work to include various classical styles with emphasis on Shakespeare. Prerequisite: 91332 and PI.

91334 Speech for the Stage (3)

Positive conditioning and heightened perception of the entire body as the actor's vocal instrument. Developing a clear understanding of the mechanics of strong, effective voice and speech for the stage, using Linklater, Lessac, and Berry techniques. Prerequisite: 91231 or PI.

91335 Stage Makeup I (3)

Studio course in the fundamentals of stage makeup. Prerequisite: 91231 (may be taken concurrently).

91336 Stage Makeup II (3)

An advanced course in stage makeup. It will provide the actor with other alternatives to makeup problems than usually achieved by painting with grease paint. The course will deal with three-dimensional makeup, latex prosthesis, hair and wigs. Prerequisite: 91335 and PI.

91337 Physical Technique for Actors (3)

An introduction to specific movement and performance skills such as broadsword, ballet, jazz, and tap dance.

91338 Tap Dance I (3)

A series of technical basics developed to orient the student to the foundation of tap dance and the progression of sounds that constitute the art of the discipline. Prerequisite: 91337 (may be taken concurrently) or PI.

91339 Jazz I (3)

A series of technical experiences in the jazz form of dance. Prerequisite: 91337 or concurrent enrollment or PI.

91341 Dialects for the Stage (3)

Exploration and study of foreign dialects for use in stage productions. Initial emphasis on mastery of International Phonetic Alphabet for dialect transcription. Presentation/performance of scripted material using selected dialects. Prerequisite: 91334 or PI.

91342 Stage Management (3)

A study of organizational methods and working procedures currently in use by professional stage managers in both dance

and theatre production. Designed for both the performer who wishes to better comprehend the role and function of the stage manager, and for those considering a career in the field. This course will involve practical as well as theoretical work. Prerequisite: 91301 or PI.

91343 Scene Painting (3)

A series of workshop sessions in lining, panelling, trompe l'oeil, and landscape painting to acquaint the student with the art of scene painting. Emphasis will be on the sensible use of materials and equipment and on procedures that employ time and talent efficiently.

91345 Jazz Dance II (3)

Introduction to styles of modern jazz dance and techniques developed by choreographers in the 20th century for use in musicals, television and films. Prerequisite: 91339 or PI.

91346 Tap Dance II (3)

A series of technique experiences in tap dance designed for the development of a high level of performance skill. Prerequisite: 91338 or PI.

91347 Choreography for Musical Theatre (3)

Participation in the creation and rehearsal of choreographed movement specifically designed for a musical theatre production, culminating in public performances. Prerequisite: Casting in the Spring Musical and PI.

91351 Costume Construction II (3)

Techniques in dyeing, painting and surface decoration of fabric, use of foam and other non-woven materials and millinery. Prerequisite: 91253 or PI.

91352 Stage Lighting II (3)

An expansion of the theories, principles and practices presented in Stage Lighting I. The use and handling of stage lighting equipment and its control, with some emphasis on basic lighting design and its graphic representations. Prerequisite: 91254 or PI.

91353 Scene Design I (3)

Introduction to the art of scene design. Assigned reading and criticism of weekly sketch problems, including the ground plan and the designer's sketch. Prerequisite: 91252 or PI.

91354 Costume Design I (3)

History of civil costume and the techniques and practice of theatrical costume design leading to the preparation of designs for productions. Prerequisite: 91253 or PI.

91362 Improvisation and Performance (3)

Exploration of the theory and practice of improvisation as a performance form in the tradition of Chicago's Second City. Development of specialized skills, with emphasis on imagination, spontaneity, teamwork, and on-the-spot creativity. Prerequisite: PI.

91363 Scene Study (3)

Continuation and refinement of technique begun in Acting II, with intensified application of technique to selected scene material. Content includes understanding demands of text and meeting challenges of different dramatic material. Special attention to scoring the scene. Prerequisite: 91332 and PI.

91371 Text Analysis for the Actor (3)

The course seeks to identify the clues a playwright provides on the page to help the actor fully express the written word.

Beginning with Shakespearean verse scansion and progressing to contemporary texts, punctuation, syntax, imagery and tone are explored; selections are orally presented. Prerequisite: 91332 and PI.

91411 Rehearsal and Production (1)

This course is designed to give the student a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation. Prerequisite: PC.

91412 Rehearsal and Production (2)

This course is designed to give the student a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation. Prerequisite: PC.

91413 Rehearsal and Production (3)

This course is designed to give the student a means of earning liberal arts credit for research, execution and evaluation of work directly related to the process of preparing a production for public presentation. Prerequisite: PC.

91414 Stagecraft II (3)

Advanced stagecraft dealing primarily with drafting for the theatre. Practical exercises in drafting, scenic construction and planning. Prerequisite: 91252 or PI.

91420 American Musical Theatre (3)

A study of the origins and development of the American musical theatre from FLORA in 1735 to the most recent openings on Broadway. An analysis of the American musical theatre as a unique contribution to the art of theatre.

91425 Multiculturalism and Theater (3)

A study of that segment of the American theatre that reflects the lives of minority groups in our pluralistic culture. Major focus on three groups: African-American, women, and gay/lesbian with some consideration of Latino and Asian. As a result of the political and cultural movements of the last thirty years, strong minority identities have evolved in our society. The artistic expressions of these groups have had an important impact upon traditional mainstream theatre. Exploration through reading, viewing, lecture, and discussion. Prerequisite: Two freshmen English courses.

91432 Acting IV (3)

Advanced phase of the acting program for those students who have chosen to enter the theatre as actors. Extends the actor's work in character and play analysis, and in preparation of audition materials, resume, pictures, approaching agents, Actor's Equity, etc. Prerequisite: 91333 or PI.

91441 Directing I (3)

The director's analysis of a script, the use of space as environment, the elements of composition and movement, emotional key and tempo, casting, rehearsal techniques, and the director's relationship to the other artists of the theatre. Prerequisite: 91231 or PI.

91442 Directing II (3)

Continuation of 91441 with emphasis upon interpretation, theatrical styles, and the director-actor relationship. Each student's class activities culminate in the preparation, rehearsal, and presentation of a one-act play. Prerequisite: 91441 or PI.

91451 Costume III (3)

Advanced study of the patterns and construction methods used during the major periods in costume history and their adaptation for theatrical costume construction. Prerequisite: 91351 or PI.

91453 Scene Design II (3)

A continuation of 91353. Provide the student with a practical approach to the art of scenography and an understanding of the historical precedents of scene design and their relationship to theatrical design in contemporary theatre. Prerequisite: 91353 or PI.

91454 Stage Lighting III (3)

Advanced study of stagelighting design, its theory and practical application. Prerequisite: 91352 or PI.

91455 Stagecraft III (3)

Advanced study of technical problems in scenic construction, with an additional emphasis on advanced use of materials and techniques. Prerequisite: 91414 or PI.

91456 Costume Design 2 (3)

Selected problems in costume design exploring various styles of production, the use of different types of color media, and the principles and elements of design. Prerequisite: 91354 or PI.

91490 Senior Project in Theatre (3)

Advanced work on an individual basis, awarded to a theatre major, subject to approval of instructor. Prerequisite: PI.

91492 Fieldwork in Professional Theatre (3)

The course is offered to theatre students recommended into the internship program created by an agreement between The College and Middletown Union Local 311 of the International Alliance of Theatrical Stage Employees (I.A.T.S.E.). Successful completion of this course allows students to make application for membership into the Union. Prerequisites: 91252, 91253, 91254, 91352, 91414, or PI.

Liberal Arts and Sciences

Gerald Benjamin, Interim Dean

Allyn Bregman, Associate Dean; Richard Varbero, Associate Dean

Anthropology

Professor:

Karin Andriolo, Ph.D., Vienna

Associate Professors:

Giselle Hendel-Sebestyen, Ph.D., Columbia

Benjamin E. Pierce, (Chair), Ph.D., Tulane

Lecturer:

Joseph Diamond, M.A., New York University

The Department of Anthropology offers a liberal arts major, a liberal arts minor, Pre-K-6 (elementary education) major with concentration in anthropology, and a double major in anthropology and secondary education.

Courses in the Department of Anthropology deal with three areas. Physical anthropology is concerned with the evolution of human beings as biological organisms and with the physical variation within contemporary human populations. Archaeology and prehistory explore the extinct cultures of the past and attempt to elucidate the processes involved in their development. Sociocultural anthropology is involved with the comparative analysis of socially learned behavior patterns and institutions of contemporary populations from all areas of the world.

Archaeology Field School

The department offers a summer program that affords students with the opportunity to participate in an actual archaeological excavation. Emphasis is placed on excavation techniques, methods of classification and analysis, and anthropological interpretation. At present, efforts are concentrated on Paleo-Indian Archaic, Woodland and historic contact sites in the mid-Hudson region of New York.

Major

Anthropology

36 credits

Required courses18 credits

07211 General Anthropology (3)
 07213 Introduction to Archaeology (3)
 07214 Cultural Anthropology (3)
 07301 Human Evolution (3)
 07400 Development of Anthropological Thought (3)
 07401 Comparative Social Organization (3)

Electives18 credits

Each major candidate is required to complete, by advisement, 6 additional courses, at least 3 of which shall be theoretical or topical courses at the 400 level or above; and two of the 5 courses shall be from two different geographic areas.

Majors are encouraged to go beyond the 36-hour program in order to develop greater concentrations in the particular subfields of anthropology. In addition to taking more courses

within the anthropology curriculum, they are encouraged to study in the related fields:

Social-cultural emphasis—courses in psychology, sociology, history, geography, and linguistics.

Archaeology emphasis—courses in geology, geography.

Physical anthropology emphasis—courses in biology.

Minor

Anthropology

18 credits

Required courses12 credits

One of the following:

07211 General Anthropology (3)
 07214 Cultural Anthropology (3)

One of the following:

07213 Introduction to Archaeology (3)
 07301 Human Evolution (3)

Plus:

Another 300-level course (3)
 One 400-level course (or above) (3)

Electives6 credits

Two courses at any level.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the courses listed below, the Department of Anthropology has developed a number of selected topics courses on the 200, 300 and 400 level which meet major and minor requirements. Students are advised to look at the Schedule of Classes for recently introduced courses.

07101 The Modern World (4)

A survey of the expansion of Europe, the development of the modern capitalist world system and challenges to it, cultural and material interchanges among the major world civilizations, the formation of industrial-urban societies, and the political and ideological foundations of present world civilization.

07211 General Anthropology (3)

Introduction to the theories, methods, and major areas of anthropology.

07213 Introduction to Archaeology (3)

Method and theory of archaeology as a branch of anthropology; survey of major archaeological discoveries and sequences of world prehistory.

07214 Cultural Anthropology (3)

Principal concepts, data, and generalizations about the behavior systems of human groups with emphasis on non-Western cultures.

07240 Field Archaeology (3)

Practical exposure to the study of archaeology. Field methods; techniques of data recovery in the field and analysis of archaeological materials in the laboratory. Lab practice; fieldwork on Saturdays for half of the semester in the New Paltz area.

07301 Human Evolution (3)

The modern synthetic theory of evolution. The origin and development of life. The rise of our non-human ancestors; fossil man; the concept of race and the fallacy of racism.

07303 Indians of North America (3)

Survey of cultures north of Mexico; description and analysis of institutional changes resulting from Indian and non-Indian contacts; role of anthropological theories in the selection of research problems and analysis of North American Indian cultures.

07304 Ancient Mesoamerica (3)

Survey of the cultural development in Ancient Mesoamerica prior to the Spanish conquest, with particular focus upon the Maya and Aztecs.

07308 Caribbean Ethnography (3)

A survey of important aspects of culture and social organization of various Caribbean populations from historical and contemporary perspectives.

07312 North American Archaeology (3)

An archaeological survey of early man in North America.

07314 New York State Archaeology (3)

Major prehistoric developments in New York State; evolution of the resident aboriginal cultures from the post-Pleistocene appearance of the Paleo-Indians through late Woodland (Iroquois) times.

07315 Historical Archaeology (3)

The purpose of this course is to provide a working knowledge of American historical archaeology from both a practical and theoretical perspective. Subject areas covered include archeological excavation methods and strategies, artifact analysis, current research and theory, and how historical archeology can answer questions about past human behavior. Prerequisite: One course in anthropology recommended.

07361 Exploring the Unknown (3)

An exploration of the great mysteries which have captured the popular imagination. A rational evaluation of the facts and hypotheses that surround such mysteries as Bigfoot, the Loch Ness Monster, UFOs, the ancient astronauts of von Daniken, the Bermuda Triangle, the legends of Atlantis and Mu, and the construction of the Egyptian pyramids. A research paper is required.

07362 Race, Ethnicity and Inequality (3)

Investigation of the nature of the system of racial and ethnic classification that prevails in the contemporary United States and of the socio-historical processes that have generated this cultural taxonomy. Exploration of the impact of our ideas and understandings about racial and ethnic differences on selected aspects of U.S. social life.

07378 Cultures of India (3)

The culture of the Indian subcontinent in terms of population, languages, social institutions, and cultural patterns; changing cultural patterns.

07379 Cultures of the Middle East (3)

Survey from the anthropological perspective of the major socio-cultural dimensions of the cultures of Southwest Asia and parts of North Africa; nature of Islamic values in relationship to social structure.

07380 Cultures of Africa (3)

Introduction to social and cultural institutions of sub-Saharan Africa. Emphasis on traditional society but consideration given to social change.

07383 Culture of China (3)

An introduction to the culture and society of China including an exploration of traditional Chinese village life. The restructuring of society and culture in post-revolutionary times is examined in relationship to continuity and change with the past.

07400 Development of Anthropological Thought (3)

Examination of the major theoretical positions in contemporary anthropology, and of their development in the broader context of the history of ideas. Prerequisite: One course in anthropology or PI.

07401 Comparative Social Organization (3)

A review of basic principles of kinship organization and an examination of major theories of kinship. A consideration of important dimensions of extra-familial social organization. Prerequisite: One course in anthropology or PI.

07403 Religion and Culture (3)

Religion and its relationships to culture in different societies. Systems of belief and their translation into ritual and behavior. The role of religion in the value systems of different societies. Prerequisite: One course in anthropology or PI.

07405 Theories of Culture Change (3)

Current theories of culture change and social evolution and an evaluation of some of the problems provoked by situations of rapid social change, especially in the developing countries. Prerequisite: One course in anthropology or PI.

07408 Cultural Resource Management (3)

A practical introduction to the field of cultural resource management. The history and philosophy of cultural resource conservation. Cultural resources and the law; sampling and survey techniques and the preparation of environmental impact statements. Prerequisite: One course in anthropology or PI.

07409 Psychological Anthropology (3)

Principal aspects of the influence of culture on personality. Anthropological investigation of normal and abnormal behavior in diverse cultural contexts; the development and place of the individual in pre-industrial and modern societies. Prerequisite: One course in anthropology or PI.

07410 Applied Anthropology (3)

Applied anthropology attempts to solve human problems and to facilitate change by drawing upon the knowledge about the culture or subculture for which these solutions and innovations are to be designed. Discussed are agricultural,

social, educational and health programs that were conducted in the United States and in other countries, ethical and legal issues, and the organization of work. Prerequisite: 07214 or PI.

07411 World Peasantry (3)

The nature of peasantry as a social and community type explored through existent theory and detailed ethnographic materials from diverse areas of the world. Prerequisite: One course in anthropology or PI.

07412 Problems of the Third World (3)

Historical review of the factors that led to the economic disparity that exists between what is called the Developed World and the Third World. Consideration of internal and external factors hindering or promoting development. Prerequisite: One course in anthropology or PI.

07413 Urban Anthropology (3)

Issues of urban living and development from an anthropological point of view; cross-cultural comparisons of urban settings; relationship between cultural traditions and style of urbanization. Prerequisite: One course in anthropology or PI.

07421 Cross-Cultural Perspective on the Status of Women (3)

A study of the historical and contemporary position of women in society in a variety of cultures. A theoretical overview and presentations by guest lecturers.

07430 Suicide and Culture (3)

Description and analysis of attitudes towards suicide in various cultures. Understanding of each attitude within its cultural context. Transcultural generalizations about cognitive, social and political dimensions of attitudes.

07434 Archaeological Field School (9)

Archaeological excavation to train students in the practical application of archaeological theory and method. Prerequisite: PI.

07450 Medical Anthropology (3)

Social and cultural factors that affect variations in disease incidence, illness-related behavior, and therapeutic procedures; cross-cultural examination of differences and similarities among various medical traditions; consequences of contact in medical settings among individuals not sharing the same medical traditions and expectations; effect of disease on human evolution; problems of ethics in medicine as they relate to culturally diverse contexts. Prerequisite: One course in anthropology or PI.

07461 Seminar in Magic, Witchcraft and Sorcery (3)

Beliefs in magic and particularly in witchcraft are placed into general cosmological systems in their cultural contexts so that they are seen to have sociological and psychological functions. Prerequisites: One course in anthropology or PI.

07470 Ethnographic Fieldwork (3)

An examination of processes and problems involved in conducting qualitative ethnographic fieldwork, and a consideration of the feasibility of using traditional ethnographic research techniques to study U.S. culture. Each student will formulate and conduct a limited ethnographic field project in consultation with the instructor. Prerequisite: 07214 or PI.

07481 Transcultural Health (3)

Examination of aspects of culture that affect bio-physical and psychological health status, illness, and therapeutic behavior in diverse and multi-cultural settings. The application of anthropological research and methods to understanding and instituting change in medical systems. Designed for advanced level students without prior training in anthropology.

Graduate Courses

07501 Advanced Psychological Anthropology (3)

Principal aspects of the influence of culture on personality. Anthropological investigation of the development and place of the individual in pre-industrial and modern cultures. Prerequisite: Two 300- or 400-level anthropology courses.

07510 Advanced Urban Anthropology (3)

Issues of urban living and development from an anthropological point of view; cross-cultural comparisons of urban settings; relationship between cultural traditions and style of urbanization. Prerequisite: Two 300- or 400-level anthropology courses.

07520 Field Archaeology (3)

Practical exposure to the study of archaeology. Field methods; techniques of data recovery in the field and analysis of archaeological materials in the laboratory.

07534 Archaeological Field School (6)

Intensive field and laboratory instruction in excavation techniques, mapping and recording, artifact cataloging, analysis and curation, and the preparation and writing of archaeological reports. Prerequisite: PI.

NOTE: Students may take upper-division courses (400) that are offered in any semester, on a graduate level as independent study by doing additional research and academic work. Prerequisite: PI.

Asian Studies

Asian Studies offers both minor and contract major programs specifically designed to meet the career needs of individual students. Courses are available in the Chinese and Japanese languages, the anthropology of South and East Asia, the history of China and Japan, the art of Asia, the literatures of Japan and India, the politics of multi-national corporations and the Pacific Rim, the modern history of Vietnam, the philosophies of Asia, the film of China, and Chinese women.

An Asian Studies minor consists of at least one year of Chinese or Japanese language, and one course in the civilization of the language being studied. Additional courses to total 18 credits will be chosen in consultation with the Program Coordinator.

A contract major can be individually designed in consultation with the Program Coordinator and two additional faculty members in Asian Studies. The major typically consists of at least two years of the study of either the Chinese or Japanese language, two courses in the civilization of the language being studied, and additional courses selected in consultation with the contract major faculty committee. Students with proficiency in Chinese or Japanese, may select all courses in Asian Studies. The major would consist of at least 36 credits.

The faculty in Asian Studies includes: Elizabeth Brotherton (Art History), John Alphonso-Karkala (English), Marleigh Grayer Ryan (Japanese), Kristine Harris (History), Ronald Knapp (Geography), David Krikun (History), David Appelbaum (Philosophy), Alexander Young (Political Science).

Instruction is greatly augmented by a superb collection of books and periodicals on Asia in the Sojourner Truth Library, and by the resources of a newly-designed language laboratory.

The coordinator of Asian Studies is Marleigh Grayer Ryan, Professor of Japanese.

Astronomy

In recent years there has been a great increase in both interest and knowledge concerning the universe at large by both scientists and the general public. The space program has greatly enhanced the body of information about our sister planets of the solar system. The new radio and x-ray telescopes have made us aware of features of the universe that had not been suspected a mere ten years ago. The discoveries being made currently illustrate the wonder and beauty of science which in turn is but a dim reflection of the beauty of nature itself.

The astronomy program at New Paltz is designed to serve two groups. First, those interested in exploring the subject as part of their general education may take courses requiring no science or mathematics preparation beyond introductory algebra. These courses combine classroom lectures on a wide range of astronomical topics with planetarium demonstrations, observation of the sky using the College telescopes, the Smolen Observatory, and opportunities for those interested to explore the universe via computer simulation. The second group are those science majors who wish to develop a minor concentration in astronomy. With a year of calculus, general physics and chemistry as preparation a student may complete an astronomy minor.

Minor

Astronomy

37 credits

The astronomy minor will require science cognates, Astronomy 12301, and nine hours of upper-division electives relating to astronomy. The elective courses must be selected with the approval of the minor advisor in conjunction with the Physics Department chair.

Required courses28 credits

12301	Astronomy (4)
64251	Calculus I (4)
64252	Calculus II (4)
22201	General Chemistry I (4)
75201	General Physics I (4)
75202	General Physics II (4)
75309	Modern Physics (4)

Electives9 credits

Three astronomy-related courses at the 300 or 400 level selected under advisement. Particular courses related to astronomy include: astrophysics, atomic and nuclear physics, optics, quantum physics, relativity and thermodynamics.

Content of Minor

The minor appears to require 37 hours of courses. However, for students to do upper-division work in a technical subject such as astronomy they must have mathematics and basic chemistry and physics preparation. The student who would be attracted to this program would be a mathematics, chemistry, geology, or physics major. All of these students will have taken the year of calculus, the year of physics and perhaps the semester of chemistry. Thus the program will require a total of seventeen hours additional study for the minor.

Purpose of Minor

The minor will allow students to explore astronomy as an area of professional interest and possibly continue with graduate study in the field of astronomy. Astronomy is also an excellent example of the application of mathematics and physics to a series of interesting problems. Taught by a mathematical physicist the key course, Astronomy 12301, can serve as an upper-division elective.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

12201 Exploring the Solar System (3)

Introduction to solar system including history of astronomy, laws of mechanics and gravitation, motions of heavenly bodies, telescopes, space exploration and descriptions of sun, planets, moons, asteroids, comets and meteors. Planetarium demonstrations, sky viewing with telescopes and computer simulations. No science preparation required. Limited use of algebra. No prerequisite.

12202 Exploring the Universe (3)

Introduction to the universe beyond the solar system. Distance to stars, classes of stars, structure of stars, stellar evolution, white dwarfs, neutron stars, black holes, pulsars, quasars, radio astronomy, the Milky Way, galaxies, relativity and cosmology. Planetarium demonstrations, sky viewing with telescopes and computer simulation. No science preparation required. Limited use of algebra. No prerequisite.

12301 Astronomy (4)

Introduction for science majors. Spherical trigonometry, planetary motions, solar system, formation of stars, H-R diagram, binaries, brightness scale, distance ladder, Doppler effect, stellar masses, parallax, proper motion, radial motion, mass-luminosity, black-body radiation, spectroscopy, telescopes, dense stars, black holes, galaxies, relativity and cosmology. Prerequisite: 64252 or 75202.

Biology

Professors:

Allyn Bregman, Ph.D., Rochester
 Hon Hing Ho (Chair), Ph.D., Western Ontario
 Heinz Meng, Ph.D., Cornell
 Denis Moran, Ph.D., New York University
 B.L. Redmond, Ph.D., Cornell

Associate Professors:

Arnold Nemerofsky, M.S., Rochester
 Carol Rietsma, Ph.D., Rutgers
 Philip Stein, Ph.D., Geneva

Assistant Professor:

Maureen Morrow, Ph.D., Columbia

The Department of Biology at the State University of New York at New Paltz provides a strong foundation in the biological sciences with great breadth in course offerings. Students with career interests in research, teaching, or the health professions will find an appropriate plan of study to meet their professional goals.

The New Paltz Department of Biology focuses on the undergraduate students. Introductory courses allow for individual attention in small recitation and lab sections taught by faculty members. The small class size of upper-division courses encourages close interaction with faculty and other students.

There are two tracks within the liberal arts biology curriculum: (1) Organismal and Environmental Biology and (2) Cell/Molecular Biology and Biotechnology. In each track there is a requirement for a year of General Biology and for the appropriate chemistry, physics, and math courses. Although the tracks differ in their course requirements, all lead to the B.S. or B.A. degree in biology. However, most medical, dental, and veterinary schools require one year of General Biology (with lab), two years of chemistry through organic chemistry (with lab), one year of physics (with lab), one year of math, and one year of English. Biochemistry is suggested for medical schools. Most graduate schools require two years of chemistry through organic chemistry (with lab), one year of physics (with lab), calculus, statistics, and reading knowledge of a foreign language. For graduate study in cell or molecular biology, a full year of biochemistry is recommended.

The biology program places great value on the quality of the learning experience; classes are small and lab courses offer hands-on training in valuable research methods. These include transmission and scanning electron microscopy, electrophoresis of protein and DNA, restriction mapping, microbiological techniques, identification of plant pathogens, and much more. Our location also provides exceptional opportunity for investigations in ecology, ornithology and field biology.

Majors

Organismal and Environmental Biology

64-70 credits

Students in the Organismal and Environmental Biology track are required to take in addition to General Biology I and II, five core courses (Genetics, Ecology, Plant Morphology or Comparative Vertebrate Anatomy, General Microbiology and General Physiology) and three biology electives.

Required biology courses36-41 credits

15201 General Biology I (4)*
 15202 General Biology II (4)*
 15320 Genetics (4)
 15340 Ecology (4)
 15350 General Microbiology (4)
 15413 General Physiology (3)**

One of the following:

15305 Plant Morphology (4)
 15307 Comparative Vertebrate Anatomy (5)

Biology electives9-13 credits

Each major candidate is required to complete 3 upper-division courses in biology, with at least one at the 400 level or above.

Required cognate courses27-29 credits***

22201 General Chemistry I (4)
 22202 General Chemistry II (4)
 22305 Organic Chemistry I Lecture (3)
 22306 Organic Chemistry I Lab (2)
 64241 Introduction to Statistics (3)
 64245 Basic Calculus (4)

OR

64251 Calculus (4)
 75221 Fundamental Physics I (4)

OR

75201 General Physics I (4)

AND

Either Organic Chemistry II lecture with lab or Biological Chemistry:

22308 Organic Chemistry II Lecture (3)
 22309 Organic Chemistry II Lab (2)

OR

15318 Biological Chemistry (3)

Cell/Molecular Biology and Biotechnology

65-73 credits

Students in the Cell/Molecular Biology/Biotechnology track are required to take in addition to General Biology I and II, five core courses (Genetics, General Microbiology, Developmental Plant Anatomy or Developmental Biology, Molecular Biology and Cell Biology) and four biology electives. Two electives are selected from among various lab-intensive courses (Transmission or Cell Ultrastructure, Scanning Electron Microscopy, Molecular Biology Lab or Biotechnology Lab, Microbial Genetics, Immunology, Cytogenetics and Plant Pathology).

Required biology courses38-44 credits

15201 General Biology I (4)*
 15202 General Biology II (4)*
 15320 Genetics (4)
 15325 Principles of Cell Biology (3)

OR

15506 Cell Biology (4)
 15350 General Microbiology (4)
 15516 Molecular Biology (3)

One of the following:

15311 Developmental Plant Anatomy (4)
 15313 Developmental Biology (4)

Biology electives12-17 credits

Each student is required to take 4 upper-division biology electives, including at least 2 of the following:

15422 Principles of Microbial Genetics (3)

OR

15515 Microbial Genetics (4)

15426	Cell Ultrastructure (4)
OR	
15505	Transmission Electron Microscopy (4)
15507	Cytogenetics (4)
15508	Scanning Electron Microscopy (4)
15514	Plant Pathology (4)
15517	Molecular Biology Lab (3)
OR	
22572	Biotechnology Lab (3)
15540	Immunology (3)

Required cognate courses27-29 credits***

22201	General Chemistry I (4)
22202	General Chemistry II (4)
22305	Organic Chemistry I Lecture (3)
22306	Organic Chemistry I Lab (2)
64241	Introduction to Statistics (3)
64245	Basic Calculus (4)
OR	
64251	Calculus I (4)
75201	General Physics I (4)
OR	
75221	Fundamental Physics I (4)
AND	
<i>Either Organic Chemistry II lecture with lab or Biological Chemistry:</i>	
22308	Organic Chemistry II Lecture (3)
22309	Organic Chemistry II Lab (2)
OR	
15318	Biological Chemistry (3)

* Should be completed in freshman year, in the sequence indicated.

** 15415 (General Physiology Lab) is strongly recommended to complement the lecture course, 15413.

*** Should be completed prior to senior year.

Minor

Biology

Minimum of 18 credits

Required courses8 credits

15201	General Biology I (4)*
15202	General Biology II (4)*

A minimum of 10 upper-division credits

chosen by advisement10 credits

The college also offers an Interdisciplinary minor in Environmental Science. See index.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

15111 Introduction to Animal Life (3)

A survey of the animal phyla including the study of structure, metamorphosis, adaptations, and behavior. The development of the students' sensitivity and awareness of what can be learned from careful observations in natural field situations will be emphasized. Designed for non-science majors; does not count toward biology major.

15112 Biology Today (3)

The course will start with a cellular approach to living things and then proceed to organization of cells in multicellular organisms. A consideration of how structure relates to function in plant and animal tissues will follow. Designed for non-science majors; does not count toward biology major.

15115 An Introduction to Plant Life (3)

Introduction to the form and function of plants. The student should acquire an appreciation for plants as living organisms in a biological world, and their economic importance to human beings. Designed for non-science majors; does not count toward biology major.

15116 Biological World (4)

Organization, function, evolution, continuity, interaction and the diversity of life. How plants and animals relate to each other, to their non-living environment and to man. Designed for non-science majors; does not count toward biology major.

15170 Human Biology (3)

A survey in several phases of human biology. Normal life processes will first be explored followed by the alteration and relationship of alterations to life styles. Subject matter will include human physiology, genetics, evolution and behavior. Designed for non-science majors; does not count toward biology major.

15201 General Biology I (4)

An introduction to modern biology: molecular and cellular organization of living systems, energy transformations and metabolism, the principles of classical and molecular genetics, and the basic embryological changes during the development of an organism.

15202 General Biology II (4)

An introduction to modern biology: diversity of life forms, the process of evolution, and the interactions of organisms with their environment and with each other.

15210 Introductory Biology (4)

A one-semester lecture/laboratory general biology course covering most topics discussed in General Biology I and II and serving the same prerequisite role for electives within the Biology Department. Introductory Biology is designed for part-time and transfer students contemplating a major in biology and for students in other disciplines where a foundation in basic biological principles would be helpful. For prospective biology majors to enroll, they must be part-time or transfer students. This course is not open to students who have completed 15201 or 15202.

15301 Field Biology (3)

Diversity in the plant and animal kingdom; sound scientific methods of observation; interrelationships of organisms to each other and to their environment. Importance of the flora and fauna in our economic and cultural life and the need for conservation practices. Field trips are devoted to the study of several ecological units during fall. Identifications of the common plants and animals and the ability to interpret the signs, sounds, and behavior patterns or organisms.

15302 Field Biology (3)

Same general pattern as 15301, but concerns winter and spring phenomena in nature.

15303 Field Biology (3)

Same general pattern as 15301, 15302, but concerns organisms available only during the summer as well as the summer stages

in development of plants and animals found during other seasons.

15305 Plant Morphology (4)

Comparative study of life histories, morphology, and phylogenetic relationships of the major plant groups. Prerequisite: 15201 and 15202, or PI.

15307 Comparative Vertebrate Anatomy (5)

Gross anatomy and functions of systems of representative vertebrates. Skeletal, muscular, circulatory, digestive, respiratory, excretory, reproductive, nerve, and endocrine systems. Dissection is required. Prerequisite: 15201 and 15202, or PI.

15311 Developmental Plant Anatomy (4)

Developmental phenomena and anatomical characteristics of plant cells, tissues, and organs. Prerequisite: 15201 and 15202 or PI.

15312 Invertebrate Zoology (4)

Morphology, reproduction, behavior, physiology, geographical distribution, evolution, and economic importance of the main invertebrate phyla.

15313 Developmental Biology (4)

Structural development of an organism from a fertilized egg to the differentiation of organs. Lectures also include regeneration, aging, and cancer. Laboratory work devoted mainly to embryology of the chick. Prerequisite: 15201 and 15202, or PI.

15315 Vertebrate Zoology (4)

Morphology, reproduction, behavior, physiology, geographical distribution, evolution, and economic importance of the vertebrate classes. Field and laboratory work devoted to methods of studying and identifying local species.

15318 Biological Chemistry (3)

Study of the chemistry of biologically significant compounds; enzymes and metabolic reactions involved in energy transformations. Prerequisite: 15201, 15202, and 22305.

15320 Genetics (4)

A study of the principles of heredity from classical experiments with *Drosophila* to current research in molecular genetics utilizing recombinant DNA and gene cloning methodologies. The organization, function, and behavior of the genetic material are discussed on the molecular, chromosomal and population levels. The laboratory examines the genetic systems of a variety of organisms. Prerequisite: 15201 and 15202, or PI.

15325 Principles of Cell Biology (3)

An introduction to the structure and function of cells and their organelles. Prerequisite: 15201, 15202, and 22305, or PI.

15335 Entomology (3)

Study of insects; their origin, evolution morphology, classification, distribution habits, ecology, and economic importance. Field and laboratory work devoted to methods of collecting, mounting, preserving, and identifying local species.

15340 Ecology (4)

A study of principles and concepts of ecology at the ecosystem, community, population, and organism levels of organization. Laboratory and fieldwork emphasize methods of acquiring, analyzing, and interpreting ecological data. Prerequisite: 15201 and 15202, or PI.

15350 General Microbiology (4)

Morphological, biochemical, physiological, and genetic aspects of microbial growth, especially bacteria. Bacterial classification, growth control, and roles in environment and health also considered. Laboratory teaches essential techniques. Prerequisite: 15201 and 15202, or PI.

15381 Introduction to Ornithology (3)

Knowledge of birds: their evolution, structure, habits, songs, ecology, and economic importance. Laboratory periods devoted to bird anatomy, life history studies, method of preparing study skins, bird photography, and identification of local species.

15412 Evolutionary Theory (3)

Correlation and integration of previous courses around the theme of evolution. Development of philosophy of science. Prerequisite: 15201 and 15202, or PI.

15413 General Physiology (3)

A lecture course in organ system physiology, encompassing cardio-vascular, respiratory, renal, digestive, nervous system. A separate laboratory course, with animal dissection and use of human subjects can be taken in conjunction with this course. Prerequisite: 15201, 15202, 22201 and 22202, or PI.

15414 Experimental Biology (2-4)

Use of research methods to extend student's knowledge and experience beyond regular course work in areas of special interest. Prerequisite: One 300-level biology course.

15415 Laboratory Exercises in General Physiology (1)

Laboratory exercises in organ system physiology utilizing methods of animal dissection and human subjects. These exercises involve the practical applications of principles discussed in General Physiology (15413) and experimental demonstrations of those principles. Prerequisite: 15201, 15202; corequisite 15413.

15422 Principles of Microbial Genetics (3)

Analysis of gene structure and function of prokaryotes. Prerequisite: 15320.

15426 Cell Ultrastructure (4)

Study of vertebrate histology, cell structure and organization. The course emphasis is correlating cell structure and function. Three human systems are emphasized: digestive, urinary and circulatory. Cell structure and function are examined using data from three investigative levels (light, transmission and scanning electron microscopes), to examine the connective tissue, kidney, intestine and blood vessels. Prerequisite: 15201 and 15202, or PI.

15441 Principles of Endocrinology (4)

Survey of the major endocrine glands: structure, biochemistry, and function in the integration of physiological processes, and their relationship to the nervous system. Prerequisite: 15413 or PI.

15443 Pharmacology (3)

For students in health-related science, the basic principles of drug action, metabolism, interactions, and adverse reactions, and surveys the specifics of the major drug classes. Prerequisite: Enrolled in Nursing Program (BSN) or 15201 and 15202, or PI.

15445 Pathophysiology (3)

Basic physiology of major organ-systems and major alterations in physiology which lead to pathology. Homeostatic

mechanisms and their aberrations are emphasized as the framework of health and disease. Prerequisite: Enrolled in Nursing Program (BSN) or 15201 and 15202, or PI.

15490 Seminar in Biology (3)

The Seminar course is designed to introduce the advanced student to the process of organizing, writing, and orally presenting selected biological material. Prerequisite: Junior or senior status.

15491 Senior Research in Biology (3)

Individual laboratory and field research under the supervision of a faculty member, resulting in a written report, and an oral presentation to biology faculty and students. Prerequisite: Senior status and PI.

Graduate Courses

15505 Transmission Electron Microscopy (4)

This course has the format of a research project. Students are taught how to use the transmission electron microscope (TEM) as a research tool in the bio-medical disciplines. Students learn first hand the procedures associated with biological sample preparation: embedding, sectioning, staining, examination in the TEM and printing of the final electron photomicrographs. Prerequisite: Senior status.

15506 Cell Biology (4)

Study of cell organelles from the microscopic to the molecular level, emphasizing the relationship between structure and function. The current literature as well as landmark experiments are stressed. The laboratory utilizes cytochemical and biochemical methods to investigate the structure of organelles and their activities. Prerequisite: 15201 and 15202, 22305, or PI.

15507 Cytogenetics (4)

Study of the eukaryote genome. Topics: chromosome structure, DNA sequence organization, gene expression, cell division, and the role of chromosomal changes in evolution. Laboratory: Chromosome preparations are made for cytochemical analyses and for the study of chromosome behavior. Prerequisite: 15320 or PI.

15508 Scanning Electron Microscopy (4)

Introduction to using the scanning electron microscope (SEM) as a research tool. Students learn that the interaction of the electron beam with a sample results in the emission of different energies, each of which provides different information about the sample. Labs are devoted to sample preparation, collection of the data using the SEM, and interpretation of the energies. Prerequisite: Senior status.

15509 Advanced Ornithology (4)

Birds of the world, their taxonomy, anatomy, geographic distribution, ethology, and ecology; laboratory devoted to anatomical studies; methods of photographing birds, recording of bird songs, uses of telemetry, bird behavior, life history studies, identification of local species. Prerequisite: 15381 or PI.

15510 Mycology (4)

Structure, development, physiology, and ecology of fungi, their significance in diseases, and their utilization by man. Prerequisite: 15201 and 15202, or PI.

15511 Advanced Vertebrate Zoology (4)

Morphology, physiology, geographical distribution, and evolution of vertebrates of the world. Field and laboratory work devoted to studying life cycles of selected species. Oral presentation and written research paper required. Prerequisite: 15315 or PI.

15513 Conservation of Natural Resources (3)

Scientific explanation for fluctuations in our supply of natural resources and role of an effective conservation program. Proper utilization of soils, water supplies, forest products, wildlife, and recreational facilities. Examination of ecological principles that form the basis of sound management of natural resources. Exploration of application of these principles. Prerequisite: 15201 and 15202, or PI.

15514 Plant Pathology (4)

Nature and cause of disease in plants. Special emphasis on fungal diseases of plants. Prerequisite: 15201 and 15202, or PI.

15515 Microbial Genetics (4)

Chemical and physical organization of genetic materials. Gene action and specific systems illustrating genetic control of biochemical reactions. Prerequisite: 15320 and 22305, or PI.

15516 Molecular Biology (3)

Basic theory and techniques of molecular biology with the analysis of current molecular advances in diverse fields of study. Class discussions, independent literature research, written and oral presentations required. Prerequisite: 15320 or PI.

15517 Molecular Biology Laboratory (3)

Current molecular techniques and theory. Cloning, PCR, DNA preparation, RNA preparation, Southern blots, Northern blots and tissue culture techniques will be employed and analyzed within the context of the immune system. Project required. Prerequisite: 15320 or PI.

15518 Advanced Ecology (4)

Analysis of ecosystems and communities, their structure and function, distribution in time and space, and environmental relations. Laboratory and fieldwork emphasize methods of acquiring, analyzing, and interpreting ecological data as well as developing familiarity with ecological literature. Prerequisite: 15340 or PI.

15520 Advanced Entomology (4)

Major orders of insects with emphasis of life histories. Laboratory opportunity for individual studies of life histories and taxonomic studies of selected orders and families. Prerequisite: 15335 or PI.

15528 Endocrinology (3)

An introduction to the basic principles of endocrinology followed by a study of the physiology and biological chemistry of endocrine tissue and their secretions. Prerequisite: 15201 and 15202, or PI.

15540 Immunology (3)

The genetic, cellular, molecular, developmental and biochemical aspects of the immune system will be covered. These aspects are discussed in relation to the disease process and experimental analysis. Discussions of current research are included. Prerequisite: 15320 or 15325 or PI.

15545 Cell Development and Differentiation (3)

Emphasis is placed upon the mechanisms by which cells specialize during embryogenesis, wound healing, regeneration

and transformation. Specific attention to the mechanisms of movement, shape acquisition, and biosynthesis as well as certain new ideas regarding their genetic control. Prerequisite: 15313 or 15320 or PI.

15546 Human Embryonic Development (3)

Focuses on the embryology and anatomy of human development. In addition the physiological changes in the pregnant woman are discussed with regard to the developing embryo and fetus. Prerequisite: 15201 and 15202, or PI.

15550 Recent Advances in Biology (1-4 variable)

Recent developments in a specialized field of biology. May be repeated for credit at five-year intervals for the same special field. Prerequisite: 15201 and 15202, or PI.

15561 Endangered Species (3)

Exploration of the current status of selected endangered species of plants and animals through an exhaustive study of the literature in the field. Problems involved in protection, preservation and public policies toward these species will be explored. Prerequisite: 15201 and 15202, or PI.

15590 Thesis in Biology (6)

Writing and defense of a thesis under guidance of major professor. Required form available in the Records and Registration Office. Prerequisite: PI.

Black Studies

Professor:

A.J. Williams-Myers, Ph.D. (history), California-Los Angeles

Associate Professor:

Margaret Wade-Lewis (Chair), Ph.D., (linguistics),
New York University

Assistant Professors:

Eudora Chikwendu, Ph.D. (political science), University of
Nigeria

Zelbert Moore, Ph.D. (history), Temple

The Department of Black Studies seeks to provide a more thorough and accurate treatment of the history and contributions of Black people; to analyze the impact of current economic, social, and political forces that shape the Black experience; to contribute to a basic understanding of the special issues, concerns, and needs of Black people; to provide an opportunity to study the literature and other artistic expressions of Black people; and to afford an opportunity for research and creative activity in Black Studies, both on campus and in the community. A liberal arts major and minor and a Pre-K-6 education major are offered in Black Studies.

The Black Studies curriculum is multidisciplinary with courses drawn from history, humanities, sociology, psychology, political science, and economics. There is no language requirement, but students interested in travel or study in Africa are encouraged to acquire reading and/or speaking ability in an African language. The department also offers for credit Voices of Unity (a gospel choir) and New Day Ensemble (a theatre group).

Although fieldwork is not required, students majoring in Black Studies are strongly urged to participate for credit in a field activity or internship with organizations and agencies that impact upon the lives of Blacks.

Major

Black Studies

33 credits

Required courses12 credits

17100	Introduction to Black Studies (3)
17201	Black History I (3)
17202	Black History II (3)
17490	Seminar in Black Studies (3)

Four courses12 credits

One each from the historical, humanities, sociopsychological, and political-economic cores.

Historical Core

17101	The Modern World (4)
17200	Introduction to Africa (3)
17231	The Development of Afro-Latin American Civilization 1492-1825 (3)
17232	Contemporary Afro-American Civilization Since 1825 (3)
17301	Pre-colonial Africa to 1800 (3)
17302	Contemporary Africa: 19th Century to the Present (3)
17309	Introduction to Afro-Brazilian History (3)
17311	Blacks in the Caribbean, 1492-Present (3)
17325	History of Slavery in the Americas (3)
17347	History of South Africa (3)
17364	History of Black Political Thought (3)
17450	The Portuguese in Africa (3)
17460	West African Kingdoms in the 19th Century (3)

Humanities Core

17260	Essence of Black Music (3)
17263	Black Dance (3)
17265	African American Art (3)
17267	Survey of Black American Literature (3)
17269	Black Poetry and Drama (3)
17300	Gospel Choir: Voices of Unity (2)
17310	Communications and the Black Community (3)
17320	Contemporary Black American Literature (3)
17323	Black Poetry (3)
17328	Black Drama in America (3)
17333	Black Rhetoric (3)
17396	Black English: Language and Culture (3)
17412	Critical Analysis/Black American Literature (3)
17415	Recurrent Themes in Black Literature (3)
17493	Selected Topics (1-3)
17494	Fieldwork in Black Studies (1-3)
17495	Independent Study in Black Studies (2-4)
55101	Elementary KiSwahili I (3)
55102	Elementary KiSwahili II (3)

Socio-Psychological Core

17221	The Black Woman (3)
17271	Black Sociology (3)
17340	Psychological Studies of Black Americans (3)
17350	Contemporary Social Issues in the Black Community (3)
17355	The Black Family (3)
17357	Psychology of the Black Child (3)
17370	Education in the Black Community (3)
17420	Counseling Underrepresented Students (3)

Political-Economic Core

17175	Key Issues in the Education of Blacks and Hispanics (3)
17250	Malcolm X: The Man and His Times (3)
17275	Advocacy Journalism in the Black Community (3)
17290	The Political Economy of Black America (3)
17330	Race and Racism (3)

- 17360 Politics of the U.S.A. and the Black Community (3)
 17364 History of Black Political Thought (3)
 17430 Black Organization and Movements in the
 Twentieth Century (3)
 17435 Blacks and American Law (3)

Electives **9 credits**

Each major candidate is required to complete, by advisement, 3 additional Black Studies courses.

Minor

Black Studies

18 credits

Required course **3 credits**

17100 Introduction to Black Studies (3)

Electives **15 credits**

Each minor candidate is required to complete at least 5 courses chosen from at least 2 of the core areas.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

17100 Introduction to Black Studies (3)

Introductory survey course designed to acquaint the student with the methods of research, bibliographies, and key issues pertaining to the Black experience.

17101 The Modern World (4)

A survey of the expansion of Europe, the development of the modern capitalist world system and challenges to it, cultural and material interchanges among the major world civilizations, the formation of industrial-urban societies, and the political and ideological foundations of present world civilization.

17175 Key Issues in the Education of Blacks and Hispanics (3)

An analysis of education in communities of color. Issues of economics, educational approaches, learning styles, school responsibilities and parental responsibilities.

17200 Introduction to Africa (3)

An interdisciplinary approach to the examination of Black America's African heritage to exemplify the methods of historical inquiry and analysis, and the issues raised by conflicting interpretations. Prerequisite: Freshman or sophomore.

17201 Black History I (3)

A survey of Black history from Africa to the 20th Century; Americans of African ancestry and the development of their unique status and relationship to American history, as well as to African, Caribbean, and world developments.

17202 Black History II (3)

A continuation of 17201, covering the period from the

beginning of the 20th century to the present. May be taken prior to or currently with 17201.

17221 The Black Woman (3)

Historical, interdisciplinary examination of the life situation of the Black woman, principally in America. Contributions made by Black women in education, politics, business, and literature. Problems faced by the Black woman, her view of herself, her relation to the Black family, community, other women, and American society.

17231 Development of Afro-Latin American Civilizations (1492-1825) (3)

New World Communities in the Americas initiated by Spain and Portugal from 1492 to 1825. Black contributions to the growth and development of such nations as Columbia, Panama, Venezuela, Ecuador, Argentina, Peru, and Brazil.

17232 Contemporary Afro-American Civilizations Since 1825 (3)

A survey of Afro-Latin American communities since Emancipation and the rise of national racial philosophies after the 1850's in Peru, Argentina, Colombia, and Venezuela. Black participation in politics, literary circles, and labor groups will also be examined.

17250 Malcolm X Man and Times (3)

A study of the life of Malcolm X as a contemporary Black everyman, including an exploration of connections to essential themes in Afro-American and U.S. history.

17260 Essence of Black Music (3)

Survey of the music created and performed by Black people, beginning with its roots in Africa and extending to blues, gospel, jazz, rhythm and blues, and contemporary popular music in the Americas.

17263 Black Dance (3)

Theoretical and practical study of Black dance in Africa, the United States, the Caribbean, and South America. Examination of historical and contemporary forms within a cultural framework.

17265 African American Art (3)

A survey of the contributions of Afro-Americans to painting, sculpture, and other visual arts with a discussion of the African antecedents.

17267 Survey of Black American Literature (3)

A survey of the works of major Black American writers with emphasis on fiction and the essay, but including also biography, poetry, and drama.

17269 Black Poetry and Drama (3)

Critical study and oral reading of Black poetry and drama. Works of representative writers, such as Langston Hughes, Lorraine Hansberry, Wole Soyinka, Dennis Brutus, Gwendolyn Brooks, and Don L. Lee. Themes, styles, and aesthetic philosophies, and impact of both the oral and written traditions in the works.

17271 Black Sociology (3)

From the Black perspective, the sociology of power, racism, and privilege as they affect Black people.

17275 Advocacy Journalism in the Black Community (3)

Journalistic techniques used to communicate with various advocacy groups; to explore and expose community problems and suggest solutions to those problems.

17290 The Political Economy of Black America (3)

The economic base of the Black community and its role in establishing the political agenda of Black America.

17300 Gospel Choir/Voices of Unity (2)

Contemporary gospel music, emphasizing voice techniques, solo and group performances, and the study of the roots of spiritualism and how it impacts on each individual performer. Prerequisite: PI (Audition).

17301 Survey of Pre-Colonial Africa to 1800 (3)

African initiatives in the development of sub-Saharan African society, from the coming of the Europeans in the sixteenth century to the decline of the slave trade and the increase in Euro-Asian intrusions in the eighteenth and nineteenth centuries.

17302 Survey of Contemporary Africa: Nineteenth Century to Present (3)

An examination of political and economic change in nineteenth-century Africa, European for Africa, colonialism and under-development, the African drive for independence in the twentieth century, the establishment of independent nation-states, the modernization of African societies, and the liberation movements in southern Africa.

17309 Introduction to Afro-Brazilian History (3)

Introduction to Afro-Brazilian History; contributions of Blacks to Brazilian society from the time of discovery to the present. The slavery and abolition of slavery period will receive considerable attention, as will politics, journalism, culture, and language, and religion.

17310 Communications and the Black Community (3)

Examination of mass communications media as they pertain to the Black community with special emphasis on the historical and contemporary role of the Black press.

17311 Blacks in the Caribbean, 1492-Present (3)

Topics in this history course include slavery, abolition, creolization, Afro-Caribbean traditions in languages, religions, and politics. Belize, Jamaica, Grenada, Barbados, and Martinique, etc.

17320 Contemporary Black American Literature (3)

A sociological, political, and esthetic view of current works by Afro-American poets, prose and dramatic artists.

17323 Black Poetry (3)

Introductory course designed to acquaint students with over 200 years of Black American poetry.

17325 History of Slavery in the Americas (3)

An intensive and comparative study of the institutions of slavery in North and South America.

17328 Black Drama in America (3)

Investigation of the Black contribution to the American stage and the continuing artistic development within the perspective of the changing political, economic, and social scene.

17330 Race and Racism (3)

A review of the nature of American race relations, their European and African antecedents, and the major social and scientific paradigms that have addressed this topic.

17333 Black Rhetoric (3)

Study and analysis of the speaking of Black leaders, past and present, such as Frederick Douglass, Sojourner Truth, Booker T. Washington, Malcolm X, Martin Luther King, Stokely Carmichael, Eldridge Cleaver, Adam Clayton Powell, Julian Bond, Roy Wilkins, Whitney Young, A. Philip Randolph, and Jesse Jackson.

17340 Psychological Studies of Black Americans (3)

A consideration of investigations and experimentation in the field of human behavior with Black people in America as subjects.

17347 History of South Africa (3)

Socioeconomic and political development of the South African state from 1652 to the present. Particular attention to the interrelationships of the Khoisan and Bantu with Anglo-Dutch; the entrenchment of the apartheid ideology and the rise of African nationalism.

17350 Contemporary Social Issues in the Black Community (3)

Key issues that affect the Black community; social science research that analyzes the problems and suggests solutions.

17355 The Black Family (3)

A socio-psychological analysis of the Black family; its African origins, adaptations to American experience, and strategies for aiding the survival and advancement of its members.

17357 Psychology of the Black Child (3)

By utilizing observations and research the course explores the special cultural, political, and economic forces that shape the physical, cognitive, and emotional development of Black children. The course assumes that Black children are, in general, subject to forces that cause their psychological development to differ from that of the middle class American child studied in traditional child psychology courses.

17360 Politics of the U.S.A. and the Black Community (3)

The relationship of the community to the broader politics of America viewed in historical perspective. Also includes an examination of contemporary techniques for social, political, and economic change in the Black American community.

17364 History of Black Political Thought (3)

Comparative and historical study of the development of Black political thought from the seventeenth century to the present.

17370 Education in the Black Community (3)

Sociological, political and psychological issues that impact upon the educational goals, resources, and results of Black Americans; various meanings, functions, and goals of education for the Black community.

17396 Black English: Language and Culture (3)

Theories of origin, structure, and semantics of Black English in America; comparisons with Standard American English and African-based English languages of Africa and the Caribbean; Black English and related lifestyles, such as the oral tradition, as cultural phenomena; language use and public policy.

17412 Critical Analysis of Black American Literature (3)

Methods and tools of criticism of literature by or about Black Americans.

17415 Recurrent Themes in Black Literature (3)

Examination of the themes of man/womanhood, identity, and alienation as they have been developed in African-American

literature. Development of these themes in oral and written literature in various generations.

17420 Counseling Underrepresented Students (3)

Peer counseling of freshman students of underrepresented groups. Study of theories and approaches to counseling; achievement behavior; goal setting; academic and social adjustment; and self-examination. Students study and discuss the literature and interact with freshmen assigned to them.

17430 Black Organization and Movements in the Twentieth Century (3)

Historical development of various tendencies in the Black people's movement from the Dubois-Washington controversy, the organization of the Niagara Movement, the NAACP, the Garvey Movement, the Urban League, Brotherhood of Sleeping Car Porters, Blacks in the CIO, National Negro Congress, CORE, SNCC, Black Muslims, Southern Christian Leadership Conference, and Black Panthers to possible perspectives for the twenty-first century.

17435 Blacks and American Law (3)

Analysis of major judicial decisions, legislation, and constitutional rights affecting Blacks in relation to the historical and contemporary bases and ramifications of the denial of their rights. Prerequisite: 17100.

17450 The Portuguese in Africa (3)

A seminar on Portuguese expansion and involvement in Africa from the 15th century to the present. Examination of the motivating factors from the initial Portuguese expansion into Africa, giving consideration to Portugal's position in Medieval Europe, her uneconomic exploits along the East African Coast, historical basis for entrenchment in Mozambique and Angola, African reaction against Portuguese intrusion, and problems of development of Portuguese-speaking/African independent nation-states.

17460 West African Kingdoms in the Nineteenth Century (3)

A seminar in the historiography of West African Kingdoms in the nineteenth century. Resilience and dynamism implicit in African economic and political institutions in a century that has been characterized as very revolutionary. Prerequisite: 17301 or 17302 or PI.

17490 Seminar in Black Studies (3)

Topics and faculty vary from semester to semester. Emphasis on student research and the writing of a major seminar paper. Required of Black Studies majors. Prerequisite: 17100, 17201, and 17202.

Chemistry

Professor:

Stanley Kudzin, Ph.D., Fordham

Associate Professors:

David Straus, Ph.D., Chicago

Richard Tofte (Chair), Ph.D., Rensselaer Polytechnic

Assistant Professors:

Albert Gawer, Ph.D., Columbia

David White, Ph.D., University of Witwatersrand, S. Africa

Chemistry is often called the "central science" because every practicing scientist from archaeologist to zoologist relies to some extent on chemical information. Dealing with health,

environmental, and energy problems requires a knowledge of chemistry. Thus the demand for trained chemists in our society remains strong. The Chemistry Department at New Paltz offers many advantages to the student interested in the challenging and exciting science of chemistry.

The Chemistry Department provides a strong background in general, organic, physical, and analytical chemistry. It also offers a variety of courses not generally available at four-year colleges. New Paltz upper-division undergraduates are able to enroll in advanced courses in biochemistry, polymer science, instrumentation, and biotechnology.

The New Paltz Chemistry Department focuses on the undergraduate student. The introductory courses allow for individual attention in small recitation and lab sections, which are taught by faculty members. The small class size of upper-division courses encourages close interaction with faculty and other students.

High quality modern equipment is used for instruction and research in student laboratories. Chemistry majors use this sophisticated equipment as early as their sophomore year. Programs to expose students to the uses of electronics and computers in chemistry in the instrumental laboratory are being developed. Chemistry faculty members sponsor student research.

The Department of Chemistry at New Paltz offers both undergraduate and graduate instruction. Four undergraduate programs leading to liberal arts degrees are available: the chemistry major, the American Chemical Society (ACS) approved chemistry major, the chemistry major with biochemistry emphasis, and the chemistry major with biotechnology emphasis.

A student who obtains an ACS-approved degree is eligible for employment as a chemist in industry or government. The ACS-approved program also prepares students for graduate study and for professional training in medicine, dentistry, and veterinary medicine. A variety of course offerings allow chemistry majors to obtain a broad background in several areas of chemistry or to specialize in one particular area.

The biochemistry emphasis is designed for the student interested in biochemistry or health-related sciences requiring a substantial background in chemistry. This program provides excellent preparation for health professional training, as well as for graduate study in clinical chemistry, physiology, and medicinal chemistry. Students take core courses in chemistry and biology and complete the year-long biochemistry sequence.

The biotechnology emphasis substitutes an advanced laboratory course for 22303 and 22407 and also has additional biology requirements beyond the biochemistry emphasis major in chemistry. This program is designed to prepare graduates for further study or work in this exciting new area of knowledge.

The chemistry major requires fewer advanced courses than either of the previously mentioned programs. Students are able to combine a chemistry major with prelaw, business, or teaching programs. Preparation for a non-laboratory career in chemistry could include management or marketing courses offered by the business program at New Paltz.

Recent national surveys have identified trends in the evolving growth areas of businesses that use chemistry. These suggest

that combining chemistry courses with experience in related areas provides a good background for future career choices. The Chemistry Department has identified courses that provide the chemistry major with knowledge of small business operations, environmental monitoring and materials development. Check cross listings in the Schedule of Classes and speak with your major advisor for further information.

The American Chemical Society's Committee on Professional Training includes the New Paltz Chemistry Department on its list of approved departments. This is the equivalent to professional accreditation of the liberal arts curriculum.

Prospective chemistry majors should consult with the department chair as soon as possible after admission to the College and should take 64251 and 22201 in the fall semester of the freshman year.

Majors

Chemistry

(General Degree)
50-51 credits

Required chemistry courses35-36 credits

22201	General Chemistry I (4)
22202	General Chemistry II (4)
22303	Introduction to Analytical Chemistry (4)
22318	Organic Chemistry I (5)
22319	Organic Chemistry II (5)
22321	Physical Chemistry I (3)
22322	Physical Chemistry II (3)
22323	Experimental Physical Chemistry (3)
22485	Seminars in Chemistry (0)

One course from the following:

22461	Biochemistry I (4)
22462	Biochemistry II (4)
22512	Advanced Inorganic Chemistry (3)
22570	Biochemistry (3)
22574	Principles of Polymer Sciences (3)

A Chemistry course at 400 or 500 level approved by the Chair.

Required cognate courses16 credits

64251	Calculus I (4)
64252	Calculus II (4)
75201	General Physics I (4)
75202	General Physics II (4)

Though not required, 22407, Instrumental Techniques, is strongly recommended.

Chemistry

(ACS approved degree)
74 credits

In addition to the courses required by the general degree in chemistry, the following are required:

22407	Instrumental Techniques (4)
22490	Senior Research in Chemistry (3)
22512	Advanced Inorganic Chemistry (3)
22570	Biochemistry (3)
22574	Principles of Polymer Sciences (3)
OR	
22575	Principles of Materials Science (3)

Elective chemistry course3 credits

One additional semester of advanced work selected from 400- and 500-level courses in chemistry. (22495, Independent Study, and 22494, Fieldwork, do not meet this requirement.)

Required cognate courses20 credits

64251	Calculus I (4)
64252	Calculus II (4)
64353	Calculus III (4)
75201	General Physics I (4)
75202	General Physics II (4)

Chemistry

(Biochemistry Emphasis)
75 credits

In addition to the courses required by the general degree in chemistry the following courses are required:

22407	Instrumental Techniques (4)
22461	Biochemistry I (4)
22462	Biochemistry II (4)
22485	Seminars in Chemistry (0)
22490	Senior Research (3)

Required cognate courses28 credits

64251	Calculus I (4)
64252	Calculus II (4)
75201	General Physics I (4)
75202	General Physics II (4)
15201	General Biology I (4)
15202	General Biology II (4)
15320	Genetics (4)

Chemistry

(Biotechnology Emphasis)
73-74 credits

In addition to the courses required by the general degree in chemistry (with the exception of 22303, Introduction to Analytical Chemistry and 22407, Instrumental Techniques) the following courses are required:

22461	Biochemistry I (4)
22462	Biochemistry II (4)
22572	Biotechnology Lab (4)

Required biology courses19-20 credits

15201	General Biology I (4)
OR	
15210	Introduction to Biology (4)
15311	Developmental Plant Anatomy (4)
OR	
15545	Cell Development and Differentiation (3)
15320	Genetics (4)
15350	Microbiology (4)
15506	Cell Biology (4)

Required cognate courses16 credits

64251	Calculus I (4)
64252	Calculus II (4)
75201	General Physics I (4)
75202	General Physics II (4)

The college also offers an Interdisciplinary minor in Environmental Science. See Index.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

22102 Chemical Pollutants and Environmental Health (3)

Sources and environmental distributions of chemical pollutants, means and degree of human and ecosystem exposure to such pollutants. Acute and chronic toxicity of these pollutants, evaluating risk estimates of adverse health effects, means used to control pollutants, accepted standards of safety.

22103 Human Nutrition (3)

Principles and concepts of nutrition with those of chemistry, biochemistry, and food science. Relationship of food intake to physical and mental well-being of the individual.

22104 Chemistry for the Consumer (3)

Introduction to fundamental principles of chemistry. Description of the behavior of chemicals found about the home: water, foods, drugs, soaps and detergents, plastics, fibers, fuels, poisons, fertilizers, metals, other common substances. Metric measurement. Not for science majors.

22110 Health Science Laboratory (1)

Introductory chemistry laboratory in health science. Seven experiments demonstrating measurement; analysis of foods; a cellular constituent; over-the-counter drugs; synthesis of aspirin; nature of acid and bases; etc. Corequisite: 22170 or 22103 or 22102.

22170 Chemistry of Life (3)

Topics in the chemistry of life including trace elements, vitamins, drugs, carcinogens, sugars, proteins, and nucleic acids.

22182 Chemistry in Art (3)

Materials used in the production of art works, including their sources, properties, and applications. Topics to be covered are: metals, their use in sculpture, printmaking, and gold and silver work; paper; black and white photography; pigments and dyes; coatings (varnishes and synthetic polymers). Designed for non-science majors. Prerequisite: Not for science majors.

22201 General Chemistry I (4)

Principles governing chemical change in relation to the atomicity of matter, atomic structure and the periodic system of the elements. Laboratory work in diversified typical chemical reactions and manipulations and qualitative chemical analysis. Prerequisite: "C-" in 64050 or MPL 3.

22202 General Chemistry II (4)

Kinetics, thermodynamics, equilibria and electrochemistry. Laboratory work in inorganic preparation equilibria and quantitative analysis. Prerequisite: 22201.

22303 Introduction to Analytical Chemistry (4)

Lecture and laboratory work in gravimetric, volumetric, and elementary instrumental analysis. Application of statistics to

analytical chemistry. Prerequisite: 22202. Recommended corequisite: 22321.

22316 Recitation Organic Chemistry I (0)

Weekly discussion sessions required of all students enrolled in 22305 in which assigned homework problems and any additional concepts of organic chemistry requested by the class are discussed.

22317 Recitation Organic Chemistry II (0)

Weekly discussion sessions required of all students enrolled in 22308, in which assigned homework problems and any additional concepts of organic chemistry requested by the class are discussed.

22318 Organic Chemistry I (5)

Structural theory and its application to the study of the properties of carbon compounds. Laboratory work in basic techniques on a microscale level. Prerequisite: 22202; corequisite 22316.

22319 Organic Chemistry II (5)

Continuation of Organic Chemistry I. Laboratory work will utilize the microscale techniques employed in Organic Chemistry I to the study of organic reactions. Prerequisite: 22305; corequisite 22317.

22321 Physical Chemistry I (3)

Ideal and real gases, kinetic molecular theory, thermodynamics, phase and chemical equilibrium, surface chemistry. Prerequisite: 22202, 64252, and 75202.

22322 Physical Chemistry II (3)

Chemical kinetics, electrochemistry, electrolytic equilibria, quantum chemistry, molecular structure; spectroscopy. Prerequisite: 22321.

22323 Experimental Physical Chemistry (3)

Lecture and laboratory work in methodology and techniques used in physical chemistry. Stresses design of experiments, thorough analysis of data, and the writing of scientific reports. Prerequisite: 22303. Corequisite: 22322.

22407 Instrumental Techniques (4)

Familiarization with the modern instruments and techniques used in chemistry. Prerequisite: 22322 and PI.

22461 Biochemistry I (4)

Examination of the chemistry of cellular constituents, especially biopolymers, and metabolic reactions leading to biologically useful energy production. Control of intermediary metabolism at the molecular level. Prerequisite: 22308, 22309, 15201, 15202.

22462 Biochemistry II (4)

Further consideration of metabolic energy yielding processes and utilization of this energy for biosynthesis of nucleic acids, proteins, and cell organelles and membranes. Genetic and organismal control of cellular development. Methods of genetic engineering. Prerequisite: 22461.

22471 Elements of Organic Chemistry and Biochemistry (3)

A brief introduction to organic chemistry and chemistry of living state. Prerequisite: One semester chemistry; closed to chemistry majors.

22485 Seminars in Chemistry (0)

A series of lecture and discussion sessions conducted by

distinguished visiting scientists and faculty members and students of the chemistry department. Topics are of current interest in chemistry, many of which cannot be covered in traditional courses. Prerequisite: Senior chemistry majors.

22490 Senior Research in Chemistry (3)

Student undertakes a program of research under the guidance of a faculty advisor. Prerequisite: PC.

Graduate Courses

22503 Advanced Organic Chemistry (3)

Topics of current interest in organic research. Prerequisite: One year of undergraduate organic chemistry.

22509 Spectrometric Identification of Organic Compounds (3)

Application of spectrometry (mass, infrared, ultraviolet and nuclear magnetic resonance) to the identification of organic compounds. Prerequisite: One year undergraduate organic chemistry.

22510 Chemistry Seminar (1-3)

Recent progress in chemistry from current chemical literature. Format based on individual readings, information retrieval, reports, and discussions. Prerequisite: Chemistry major.

22512 Advanced Inorganic Chemistry (3)

Atomic structure, periodicity, ionic and covalent bonding. Acid-base and solution chemistry. Bonding theories and structure of transition metal complexes. Prerequisite: Physical chemistry.

22531 Separation Methods in Chemistry (3)

A course that applies physical, chemical and equilibrium properties to the problems of isolating components in analytical processes with emphasis on chromatographic procedures. Applications from current literature. Prerequisite: Undergraduate course in physical and analytical chemistry.

22535 Chemical Engineering for Chemists (3)

Expands skills and techniques acquired in physical chemistry by providing applications to large systems of reaction occurring in flow systems. Introduction to the mass, momentum and energy balances and design concepts familiar to chemical engineers. Not for engineers. Prerequisite: Undergraduate course in physical chemistry.

22552 Computer Applications in Chemistry (3)

Use of digital computers in chemical problem solving and laboratory automation. Topics include computer architecture, interfacing techniques, data acquisition and manipulation, and an introduction to data base management. Prerequisite: Instrumental Techniques or equivalent experience.

22570 Biochemistry (3)

Structure of biomolecules and their assemblies and the chemical reactions of metabolic processes. Molecular aspects of gene replication, transcription and translation. Prerequisite: One year of organic chemistry.

22572 Biotechnology Laboratory (4)

Methods of modern biotechnology, including molecular cloning, gene isolation, gene amplification, design and creation of recombinant plasmids and phages, site-specific mutagenesis, isolation and sequencing of recombinant DNA. Prerequisite: Biochemistry I, Microbiology and Genetics.

22574 Principles of Polymer Sciences (3)

Principles of formation and behavior of large molecules and their relationship to industrial and biochemical applications. Prerequisite: Organic chemistry.

22575 Principles of Materials Science (3)

Understanding of the relation between the properties of materials and composition and structure. Electronic structure of the atom, and its relationship to the chemical bonding in solids. Atom packing and crystal structures. Relationship of structure, including defects, to mechanical, electrical, and thermal properties of polymers in relation to structure. Composite materials. Surface defects: corrosion, friction, adhesion. Prerequisite: Two courses in physics and calculus.

22580 Topics in Biochemistry (3)

Modern biochemical research will be examined. Seminar using original literature. Subjects change over 4-year cycle including: molecular biology/genetics; intermediary metabolism/control; protein structure/function; chemistry of non-informational molecules. Prerequisite: One semester of Biochemistry. This course may be repeated.

22590 Thesis in Chemistry (6)

An individual research project conducted under the direction of a faculty advisor. Required form available in the Records and Registration Office. Prerequisite: PC.

Communication and Media

Professors:

Dudley Cahn, Ph.D., Wayne State
Howard Good, Ph.D., University of Michigan
Robert Miraldi (Chair), Ph.D., New York University

Associate Professors:

Janice Anderson, Ph.D., Pennsylvania State
James Smith, Ph.D., Pennsylvania State
Lynn Spangler, Ph.D., Wayne State
Patricia Sullivan, Ph.D., University of Iowa

Adjunct Associate Professor:

Glenn Doty, M.A., New York University

Assistant Professors:

Michael Dillon, Ph.D., Pennsylvania State
Mary Kahl, Ph.D., Indiana University-Bloomington

Lecturer:

Shelly Green, M.S., Columbia

The Department of Communication and Media consists of distinct programs in Communication, Journalism, and Radio and Television Production. The Department also offers a Communication-Education major for students wishing to teach Pre-K-6 (see listing under "Education"). All the Department's programs lead to the bachelor of arts degree. All three programs blend technical and theoretical courses that can lead to a variety of careers, from journalism to radio-television to public relations.

Students wishing to declare a major in any area of this department must have completed a minimum of 30 credits of college-level work. To enter the Radio-Television Production Program a student must have a cumulative grade point average (GPA) of 2.50.

In the fall of 1997 the Journalism and Radio-Television Production Programs moved into a brand new state-of-the-art building. The building is equipped with 48 computers for writing; 20 computers for editing and graphic design; two video editing studios, including computers for multi-media production; and an audio studio complete with editing facilities for radio production. It also has two lounges and a reading-seminar room for students taking courses in Communication and Media.

Students may not receive a grade lower than "C-" in any course considered part of the student's major program.

Majors

Communication
39 credits

The major in Communication emphasizes an understanding of communication principles and humanistic approaches to communication studies as well as the development of skills in public, organizational, and interpersonal contexts. The major provides a foundation for graduate work or for a career in any profession that deals with the public, such as politics, law, business, social work, or teaching. Students majoring in Communication may focus their course work by choosing one or more of the following concentrations: Public Communication, Organizational Communication, or Interpersonal-Intercultural Communication.

Required Introductory Courses6 credits

- 90102 Introduction to Communication (3)
- 90104 Public Speaking (3)

Required Intermediate Courses6 credits

Choose two:

- 90202 Interpersonal Communication (3)
- 90204 Discussion (3)
- 90213 Performance of Literature (3)
- 90357 Argumentation (3)

Required Theory Course3 credits

Choose one:

- 90353 Theories of Persuasion (3)
- 90354 Communication Research Methods (3)

Concentration12 credits

Majors must complete one concentration including a seminar which is considered the capstone course.

Concentration 1: Public Communication

Select 3 courses in addition to the seminar.

- 77393 Politics and Media (3)
- 90356 Communication and Dissenting Voices (3)
- 90433 Aesthetics and Criticism of Television (3)
- 90451 Political Communication (3)
- 90452 Communication and Gender (3)
- 90453 Contemporary Communication Seminar (3)

Concentration 2: Organizational Communication

Select 3 courses in addition to the seminar.

- 41315 Public Relations in America (3)
- 90221 Introduction to Advertising (3)
- 90359 Communication Among Cultures (3)
- 90360 Organizational Communication I (3)
- 90431 Electronic Media Sales and Promotion (3)
- 90450 Negotiation (3)

- 90454 Organizational Communication Seminar (3)

Concentration 3: Interpersonal-Intercultural Communication

Select 3 courses in addition to the seminar.

- 07215 Cultural Anthropology (3)
- 87379 Sociology of Interpersonal Relationships (3)
- 90355 Non-verbal Communication (3)
- 90358 Interpersonal Conflict (3)
- 90359 Communication Among Cultures (3)
- 90452 Communication and Gender (3)
- 90455 Interpersonal Communication Seminar (3)

Elective Communication Courses12 credits
(at least 6 upper-division credits)

Communication Media:

Radio-Television Production
39-51 credits

The Communication Media major concentrates on radio, television, cable and other electronic media. The Production sequence emphasizes audio production, media writing, radio/television performance and video production. This sequence is appropriate for those seeking preparation for advanced work or careers in radio/television production, corporate video, radio/television writing, post-production services and related areas. The number of student majors within the Production sequence may be limited.

The department is an institutional member of the Broadcast Education Association and the Association for Education in Journalism and Mass Communication.

Transfer students are reminded that at least one-half of the major course work (a minimum of 18 credits) must be completed at New Paltz. Our internship program requires applicants to maintain a 2.50 grade average, both overall and within the major. No grade lower than a "C-" will count toward the major requirements.

Core Courses Required for Both Sequences12 credits

- 90101 Media and Society (3)
- 90103 Electronic Media Production (3)
- 90224 Media Management and Economics (3)

Select one of the following:

- 90104 Public Speaking (3)
- 90203 Radio & Television Performance (3)
- 90204 Discussion (3)
- 90213 Performance of Literature I (3)
- 90201 Voice and Articulation (3)
- 90334 Speech for the Stage (3)
- 90357 Argumentation (3)

Required Courses18 credits

- 90319 Electronic Media Writing (3)
- 90320 Audio Production (4)
- 90340 Studio Video Production (4)
- 90440 Portable Video Production (4)
- 90490 Internship (3-13)*
- 90491 Internship Seminar (2)*

* One three-credit course may be substituted for 90490 and 90491.

Elective Courses9 credits

(Six credits must be upper division. Six credits may be outside of Production, if related.)

Minor

Communication

18 credits

Required Courses6 credits

Select one of the following:

- 90101 Media and Society (3)
- 90102 Introduction to Communication (3)

Select one of the following:

- 90104 Public Speaking (3)
- 90201 Voice and Articulation (3)
- 90202 Interpersonal Communication (3)
- 90213 Performance of Literature (3)

Elective Courses12 credits

Select any four communication courses by advisement; three of these must be upper-division level.

Communication Disorders (Proposed)

Professor:

Adelaide Haas, Ph.D., Columbia

Assistant Professors:

Anne C. Balant, Ph.D., Graduate Center-CUNY
 Robert Volin (Graduate Coordinator), Ph.D., Graduate Center-CUNY

Staff Associates:

Gretchen Madoff (Coordinator of Speech-Language Pathology Clinical Services), M.S.Ed., SUC-Buffalo
 Stella Laufer-Turk (Coordinator of Audiology Clinical Services), M.S., Brooklyn College-CUNY

Speech and Hearing

41-62 credits

Undergraduate study in Communication Disorders has been offered at New Paltz since 1969. Our program is highly regarded within a region extending from Albany to Westchester County and Connecticut. Two course sequences are available to students interested in this discipline:

- (1) Speech Education/Speech & Hearing Handicapped leads to provisional certification as a teacher of the speech and hearing handicapped in the public schools. To be eligible for this major, students must apply during the Fall semester of their junior year. Selection is based on performance in core courses, overall grade point average, and a written essay.
- (2) Communication/Speech & Hearing is a liberal arts major. Students may apply for this major prior to or during the fall of their junior year. At the time of formal application, they must have attained a cumulative grade point average of at least 2.50.

The New Paltz Speech and Hearing Center provides full-range diagnostic and therapy services in both Speech-Language Pathology and Audiology. Audiology and Speech-Language Pathology services are coordinated by full-time clinically certified supervisors and support staff. The Center contains six therapy rooms with adjoining observation rooms, three hearing evaluation rooms, separate resource rooms for speech and hearing, and numerous soundproof workspaces to be used by students for quiet study and clinical preparation. The

resource rooms contain books, up-to-date screening and diagnostic instruments, and therapy materials. Speech-language therapy is supported by several microcomputer-based systems. Computers are also available for report writing. Audiological testing equipment includes diagnostic audiometers, middle ear analyzers, a real-ear measurement system, an auditory evoked potential analyzer, an electronystagmography unit, and research capabilities in otoacoustic emissions. Audiological services include complete hearing aid assessment and dispensing, and assistive device/hearing protection counseling.

The Programs:

All Speech and Hearing majors take core courses such as Introduction to Speech Pathology, Introduction to Hearing and Speech Science, Anatomy and Physiology of the Speech and Hearing Mechanism, and Phonetics to assure adequate preparation for the more advanced curricula.

(1) Speech Education/Speech & Hearing Handicapped

62 credits

Required Core Courses14 credits

- 90302 Phonetics (3)
- 90306 Language Development in Children (3)
- 90310 Anatomy & Physiology of the Speech & Hearing Mechanism (4)
- 90312 Introduction to Speech Pathology (3)
- 90401 Observations in Communication Disorders (1)

Additional Required Courses.....42 credits

- 38371 Child Psychology and Development (3)
- OR*
- 80343 Psychology of Infancy & Childhood (3)
- 90305 Introduction to Speech and Hearing Science (3)
- 90402 Clinical Participation 1 (2)
- 90403 Clinical Participation 2 (3)
- 90406 Diagnosis in Speech Pathology (4)
- 90409 Introduction to Aural Rehabilitation (3)
- 90410 Organization of Speech & Hearing Programs (2)
- 90411 Student Teaching (Speech Pathology) (13)
- 90415 Disorders of Child Language (3)
- 90417 Audiology (3)
- 90418 Disorders of Prosody & Voice (3)

Electives Courses3 credits

Select one course from the following group:

- 90102 Introduction to Communication (3)
- 90260 Sign Language I (3)
- 90355 Non-verbal Communication (3)
- 90359 Communication Among Cultures (3)
- 90361 Sign Language II (3)
- 90407 Speech Perception & Hearing Impairment (3)

Communication Skills Elective Courses3 credits

Select one course from the following group:

- 90104 Public Speaking (3)
- 90202 Interpersonal Communication (3)
- 90204 Discussion (3)
- 90213 Performance of Literature I (3)

In addition, students are advised to take one science and one mathematics course at the college level, since these are requirements for Certification by the American Speech-Language-Hearing Association. Students must pass the Liberal Arts and Science Test (LAST) and the Assessment of Teaching

Skills-Written (ATS-W) in order to earn Provisional Certification as a teacher of the speech and hearing handicapped in New York State.

(2) Communication/Speech & Hearing

41 credits

Required Core Courses14 credits

90302	Phonetics (3)
90306	Language Development in Children (3)
90310	Anatomy & Physiology of the Speech & Hearing Mechanism (4)
90312	Introduction to Speech Pathology (3)
90401	Observations in Communication Disorders (1)

Additional Required Courses18 credits

90305	Introduction to Hearing & Speech Science (3)
90405	Tests and Assessment in Communication Disorders (3)
90409	Introduction to Aural Rehabilitation (3)
90415	Disorders of Child Language (3)
90417	Audiology (3)
90418	Disorders of Prosody & Voice (3)

Elective Courses6 credits

Select two courses from the following:

90102	Introduction to Communication (3)
90260	Sign Language I (3)
90355	Non-verbal Communication (3)
90359	Communication Among Cultures (3)
90361	Sign Language II (3)
90407	Speech Perception & Hearing Impairment (3)

Communication Skills Elective Courses3 credits

Select one course from the following:

90104	Public Speaking (3)
90202	Interpersonal Communication (3)
90204	Discussion (3)
90213	Performance of Literature I (3)

In addition, students are advised to take one science and one mathematics course at the college level, since these are requirements for Certification by the American Speech-Language-Hearing Association.

Liberal Arts Designation

The following courses may not be counted toward the liberal arts requirement: 90320, 90340, 90403, 90410, 90411, 90440, 90490.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

90101 Media and Society (3)

Introduction to the history, content, economics, regulation and effects of the major American mass media: books, newspapers, magazines, film, radio, sound recordings and television.

90102 Introduction to Communication (3)

Survey of the study of human communication including: the classical origins of the discipline; the value and impact of symbols; the role of communication in human behavior.

90103 Electronic Media Production (3)

Basic aesthetic principles, production techniques and technology of radio and television, including influence of photography, film, computers, telecommunication systems and digital formats. Lectures, screenings, laboratory exercises and field trips. Prerequisite: PC.

90104 Public Speaking (3)

Communicating an idea successfully to an audience in a one-to-many speaking situation. Emphasis on creating, researching, organizing, and presenting speeches. Prerequisite: PC.

90201 Voice and Articulation (3)

Based on an elementary study of the structure and function of the speech mechanism. Provides training for the improvement of voice production and speech sound formation.

90202 Interpersonal Communication (3)

Communicating successfully in personal and social relationships. Survey of the human element in communication with a focus on skills in self assertion, listening, perception, and understanding relationships. Prerequisite: PC.

90203 Radio-Television Performance (3)

Theory and practice of performance using the technology of radio and television, including announcing, interviewing, newscasting, and discussion. Prerequisite: PC.

90204 Discussion (3)

Problem solving in decision-making committees. Survey of group processes in task-oriented contexts. Practice in the techniques of organizing, leading, and participating in effective group discussions. Prerequisite: PC.

90213 Performance of Literature I (3)

Introduction to performance reading. The student selects, edits, explicates and prepares orally for performance, works of prose, poetry and dramatic literature. Prerequisite: PC.

90221 Introduction to Advertising (3)

Principles, practices, and theories of modern advertising communication ranging from planning and execution to research and social effects. Prerequisite: 90101 or PI.

90224 Electronic Media Management and Economics (3)

Principles, functions, and elements of management and economics with emphasis on broadcast, cable, network, and corporate organizations. Topics include public policy, current trends, organizational structures, sales, research, and programming. Prerequisite: 90101.

90260 Sign Language I (3)

An investigation of visual-gestural communication systems used by deaf and hearing impaired people. Vocabulary building and communication skill practice in the American Sign Language.

90302 Phonetics (3)

The sounds of speech, their manner of production, their combinations and behavior in connected speech, and their representation by spelling, diacritical marks, and phonetic symbols. Training in the use of the International Phonetic Alphabet.

90305 Introduction to Hearing and Speech Science (3)

The physics of sound, the decibel, physiology of hearing, psychoacoustics, acoustics of the speech signal, and the perception of speech. Prerequisite: 90310.

90306 Language Development in Children (3)

The nature of speech and language development in young children.

90310 Anatomy & Physiology of the Speech and Hearing Mechanism (4)

Basic anatomy and embryological development of the speech and auditory systems. The course also provides basic understanding of the physiology of respiration, articulation, phonation, and hearing.

90312 Introduction to Speech Pathology (3)

Survey of the field of speech-language pathology. Nature and etiology of disordered speech and language and basic principles of rehabilitation.

90314 Performance of Literature II (3)

Advanced performance experience and analysis of poetry and narrative prose. Prerequisite: 90213.

90315 Oral Interpretation of Shakespeare (3)

Experience in analysis and performance of the sonnets and representative plays of Shakespeare. Prerequisite: 90213 or 90314 or PI.

90319 Electronic Media Writing (3)

Theory and practice in copywriting, electronic journalism, and radio/television drama. Includes commercials, program promotions, teleplay and television series writing. Prerequisite: Media Core and PC.

90320 Audio Production (4)

Lecture and practical application of techniques and procedures in audio production for radio and audio for video, including tape formats, audio consoles, microphones, and editing. Prerequisite: Media Core and PC.

90322 Electronic Media Programming (3)

Analysis of broadcast and cable program development and scheduling. Topics include audience analysis and research, counter-programming, networks, and syndication. Prerequisite: Media Core and PC. Majors only.

90323 Communication Technology (3)

A survey of the new communication technologies including cable, videotex, satellites, terrestrial networks, interactive services, video devices, and other communication developments. Emphasis on technology, operations, programming, and marketing. Prerequisite: 90224.

90331 Broadcast and Cable History (3)

A survey of the history of radio, broadcast television, and cable. This course focuses on the political, economic, social and cultural forces that influenced their evolution and development, as well as contemporary trends and issues. Prerequisite: 90101.

90339 Electronic Media Law and Regulations (3)

Introduction to the legal and regulatory concerns of the electronic media. Topics include F.C.C. and other government regulatory agencies, public interest, copyright, indecency, professional organizations and self-regulation. Prerequisite: Media Core and PC.

90340 Studio Video Production (4)

Creative approaches and techniques of television production, emphasizing studio lighting, camera movement, directing and technical directing. Analysis, discussion, and practice in

aesthetics and content quality. Prerequisite: PC and 90319 and 90320.

90341 Cultural Diversity in U.S Film (3)

American films will be viewed from social, historical and cultural perspectives. Films portraying various cultural groups will be compared and analyzed to reveal changes in 20th century representations. Current trends will be emphasized. Prerequisite: Two freshman English courses.

90350 Media Research Methods (4)

Theory, design, and analysis of research in mass media. Includes coverage of surveys, ratings, statistics, reporting, and computer usage. Prerequisite: Media Core and PC.

90353 Theories of Persuasion (3)

Analysis of social aspects of persuasion, cultural bases for belief, and theories of attitude change. Principles and processes of motivating human behavior in a variety of contexts.

90354 Communication Research Methods (3)

A survey of the diverse methods of inquiry that are most commonly used by researchers in communication studies including CD-ROM and the internet.

90355 Non-verbal Communication (3)

Survey of the vocabulary, theoretical principles and research in non-verbal communication. Topics include: physical appearance; gesture; posture; touch; facial expressions; eye behavior; vocal cues; and the use of time and territory.

90356 Communication and Dissenting Voices (3)

Study and analysis of the discourse of minority leaders, past and present. The course treats the public dialogue between dominant and marginalized voices in American society.

90357 Argumentation (3)

Principles and techniques of advocacy, including the establishment of claims, the requirements of proof and the standards of evidence. Surveys the field of argumentation in social and philosophical settings.

90358 Interpersonal Conflict (3)

Exploration of antecedents, processes, and outcomes associated with conflict communication in friendships, courtships, marriages, and divorces.

90359 Communication Among Cultures (3)

Understanding how culture shapes our perceptions and communication behaviors. Strategies for effective cross-cultural and intercultural communication.

90360 Organizational Communication I (3)

Overview of communication processes in large-scale, hierarchical organizations. Emphasis on interviewing, committee decision-making, and developing business/professional presentations.

90361 Sign Language II (3)

American Sign Language communication skills at the intermediate level. Small group discussion, conversational practice, and signed public address. Class conducted partially in A.S.L. Prerequisite: 90260.

90401 Observations in Communication Disorders (1)

An introduction to clinical procedures, policies and theories of Communication Disorders. Clinical observations in the New Paltz Speech Hearing Center and off-campus. Prerequisite: PI. Corequisite: 90312.

90402 Clinical Participation 1 (2)

First level direct clinical experience through assisting student teachers and graduate students in individual therapy programs at the New Paltz Speech Hearing Center and other clinical facilities. Prerequisite: PI and Speech Hearing major.

90403 Clinical Participation 2 (3)

Therapeutic procedures in the management of disorders of oral communication. Participation in the management of a variety of speech and language problems, including carrying out planned programs of therapy, ongoing diagnosis, and accurate written reporting of these experiences. Grading is pass/fail. Prerequisite: PI and 90402.

90406 Diagnosis in Speech Pathology (4)

Philosophical and scientific considerations; basic principles and selected methods of diagnosis and appraisal of speech disorders; interprofessional relationship and referral procedures. Prerequisite: PC.

90409 Introduction to Aural Rehabilitation (3)

Audiologic management of hearing impairment, with emphasis on children. Rehabilitation strategies including early intervention, counseling, hearing aids, FM systems, assistive devices, cochlear implants, tactile aids; speech and language training; educational issues. Prerequisite: 90417 or PI.

90410 Organization of Speech and Hearing Programs (2)

Structure of programs providing speech and hearing services in public schools and other settings; consideration of professional and legal issues. Prerequisite: Required courses in the Speech and Hearing Handicapped major. Corequisite: 90411.

90411 Student Teaching & Clinical Practice in Speech & Hearing (13)

Supervised experience in teaching children with speech and hearing handicaps. Includes development, implementation, and documentation of Individual Education Plans; participation in Committee on Special Education and related meetings. Prerequisite: Required courses in the Speech and Hearing Handicapped major. Corequisite: 90410.

90415 Disorders of Child Language (3)

Study of the etiology and nature of language disorders. Preliminary assessment and treatment principles and techniques. Emphasis on physiological, morphological, syntactical, and pragmatic disorders in children. Prerequisite: 90302, 90306, 90312.

90417 Audiology (3)

The etiology of hearing disorders; principles and methods of audiometric assessment including pure tone and speech audiometry, screening, tympanometry, and acoustic reflex assessment; the interpretation of audiometric test results; audiologic management and follow-up. Prerequisite: 90310 or PI.

90418 Disorders of Prosody and Voice (3)

Critical evaluation of etiological concepts. Basic principles and selected methods of appraisal and treatment of prosody and voice disorders in children and adults. Prerequisite: 90312.

90419 Screenwriting (3)

Essential steps for creating screenplays for film and television. Visual thinking, critical analysis, character, plot, structure, dialogue, and rewriting to create a treatment and first act for a feature film, teleplay or television series. Prerequisite: 41160, Freshman Composition I, 41180, Freshman Composition II,

and 90319, Electronic Media Writing or PI.

90431 Electronic Media Sales and Promotion (3)

Theory, research, and practice of electronic media advertising sales and promotion. Analysis and development of sales presentations and electronic media marketing campaigns. Special attention to marketing research and ratings. Prerequisite: 90221 or PI.

90432 Television in American Culture (3)

Survey of research, concepts and problems associated with television viewing. Interaction of TV effects with audience uses and gratifications, construction of meaning.

90433 Aesthetics and Criticism of Television (3)

Analysis of major critical communication theories as they apply to television programming. Prerequisite: Media Core.

90434 International Media Systems (3)

An examination of the media systems of other countries, with special emphasis on the effects geo-political and cultural forces have on the development of specific mass communication channels throughout the world.

90440 Portable Video Production (4)

Creative and technical approaches to portable video production and post-production editing. Includes discussion and practice of preproduction planning for location work, technology and use of equipment, production aesthetics, and related business/legal considerations. Prerequisite: 90319, 90320, 90340 and PC. Majors only.

90450 Negotiation (3)

Communication strategies for surviving conflicts in organizational settings. Analysis and application of theoretical models of conflict management.

90451 Political Communication (3)

Examines the principles and practices of political communication by exploring the structure and strategies of presidential and legislative discourse. Topics include the impact of mass-mediated political messages and the rhetorical functions of political campaigns.

90452 Communication and Gender (3)

Influences of gender on language, speech and communication pragmatics. Topics discussed within a variety of communication contexts.

90453 Contemporary Communication Seminar (3)

Critical methods and new directions in the interpretation of rhetorical discourse. Nature and function of criticism. Analysis of rhetorical situations and collective rhetorics. Survey of neo-Aristotelian, generic, and dramatic critical orientations. Prerequisite: 90353 or 90354.

90454 Organizational Communication Seminar (3)

Synthesis of research regarding the role of communication in large, complex organizations. Study and application of research methods for analyzing organizational variables that affect communication behavior. Prerequisite: 90353 or 90354.

90455 Interpersonal Communication Seminar (3)

Synthesis of research regarding the role of communication in interpersonal relationships. Study and application of research methods for analyzing interpersonal variables that affect communication behaviors. Prerequisite: 90353 or 90354.

90490 Internship in Communication/Media (variable credit)

Internship in communication, electronic media, advertising, and related areas. Satisfactory/Fail. Prerequisite: 2.50 GPA and 18 credits in communication and PI. Corequisite: 90491.

90491 Internship Seminar (1)

The analytical component to internship experience. Students produce daily logs, professional article reviews, and a final project with accompanying analysis. Corequisite: 90490.

Graduate Courses**90502 Speech Disorders and Therapy (3)**

Survey of the field of speech and hearing therapy. Analysis of the symptoms, causes, and management of the common defects of speech. Methods of detection and prevention and general principles of retaining. Not open to students who have taken more than two credits in Communication Disorders.

90503 Practicum in Speech Language Pathology (1-3)

Procedures used in the examination, diagnosis, and treatment of speech and language disorders are studied and applied under supervision. Each student plans and carries out a program of therapy. Each credit earned requires 25 clock hours of experience. May be repeated for credit. Prerequisite: Matriculated (090) status and PI.

90505 Child Language Disorders (3)

An investigation of language pathologies, etiologies, assessment procedures and therapies for children. Prerequisite: Matriculated (090) status or PI.

90506 Pediatric Audiology (3)

Development of the auditory system and auditory behavior and clinical genetics, congenital hearing loss, audiological screening and assessment of infants and children, audiological management of childhood hearing impairment. Prerequisite: Matriculated (090) status or PI.

90507 Seminar in Articulation Disorders (3)

Etiology, diagnosis and clinical management of articulation disorders. Prerequisite: Matriculated (090) status or PI.

90508 Neurological and Physiological Bases of Speech (3)

Advanced study of the anatomical structures and neurological integrations responsible for the production and perception of the speech signal. Prerequisite: Matriculated (090) status or PI.

90510 Administration of Clinical Programs in Communication Disorders (3)

Organization and implementation of programs serving the communicatively handicapped in various settings. Study of relevant legal issues, record keeping, accountability, relationship to other personnel, supervision, Committee on Special Education, and financial considerations. Prerequisite: Matriculated (090) status or PI.

90511 Aural Rehabilitation of Children and Adults (3)

Social, emotional, and communicative impacts of hearing impairments; habilitation strategies for children including amplification, cochlear implants, auditory training, and educational placement; rehabilitation strategies for adults including amplification, speech reading, and assistive listening devices. Prerequisite: Matriculated (090) status or PI.

90512 Seminar in Stuttering (3)

Modern theories, research findings, and treatment methods

related to the study of the nature, etiology, and treatment of stuttering. Prerequisite: Matriculated (090) status or PI.

90515 Advanced Diagnostic Audiology (3)

Theory, application and interpretation of advanced psychophysical and physiological diagnostic procedures, including auditory evoked potentials, otacoustic emissions, and electronystagmography. Prerequisite: Matriculated (090) status and 90565 or PI.

90516 Seminar in Adult Language Disorders (3)

Nature and significance of language deficits and communicative disorders associated with aphasia, closed head injury, and dementia. Theoretical concepts and evaluative and therapeutic techniques examined. Recent research findings analyzed. Prerequisite: Matriculated (090) status or PI.

90517 Pragmatic Language Disorders in Children (3)

Students design and carry out programs for enhancing communication development with language disordered children. Course includes direct work with children, consultation with caregivers, reading and discussion related to pragmatics. Prerequisite: Matriculated (090) status or PI.

90520 Augmentative Communication Systems (3)

Theory and practice of augmentative communication systems. Examines basic decision making issues for clinicians in the selection of devices for those unable to use speech as a primary mode of communication. A variety of high and low technology devices are explored. Prerequisite: Matriculated (090) status and PI.

90522 Seminar in Voice Disorders (3)

Recent developments, research findings, and treatment methods related to the etiology and therapy of voice disorders. Prerequisite: Matriculated (090) status or PI.

90525 Advanced Diagnosis of Speech and Language Disorders (4)

Theoretical and practical application of the scientific method to diagnosis of speech, language, and voice disorders in individuals. Prerequisite: Matriculated (090) status or PI.

90550 Research Methods in Communication Disorders (3)

Introduction to the research process, research techniques and research sources. The dual goals of the course are to enable students to write effective research proposals for questions they desire to answer and to understand and critically evaluate research reports they read. Prerequisite: Matriculated (090) status or PI.

90561 Physiological Acoustics (3)

The physiological bases of hearing: anatomy of the outer ear, middle and inner ear and the central auditory nervous system; auditory physiology including acoustical, mechanical and electro-chemical processes; and current theories of hearing. Prerequisite: Matriculated (090) status or PI.

90562 Psychological Acoustics (3)

The psychological bases of hearing: psychoacoustic methods, auditory sensitivity, loudness, frequency selectivity, masking, binaural hearing, and the perception of complex sounds. Prerequisite: Matriculated (090) status and 90561 or PI.

90563 Seminar in Clinical Audiology (3)

Recent technological advances, research findings and professional trends in clinical audiology. Prerequisite: Matriculated (090) status and 90565 or PI.

90564 Auditory Disorders (3)

Medical aspects of the diagnosis and treatment of auditory disorders, medical diagnostic procedures and associated audiological findings, overview of medical treatments and audiological management. Prerequisite: Matriculated (090) status and 90565 or PI.

90565 Diagnostic Audiology (3)

Overview of diagnostic audiology; theory, application, and interpretation of behavioral and physiological tests of auditory function. Prerequisite: Matriculated (090) status or PI.

90566 Hearing Aids (3)

An examination of the acoustic, physiological and electroacoustic aspects of hearing aid design and measurement as well as hearing aid fitting and counselling. Prerequisite: Matriculated (090) status or PI.

90570 Diagnostic Audiology Practicum (1)

Clinical practice in diagnostic audiological evaluation techniques with emphasis on basic audiological concepts as they relate to test protocols; basic evaluation interpretation; strictly supervised setting. Minimum 25 hours required which can be added toward the hourly requirement for the Certificate of Clinical Competence of the American Speech Language Hearing Association. Prerequisite: Matriculated (090) status or PI and 90417, Audiology, or the equivalent from another academic institution.

90571 Hearing Aid/Assistive Device Practicum (1)

Clinical practice in hearing aid/assistive device evaluation and selection techniques utilizing various methodologies, troubleshooting strategies: hearing aid/earmold modifications; strictly supervised setting. Minimum 25 hours required which can be added toward the hourly requirement for the Certificate of Clinical Competence of the American Speech Language Hearing Association. Prerequisite: Matriculated (090) status or PI and 90591, Diagnostic Audiology Practicum or the equivalent. Corequisite: 90566, Hearing Aids.

90572 Advanced Diagnostic Audiology Practicum (2)

Significant clinical practice in diagnostic audiological, site of lesion evaluation, and hearing aid/assistive device evaluation in a supervised off-campus setting. Minimum 50 hours required which can be added toward the hourly requirement for the Certificate of Clinical Competence of the American Speech Language Hearing Association. Prerequisite: Matriculated (090) status or PI and 90591, Diagnostic Audiology Practicum, or the equivalent from another academic institution.

Economics

Professor:

Peter C. Garlick, (Chair), Ph.D., London

Associate Professors:

Jay Bloom, M.A., Chicago

C.R. Seshu, Ph.D., New School

Assistant Professor:

Simin Mozayeni, Ph.D., Columbia

The Department of Economics offers a program leading to a Bachelor of Arts/Bachelor of Science in Economics. It is designed to prepare students for graduate work in economics and in business administration as well as for entry-level

professional jobs in industry, government, and non-profit organizations.

Within the economics program students may concentrate in Business Economics or International Economics, or they may choose a General Economics program. Students intending to pursue graduate study in either economics or business administration are advised to follow the general program. Since graduate programs expect competence in mathematics it is strongly suggested that students complete Calculus I and II.

The concentration areas within the program are specifically designed to enable students to combine a liberal arts orientation with their individual graduate work/career objectives. Prospective majors in economics are strongly advised to seek faculty advice in planning their program consistent with their career goals and objectives.

Students should be aware of prerequisite requirements on all courses and may not register for courses when the prerequisite requirements have not been met. All of the core requirements should be completed prior to taking Senior Seminar in Economics.

Major

Economics

42-43 credits

Core Requirements27-28 credits

20309	Statistics for Business and Economics I (3)
20311	Statistics for Business and Economics II (3)
	An introductory Computer Course
33206	Introduction to Microeconomics (3)
33207	Introduction to Macroeconomics (3)
33306	Theory of Price (3)
33307	National Income Analysis (3)
33351	History of Economic Thought (3)
33450	Senior Seminar in Economics (3)

Concentration15 credits

All students must select one of the following concentrations:

Business Economics

Three of the following:

20341	Fundamentals of Corporate Finance (3)
33303	Money and Banking (3)
33304	Public Finance (3)
	<i>OR</i>
33305	State and Local Public Finance (3)
33312	Labor Economics (3)
33404	Industrial Organization (3)

AND

Any two upper-division economics course not already used to satisfy the above.

International Economics

Required:

33401	International Trade and Finance (3)
	<i>AND*</i>
33302	Comparative Economic Systems (3)
33418	Economics of Development (3)

** Certain selected topics courses such as Economic Development of Pacific Asia or Economic Development of Latin America may be substituted.*

Economics

Two of the following:

Any upper division economics course not already used to satisfy the above.

General Economics

Any five upper-division economics courses not already used to satisfy the core requirement.*

* 20341 *Fundamentals of Corporate Finance* may be substituted for one of the Economics courses.

Minors**Economics**

(Business Majors—not Accounting)

9 credits

Required:

Choice of three upper-division economics courses not already used to satisfy the business requirements.

Economics

(Business—Accounting Majors)

12 credits

Required:

One of the following:

- 33306 Theory of Price (3)
- 33404 Industrial Organization (3)
- 33425 Managerial Economics (3)

One of the following:

- 33303 Money and Banking (3)
- 33304 Public Finance (3)
- 33305 State and Local Public Finance (3)
- 33307 National Income Analysis (3)

Choice of two upper-division economics courses not already used to satisfy the business requirements.

Economics

(Non-Business Majors)

21 credits

Required:

- 33206 Introduction to Microeconomics (3)
- 33207 Introduction to Macroeconomics (3)
- 20309 Statistics for Business & Economics I* (3)

Choice of any 4 upper-division economics courses

* Any college-level statistics course may be substituted for 20309.

Economics

(International Relations Major)

21 credits

Required:

- 33206 Introduction to Microeconomics (3)
- 33207 Introduction to Macroeconomics (3)
- 20309 Statistics for Business & Economics I (3)
- OR
- 77300 Scope and Methods (3)

Choice of three of the following:

- 33401 International Trade and Finance (3)
- 33418 Economics of Development (3)
- 33XXX Economic Development of Pacific Asia (3)
- 33XXX Economic Development of Latin America (3)
- AND EITHER:
- 77343 Political Economy of Multinational Corporations (3)
- OR
- 77344 Politics of International Economic Organization (3)

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

33200 Current Economics Issues (3)

Introduction to economics, through a study of selected issues in the areas of growth, unemployment, inflation, income distribution, and efficiency in the U.S. economy. Not for majors in economics or business.

33206 Microeconomics (3)

Analysis of the allocation of scarce resources, the economics of the firm markets and the price system. Prerequisite: "C-" in 64050 or MPL 3.

33207 Macroeconomics (3)

Analysis of the interaction of the various sectors of the national economy. Prerequisite: 33206 with a grade of "C-" or better.

33302 Comparative Economic Systems (3)

Comparative study of free enterprise and state-managed economies, in their theory, operation, and policy trends. Prerequisite: One economics course with a grade of "C-" or better.

33303 Money and Banking (3)

The nature of money and a survey of various monetary theories. The structure and operation of financial intermediaries in the U.S. The role of the Federal Reserve System. Instruments and methods of monetary policy. Prerequisite: 33207 with a grade of "C-" or better.

33304 Public Finance (3)

The theory, practice, and problems concerning: financing government at all levels, government expenditures, and the pursuit of equity and efficiency in taxation and spending. Prerequisite: 33207 with a grade of "C-" or better.

33305 State and Local Public Finance (3)

This course examines the functions of state and municipal governments. The economic approach provides insight into the functions of governments and consequences of alternative activities, expenditures, and tax policy. The course analyses selected policy issues of current interest: budgeting process, education, transportation, economic development and the impact of the global economy. The U.S. fiscal federalism is compared with that of Canada, the European Economic Community and Japan. Economic growth policy is examined in the era of "fend for yourself" fiscal federalism and the global economy of the 1990's. Prerequisite: 33206 and "C-" in 33207.

33306 Theory of Price (3)

The relationship of market structures, cost structures, and entrepreneurial decisions in determining prices in the modern industrial society. Prerequisite: 33207 with a grade of "C-" or better.

33307 National Income Analysis (3)

Concepts of national income. Analysis of factors determining GNP, employment, investments, economic growth, and price level. Classical, Keynesian and post-Keynesian explanations of unemployment and inflation. Theories of business cycles. Fiscal and monetary policies. Prerequisite: 33207 with a grade of "C-" or better.

33312 Labor Economics and Labor Relations (3)

History of unionism and the practice of collective bargaining. Wage determination and wage structures; issues in bargaining impact of the government on labor-management relations. Prerequisite: 33207 with a grade of "C-" or better.

33351 History of Economic Thought (3)

Major economists and schools of economic theory from the mercantilists to Keynes. Prerequisite: 33207 with a grade of "C-" or better.

33401 International Trade and Finance (3)

Foreign exchange rates and international capital markets. The international balance of payments. Processes correcting surpluses and deficits. International monetary policy. Classical and modern explanations of trade and commercial policy. Economic integration. Prerequisite: 33207 with a grade of "C-" or better.

33404 Industrial Organization (3)

An analysis of the role of business firms in influencing and being influenced by industrial structure and with the consequences of this relationship for economic performance. A critical evaluation of selected anti-trust cases is also presented. Prerequisite: 33207 with a grade of "C-" or better.

33418 Economics of Development (3)

Analytical study of the problems of countries in early stages of economic development. Prerequisite: One economics course with a grade of "C-" or better.

33422 Urban Economic Problems (3)

The economic aspect of contemporary urban problems such as housing, education, welfare, transportation, finance, and industrial location. Prerequisite: 33207 with a grade of "C-" or better.

33425 Managerial Economics (3)

An integrative framework for analyzing business decision problems through application of the tools and techniques of economic analysis and decision sciences. Topics include demand forecasting, techniques of optimization relating to production and pricing and capital budgeting. Prerequisite: 33207, 20309 and 64245 with grades of "C-" or better.

33450 Senior Seminar in Economics (3)

Systematic study of selected topics in economics through guided readings, group discussions, and written research reports. Prerequisite: 33306, 33307, with grades of "C-" or better, and senior status.

English

Distinguished Professor:

Arthur Cash, Ph.D., Columbia

Professors:

John Alphonso-Karkala, Ph.D., Columbia

Barry Bort, Ph.D., Brown

A.M. Cinquemani, Ph.D., Columbia

Richard Hathaway, Ph.D., Western Reserve

Rudolf R. Kossmann, Dr. Litt., Leyden

Jan Z. Schmidt, Ph.D., Syracuse

Harry Stoneback, Ph.D., Vanderbilt

Wade Thompson, Ph.D., Columbia

Associate Professors:

Irma Goldknopf, Ph.D., Syracuse

Arthur Hack, Ph.D., Wisconsin

Daniel Kempton (Chair), Ph.D., California-Santa Cruz

Francis X. Paz, Ph.D., Columbia

Anthony Robinson, M.A., Columbia

Anne Trensky, Ph.D., CUNY

Robert Waugh, Ph.D., Harvard

Assistant Professors:

Mary Stella Deen, Ph.D., Virginia

Pauline Uehmanowicz, M.F.A., Iowa; Ph.D., Rhode Island

The Department of English offers several programs designed to give students a knowledge of their linguistic and literary heritage and to develop their skills as writers and critics. Each of the tracks within the major has its own requirements. These programs prepare students for careers in teaching, publishing and business as well as for graduate work in English and a variety of other disciplines in which effective reading and writing skills are important. At least half the work toward the major must be completed at New Paltz. Students must earn a grade of "C-" or better in courses used for an English major or minor. Freshman English courses do not count toward the major, nor do courses taken under the pass/fail option. Students who hope to become teachers must earn at least a grade of "C" in both freshman English courses.

English Honors Program

English majors may apply for the English honors program if they have a grade point average of 3.50 in at least six English courses (exclusive of Freshman English). They must make application to the Chair of English during the second semester of their junior year. During their senior year, they will write an honors thesis which will be judged by a three-person committee. They may earn three credits for this work, which can count as an elective in their major program. Successful completion of the honors program entitles the student to graduate with honors in English -- acknowledged on their college transcript. For further details, ask at the English Department office for the English Honors Information Sheet.

Majors

English

(Liberal Arts)

42 credits

Required Courses21 credits

41301 English Literature I (3)

41302 English Literature II (3)

41303 English Literature III (3)

Two of the following:

41331 American Literature I (3)

41332 American Literature II (3)

41333 American Literature III (3)

One of the following:

41406 Shakespeare I (3)

41407 Shakespeare II (3)

One of the following:

41420 Literary Criticism (3)

41423 Major Trends in Twentieth-Century Criticism (3)

Elective Courses21 credits

Seven courses in Literature offered by the English Department, of which at least four must be at the 400 or 500 level. Elective courses by advisement only.

English

(Graduate Preparatory)

54 credits

Required Courses21 credits

41301 English Literature I (3)

41302 English Literature II (3)

41303 English Literature III (3)

Two of the following:

41331 American Literature I (3)

41332 American Literature II (3)

41333 American Literature III (3)

One of the following:

41406 Shakespeare I (3)

41407 Shakespeare II (3)

One of the following:

41420 Literary Criticism (3)

41423 Major Trends in Twentieth-Century Criticism (3)

Elective Courses21 credits

Seven courses in Literature offered by the English Department, of which at least four must be at the 400 or 500 level. Elective courses by advisement only.

Foreign Language Requirement12 credits

Each student is required to complete at least 4 college-level courses in a foreign language, preferably French or German, or demonstrate a reading knowledge of the language through examination.

English

(Creative Writing)

42 credits

Required Courses24 credits

41345 Creative Writing Workshop I (3)

41445 Creative Writing Workshop II (3)

41446 Creative Writing Workshop III (3)

41447 Creative Writing Workshop IV (3)

Two of the following:

41301 English Literature I (3)

41302 English Literature II (3)

41303 English Literature III (3)

Two of the following:

41331 American Literature I (3)

41332 American Literature II (3)

41333 American Literature III (3)

Electives18 credits

Six courses offered by the English Department, of which at least four must be at the 400 or 500 level and at least five must be in Literature. Elective courses by advisement only.

English

(Creative Writing for the Theatre)

51 credits

This option is open to students who have demonstrated a command of written English by the achievement of grades "B" or better in two freshman English courses or by publication of their work in other than a school or college journal and who have an interest in writing for the theatre.

Required Courses18 credits

41200 Analysis and Interpretation of Literature (3)

41301 English Literature I (3)

41302 English Literature II (3)

41331 American Literature I (3)

41332 American Literature II (3)

One of the following:

41406 Shakespeare I (3)

41407 Shakespeare II (3)

Required Elective Courses.24 credits

Eight courses in English/Theatre Arts, of which at least 4 must be at the 400 level, are to be chosen from the list below with the approval of the department advisor.

41343 Literature and Western Culture (3)

41345 Creative Writing I (3)

41406 Shakespeare I (3)

41407 Shakespeare II (3)

41420 Literary Criticism (3)

41423 Major Trends in 20th-Century Criticism (3)

41445 Creative Writing II (3)

41446 Creative Writing III (3)

91231 Acting I (3)

91321 Theatre History I (3)

91322 Theatre History II (3)

91323 World Drama I (3)

91324 World Drama II (3)

91325 Playmaking (3)

91420 American Musical Theatre (3)

91441 Directing I (3)

Elective Courses9 credits*Three courses must be elected from the following:*

41447 Creative Writing Workshop IV (3)*

41506 English Drama to the Jacobean Period (3)

41511 Restoration and 18th-Century Drama (3)

91424 Contemporary Theatre (3)

91442 Directing II (3)

91493 Advanced Playwriting (3)*

* Creative Writing Workshop IV or Advanced Playwriting requires an independent thesis, consisting of a one-act play that has a public performance or reading.

Minor**English**

18 credits

Required Courses9 credits*One of the following:*

41406 Shakespeare I (3)

41407 Shakespeare II (3)

Any two of the following:

41200 Analysis and Interpretation of Literature (3)

41301 English Literature I (3)

41302 English Literature II (3)

- 41303 English Literature III (3)
 41331 American Literature I (3)
 41332 American Literature II (3)
 41333 American Literature III (3)

Three Elective courses in English9 credits

With the approval of the department advisor, two at the 400 or 500 level. Not more than one of these may be a non-literature course.

Creative Writing for Non-English Majors

18 credits

Required Courses9 credits

- 41345 Creative Writing Workshop I (3)
 41445 Creative Writing Workshop II (3)
 41446 Creative Writing Workshop III (3)

Elective Courses9 credits

Any three courses from the following:

- 41301 English Literature I (3)
 41302 English Literature II (3)
 41303 English Literature III (3)
 41331 American Literature I (3)
 41332 American Literature II (3)
 41333 American Literature III (3)
 41447 Creative Writing Workshop IV (3)

Creative Writing for L.A. English Majors

12 credits

Required Courses

(None of these courses may be used simultaneously to fulfill the requirements in the major.)

- 41345 Creative Writing Workshop I (3)
 41445 Creative Writing Workshop II (3)
 41446 Creative Writing Workshop III (3)
 41447 Creative Writing Workshop IV (3)

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Freshman English Courses

Normally, students must complete the College composition requirement during their freshman year. See "Undergraduate Academic Policies and Regulations" in this catalog.

41020 Preparatory Writing I (3)

Fundamentals of correct writing for students with certain deficiencies in their written expression. Required of some new students on the basis of placement examination and open only to them. Does not fulfill the College's freshman English requirement, and credits earned do not count toward graduation.

41030 Preparatory Writing II (4)

Continuation of 41020. Open only to students who have completed 41020 or by permission of the chair. Does not fulfill the College's freshman English requirement, and credits earned do not count toward graduation.

41160 Freshman Composition 1 (3)

Training in effective composition and correct writing. Readings. Discussions about writing techniques. Papers

assigned to develop particular techniques. A first-semester freshman English course.

41180 Freshman Composition 2 (3)

Training in effective composition and correct writing. Readings. Discussions about writing techniques. Papers assigned to develop particular techniques. Prerequisite: One Composition I course.

41186 Composition II: Women (3)

Training in effective composition and correct writing. Reading and writing about women in both fiction and non-fiction as well as in poetry and drama. Prerequisite: One Composition I course.

Other Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

41200 Analysis and Interpretation of Literature (3)

Introduction to close reading of literature, including prose and poetry.

41205 General Honors English I (3)

A writing course based on thematically related readings in literature, the arts, and sciences designed for intellectually curious and industrious students who have demonstrated writing proficiency. May be substituted for Freshman Composition I. Prerequisite: PC.

41206 General Honors English II (3)

A writing course based on thematically related readings in literature, the arts, and sciences. Designed for intellectually curious and industrious students who have demonstrated writing proficiency. May be substituted for Freshman Composition II. Prerequisite: PC.

41207 Intermediate Composition (3)

This course follows Freshman Composition 1 and 2 and is designed to prepare students for college writing assignments in various disciplines. More broadly, Intermediate Composition offers students opportunities to enhance their critical reading, writing and thinking skills, particularly the abilities to analyze, synthesize, interpret and evaluate data. Prerequisite: Two freshman English courses.

41210 Great Books (Western) (3)

Examination of Great Books which have shaped cultures and values, or represent ways of life in the Western tradition in classical, medieval, and modern times, such as Iliad, Aeneid, Bible, Divine Comedy, Prince, Don Quixote, Faust. Prerequisite/corequisite: English Composition I.

41211 Great Books (Asian Classics) (3)

Examination of Great Books of India, China, and Japan which have shaped cultures and values or represent ways of life in Asian traditions in classical, medieval, and modern times, such as: Mahabharata, Upanishads, Tripitaka, Analects, Tao Teh Ching, Genji, and Monkey. Prerequisite/corequisite: English Composition I.

41224 Expository Writing (3)

Intensive practice and guidance in the technique of expository prose, with emphasis on clarity and logic; reading of selected essays; class discussion of student writing. Prerequisite: Two freshman English courses.

41226 Practical Grammar (3)

Traditional grammar of good English: of contemporary, standard American writing for effective, graceful style; grammatical categories (e.g., verb, verb phrase) and grammatical functions (e.g., subject, complement) and kinds of sentences. Prerequisite: One freshman English course or concurrent.

41254 Modern Asian Literature (3)

Selected Asian great books that represent values and themes which have become popular in America or which bear upon problems of value in contemporary life.

41255 Contemporary Issues and Literature (3)

Examination of such themes as love, war, parent-child relationships in works by contemporary American writers: e.g., Plath, Morrison, Gordon, Bellow, O'Brien, Lowell, Rich, Baldwin, Vonnegut, and Walker. Readings include novels, short stories, poetry, and drama.

41301 English Literature I: From Beowulf to 1600 (3)

Representative works from the medieval and Renaissance periods. Prerequisite: Two freshman English courses.

41302 English Literature II: 1600-1789 (3)

Representative works from the seventeenth and eighteenth centuries. Prerequisite: Two freshman English courses.

41303 English Literature III: 1789 to the Present (3)

Representative works from the nineteenth and twentieth centuries. Prerequisite: Two freshman English courses.

41305 Science Fiction (3)

Study of the genre from Verne and Wells to the present. Selected works from each period of science fiction. The pioneers, Verne and Wells; the space operas of the 1920s and 1930s; the technological interests of the 1940s and 1950s; the sociological interests of the 1950s and 1960s; and the stylistic interests of the New Wave. Prerequisite: Two freshman English courses.

41306 Modern Fantasy (3)

Study of the genre from the Grimms to the present. Selected works from each period. Romantics and Victorians, pulp writers, and the renaissance after Tolkien. Prerequisite: Two Freshman English courses.

41307 The Novel (3)

The novel as a genre through reading of both contemporary and classic novels selected by the instructor. Prerequisite: Two freshman English courses.

41308 Studies in the Short Story (3)

The short story as genre through reading of both contemporary and classic stories. Prerequisite: Two freshman English courses.

41309 American Humor (3)

American humorists from Mark Twain to Woody Allen, including such authors as S.J. Perelman, Ogden Nash, James Thurber, Dick Gregory, Elaine May, Dorothy Parker plus occasional comparisons with British humorists. Prerequisite: Two freshman English courses.

41310 Studies in Drama (3)

An introduction to drama as a literary genre through reading of both contemporary and classic plays. Prerequisite: Two freshman English courses.

41323 Women in Literature: A Contemporary View (3)

Women's experience viewed through selected literary works (novels, poems, plays, etc.) from past and present. Discussion of literature as art and as a window on the history of women. Prerequisite: Two freshman English courses.

41324 Women in Twentieth-Century Literature (3)

A literature and women's studies course. The most significant writing by and about women in the twentieth century. Fiction, biography and poetry. Prerequisite: Two freshman English courses.

41331 American Literature I (3)

American writers of the eighteenth century and first half of the nineteenth century, such as Edwards, Franklin, Irving, Cooper, Bryant, Emerson, Hawthorne, Poe, Thoreau, Melville. Prerequisite: Two freshman English courses.

41332 American Literature II (3)

Important American writers from 1865-1920, such as Whitman, Dickinson, Twain, Cather, Chopin, James, Crane, Norris, Dreiser. Prerequisite: Two freshman English courses.

41333 American Literature III (3)

American literature since World War I. Authors such as Fitzgerald, Hemingway, Faulkner, Eliot, Frost, Stevens, O'Neill, Williams, Miller. Prerequisite: Two freshman English courses.

41343 Literature and Western Culture (3)

Examines literary characters significant in Western life and thought, such as Prometheus, Oedipus, Faust, Don Quixote, and Ulysses. Authors such as Aeschylus, Sophocles, Marlowe, Shakespeare, Moliere, Goethe, Dostoyevsky, Lawrence, and Joyce. Prerequisite: Two freshman English courses.

41345 Creative Writing Workshop I (3)

Practice in creative writing (fiction and/or poetry). Free writing as well as set exercises in various forms. Prerequisite: Two freshman English courses.

41346 Myth, Symbol, and Fable in Literature (3)

The nature of myth, symbol, and fable in literature, both classical and modern, including an inquiry into the psychology of imagination expressed through these literary devices in selected works. General approach to literature. Prerequisite: Two freshman English courses.

41355 The Bible (3)

The Bible as a record of the spiritual and intellectual history of the Hebrew-Christian tradition, including myth, legend, law, history, political and moral thought, philosophy, and poetry. Prerequisite: Two freshman English courses.

41356 Greek and Roman Literature (3)

Greek and Roman authors who formed the basis of the Western literary tradition. Selections from works of such authors as: Homer, Aeschylus, Sophocles, Euripides, Aristophanes, Plato, Virgil, Horace, Catullus, Ovid. Prerequisite: Two freshman English courses.

41358 Shakespeare Our Contemporary (3)

A study of selected, representative plays by William Shakespeare. Some emphasis on Shakespeare's impact on stage, films, and popular literature. May not be counted toward an English major.

41361 European Literature (3)

A survey of great books of European literature: such works as Dante's *Divine Comedy*, Boccaccio's *Decameron*, Machiavelli's *The Prince*, Voltaire's *Candide*, Goethe's *Faust*, and novels by Stendhal, Flaubert, Tolstoy, Dostoyevsky, and Mann. The works are read in English translations. Prerequisite: Two freshman English courses.

41385 Theories of Writing (3)

Introduction to the most important and influential modern theories of writing. Emphasis is on the teaching of writing at all educational levels. Prerequisite: Two freshman English courses.

41404 Medieval Literature (3)

A survey of the representative literary genres of Medieval Europe with special reference to England. Prerequisite: 41301.

41405 Elizabethan Literature (3)

Important writers of poetry, prose, and drama (excluding Shakespeare) in the sixteenth and early seventeenth centuries: Spenser, Sidney, Marlowe, Shakespeare as poet, Jonson and Webster. Prerequisite: 41301.

41406 Shakespeare I: Selected Works (3)

Selected major plays and non-dramatic poetry. Richard III, Twelfth Night, Julius Caesar, Othello, Macbeth, All's Well that Ends Well, The Tempest, and the sonnets. May be taken after 41407 or concurrently. Prerequisite: Two freshman English courses.

41407 Shakespeare II: Selected Works (3)

Selected major plays and the narrative poems. Richard II, I Henry IV, As You Like It, Measure for Measure, Troilus and Cressida, Hamlet, and King Lear. May be taken before 41406 or concurrently. Prerequisite: Two freshman English courses.

41408 Seventeenth-Century Literature (3)

Leading English writers of poetry and prose in the seventeenth century, excluding Milton. Metaphysical and Cavalier poets and such prose authors as Browne, Burton, Bunyan, and Pepys. Prerequisite: 41302.

41413 Eighteenth-Century English Literature (3)

Readings from some of the following: Satirists, Swift, Gay, Pope; the first novelists, Defoe, Fielding, Sterne; biographers, Johnson, Boswell. Prerequisite: 41301 or 41302.

41414 The Rise of the Novel (3)

Growth of the middle class and the emphasis on individual experience in the eighteenth century that led to the development of a new literary genre: the novel. Readings in Defoe, Richardson, Fielding, Smollett, and Sterne. Prerequisite: 41302.

41415 Nineteenth-Century English Novel (3)

Emphasis on changing fictional techniques, conflict between the individual and society, and the representation of women in novels. Austen, Emily Bronte, Thackeray, Hardy, Gissing, among others. Prerequisite: 41303.

41417 The Romantics in England (3)

Social and artistic upheaval in the age of the French Revolution as reflected in the English poets and prose writers of the time: Wordsworth, Coleridge, Byron, Shelley, Keats, and others. Prerequisite: 41303.

41418 Victorian Literature (3)

Study of the literature of the age and its involvement with

religion, love, evolution, art, poverty, and politics. Arnold, Ruskin, Tennyson, Browning, Dickens, Hardy, Wilde, Yeats. Prerequisite: 41303.

41419 Twentieth-Century British Literature (3)

Major developments of the modernist, pre- and post-war, and contemporary periods, in the works of such authors as Yeats, Joyce, Woolf, Lawrence, Eliot, MacDiarmid, Auden, Spender, Greene, Durrell, Drabble, Thomas, Smith, Larkin, Hughes, and Hill. Prerequisite: Two freshman English courses.

41420 Literary Criticism (3)

Analysis of major statements by great critics from the Classical, Renaissance and Modern periods. Discussion of significant ideas dealing with literary creation, genre, principles of criticism, and standards of taste. Critics include Aristotle, Horace, Dryden, Johnson, Wordsworth, Coleridge, Arnold, etc. Prerequisite: Two literature courses.

41423 Major Trends in Twentieth-Century Criticism (3)

Literary theory in the twentieth century, such as the New Critical, Neo-Aristotelian, Archetypal, Marxist, Psychoanalytic, Deconstructive, Feminist, Reader-response, and New Historicist. Prerequisite: Two of the following: 41301, 41302, 41303, 41331, 41332, 41333.

41425 The Epic Tradition (3)

The epic and saga as they have evolved from myth and legend. Archetypal culture heroes; heroic action; cosmology. Prerequisite: Two freshman English courses.

41426 The Twentieth-Century British Novel (3)

British novelists of the twentieth century, such as, Conrad, Ford, Maugham, Forster, Woolf, Joyce, and Lawrence. Prerequisite: 41303.

41427 Contemporary Literature from 1945 (3)

Readings in the major works of recent British and American poets and novelists. Prerequisite: 41301 or 41302 or 41303 or 41331 or 41332.

41436 Nineteenth-Century American Literature (3)

Important writers of America's formative years, the nineteenth century, from Irving and Poe to Twain, James and Dreiser, as well as significant minor authors. Prerequisite: 41331.

41439 Twentieth-Century American Novel (3)

Representative works by major American novelists of the twentieth century. Prerequisite: 41331.

41443 Fiction into Film (3)

The complex interrelationships between novels and short stories and the movies derived from them. Consideration of the uniqueness of each art form with study of the techniques they share: Plot, structure, character development, symbolism, etc. Prerequisite: Two freshman English courses.

41445 Creative Writing Workshop II (3)

Students who show evidence of more than average ability in writing have an opportunity to work on individual assignments in the essay, short fiction, and verse. Two hours weekly and regular individual conferences. Prerequisite: 41345.

41446 Creative Writing Workshop III (3)

To help the motivated and talented writer continue with creative endeavors. The student concentrates on a specific genre, such as the short story, the poem or the novel. Prerequisite: 41445.

41447 Creative Writing Workshop IV (3)

To help the motivated and talented writer continue with creative endeavors. This course is a capstone to the creative writing sequence; majors are required to give a public reading of a selection of their work -- short story, poetry, one-act play, or section of a novel. Prerequisite: 41446.

41450 Seminar in Poetry (3)

Analysis of individual poems and discussions of poetic genres. Prerequisite: Junior or senior and two of the following: 41301, 41302, 41303, 41331, 41332, 41333.

41451 Senior Honors Seminar (3)

Research library methods in literature, organized around a selected topic with a few readings. Students construct individual projects for lengthy research papers for public performance. Prerequisite: Two of the following: 41301, 41302, 41303, 41331, 41332, 41333.

41472 D.H. Lawrence (3)

Major works in the novel, poetry, criticism. Lawrence as artist and as prophet. How profound is Lawrence's criticism of modern industrial society, war, Christianity, the sexual code? Does he speak to the present? Prerequisite: Two freshman English courses.

41474 Virginia Woolf (3)

Virginia Woolf's contribution to contemporary literature as novelist and critic. Novels, essays, and biographical studies of Woolf. Prerequisite: Any 200-level literature course.

Graduate Courses**41500 English Proseminar (3)**

A graduate-level introduction to research and literary analysis. The work of the course centers upon the writing of literary commentaries totaling ca. 40 pp. Required of all MA, MAT and MS candidates on admission to candidacy. Prerequisite: MA, MAT or MS English candidate.

41501 Introduction to Old English (3)

Old English as a language and readings in the original. Prerequisite: Graduate English major or PC.

41502 Introduction to Middle English (3)

Middle English as a language and readings in the original. Prerequisite: Graduate English major or PC.

41503 Chaucer (3)

Language and literary art of Chaucer, life and thought of medieval England; emphasis on the *Canterbury Tales*. Prerequisite: Graduate English major or PC.

41504 English Literature of the Sixteenth Century (3)

Selected prose and poetry of the English Renaissance, including works of such figures as Spenser, Sidney, Wyatt, Surrey, Nashe, Green, and Dekker. Prerequisite: Graduate English major or PC.

41505 Shakespeare (3)

Extensive study of Shakespeare's works. Not open to students who have taken 41406 and 41407 or equivalent. Prerequisite: Graduate standing or PC.

41506 English Drama through the Jacobean Period (3)

Medieval drama and later playwrights such as Kyd, Marlowe, Jonson, Webster, Chapman, Beaumont, and Fletcher. Prerequisite: Graduate standing or PC.

41507 English Literature of the Seventeenth Century (3)

Leading English writers of poetry and prose in the seventeenth century, excluding Milton. Metaphysical and Cavalier poets and such prose authors as Browne, Burton, Bunyan, and Pepys. Prerequisite: Graduate standing or PC.

41508 Milton (3)

Milton's major poetical works and selected minor poems and prose works in relation to his time and seventeenth-century thought. Prerequisite: Graduate standing or PC.

41509 Eighteenth-Century English Literature (3)

Historical survey of poets, satirists, and essayists: Dryden, Swift, Pope, Addison, Johnson, Gray, Burns, and others. Some background philosophy. No novels or drama. Prerequisite: Graduate standing or PC.

41510 Early English Novels (3)

Great pioneers of the novel: Defoe, Richardson, Fielding, Smollett, and Sterne. Not open to students who have taken 41414. Prerequisite: Graduate standing or PC.

41511 Restoration and Eighteenth-Century English Drama (3)

Playwrights such as Dryden, Otway, Etharage, Wycherley, Congreve, Farquhar, Gay, Lillo, Goldsmith, and Sheridan. Prerequisite: Graduate standing or PC.

41513 Female Heroes of Fiction: Nineteenth Century (3)

A feminist critical study of female heroism in selected American and British nineteenth-century novels. Authors will include Bronte, Hawthorne, George Eliot, Hardy, James, Wharton, Chopin, Dreiser. Prerequisite: Graduate standing or PC.

41514 Female Heroes of Fiction: Twentieth-Century (3)

A feminist critical study of female heroism in selected American and British twentieth-century novels. Authors will include Lawrence, Woolf, Hemingway, McCullers, Steinbeck, Lessing, Atwood, Godwin. Prerequisite: Graduate standing or PC.

41515 Modern Theories of Writing (3)

A general introduction to developments in writing theory and instruction including such topics as the composing process, cognition and writing, invention and revision strategies, discourse theory, alternative approaches to teaching grammar and style. (Especially suitable for students planning to teach.) Prerequisite: Admission to either MA or MS program in English required or PI. Not applicable to the MA degree. Required for teaching assistants.

41517 English Romantic Literature (3)

Major writers of the English romantic movement and related critical and historical works. Not open to students who have taken 41417. Prerequisite: Graduate standing or PC.

41518 The English Novel of the Nineteenth Century (3)

Major British novelists of the nineteenth century studied in the context of the whole English novel and European fiction of the nineteenth century. Prerequisite: Graduate standing or PC.

41519 English Literature of the Victorian Period (3)

Poetry, fiction, and non-fiction works of the Victorian period. Such figures as Browning, Tennyson, Arnold, Swinburne, Dickens, Thackeray, Carlyle, and Ruskin. Prerequisite: Graduate standing or PC.

41521 Modern British Drama (3)

Playwrights such as Wilde, Shaw, Galsworthy, Maugham, Barrie, Synge, O'Casey, Osborne, and Pinter. Prerequisite: Graduate standing or PC.

41522 British Literature of the Twentieth Century to 1945 (3)

British novelists and poets of the first half of the twentieth century: Conrad, Joyce, Forster, Woolf, Lawrence, Yeats, Eliot, Graves, and others. Prerequisite: Graduate English major or PC.

41523 Joyce (3)

Joyce's major works, in the light of their structural, linguistic, and thematic innovations. Prerequisite: Graduate standing or PC.

41524 Virginia Woolf (3)

Virginia Woolf produced innovative, influential work in many genres: stories, novels, non-fiction, criticism, biography. We explore these and use her *Diary* to document her life as a writer. Prerequisite: Graduate English major or PC.

41525 Contemporary British and American Literature Since 1945 (3)

Investigation of the emerging themes in prose and poetry since World War II. Prerequisite: Graduate English major or PC.

41527 The Development of Modern English (3)

History of English from earliest times to the present. Major changes in sounds, grammar, and vocabulary. Development of dialectal variants and standards of correctness, with special reference to American English and current problems of usage. Prerequisite: Graduate standing or PC.

41529 Ballad Revivals (3)

The ballad as a special form of literature in light of two dramatic revivals of interest in the genre: the eighteenth century (Addison, Percy, Burns, Scott) and the twentieth (Kipling, Housman, Yeats, Warren, and the contemporary folksingers). Prerequisite: Graduate standing or PC.

41532 The American Renaissance (3)

Research in such figures as Emerson, Thoreau, Hawthorne, Whitman, and Melville, and in movements such as utopianism, transcendentalism, and abolitionism. Prerequisite: Graduate English major or PC.

41533 American Fiction in the Nineteenth Century (3)

Major works in prose fiction from Irving and Poe to Howells and James. Prerequisite: Graduate English major or PC.

41534 American Poetry in the Nineteenth Century (3)

Works of major poets in America before and after the Civil War: Emerson, Poe, Whitman, and Dickinson, among others. Prerequisite: Graduate English major or PC.

41535 Realism and Naturalism in American Fiction (3)

Selected works by such writers as Howells, Twain, James, London, Dreiser, Farrell, Jeffers, and Dos Passos. Prerequisite: Graduate English major or PC.

41536 American Fiction in the Twentieth Century to 1945 (3)

Study of important American novelists, 1900-1945, including the work of major novelists such as Faulkner, Hemingway, Fitzgerald and Warren. Prerequisite: Graduate English major or PC.

41537 American Poetry in the Twentieth Century to 1945 (3)

Reading of the principal American poets at home and abroad in the period up to 1945: Eliot, Frost, Cummings, Pound, and Auden, among others. Prerequisite: Graduate English major or PC.

41538 Modern American Drama (3)

Playwrights such as O'Neill, Anderson, Howard, Behrman, Sherwood, Odets, Wilder, Miller, Williams, Albee. Prerequisite: Graduate standing or PC.

41550 Literary Criticism (3)

Major theories of the nature and functions of literary art, from ancient to modern times. Prerequisite: Graduate standing or PC.

41555 Twentieth-Century Literary Criticism (3)

A study of major twentieth-century theories of literature, such as those of Marxist and psychoanalytical critics, the New Critics, the Chicago school, the theories of Northrop Frye, Feminism, and Deconstruction. In-depth consideration of primary critical works. Prerequisite: Graduate standing or PC.

41556 Literature and Lore of the Catskill Mountains and the Hudson Valley (3)

Introduces the student to the fundamental ideas of regional studies (sense of place, etc.) through the study of prose, poetry, and folklore of the Hudson Valley and Catskill Mountain Region. Prerequisite: Graduate standing or PC.

41572 Studies in Middle English Literature (3)

Prerequisite: 41502 and 41503, and PC.

41573 Studies in Sixteenth-Century English Literature (3)

Prerequisite: 41405 or 41504, and PC.

41574 Studies in Shakespeare (3)

Prerequisite: 41406 or 41407 or 41505, and PC.

41575 Studies in Seventeenth-Century English Literature (3)

Prerequisite: 41409 or 41410 or 41507 or 41508, and PC.

41576 Studies in Eighteenth-Century English Literature (3)

Prerequisite: 41413/41414 and 41509/41510, and PC.

41577 Studies in English Romanticism (3)

Prerequisite: 41417 or 41517, and PC.

41578 Studies in Victorian Literature (3)

Prerequisite: 41418 or 41519, and PC.

41579 Studies in Nineteenth-Century American Literature (3)

Prerequisite: 41436 or 41532 or 41533 or 41534, and PC.

41580 Studies in Twentieth-Century American Poetry to 1945 (3)

Prerequisite: 41333 or 41537, and PC.

41581 Studies in Twentieth-Century American Fiction to 1945 (3)

Prerequisite: 41333 or 41535 or 41536, and PC.

41582 Studies in Twentieth-Century British Poetry to 1945 (3)

Prerequisite: 41450 or 41522, and PC.

41583 Studies in Twentieth-Century British Fiction (3)

Prerequisite: 41426 or 41522 or 41525, and PC.

41584 Studies in Contemporary British Literature (3)

Prerequisite: 41427 or 41450 or 41525, and PC.

41585 Studies in Contemporary Criticism (3)

Prerequisite: 41423 or 41550 or equivalent, and PC.

41586 Studies in Contemporary American Literature (3)

Prerequisite: 41427 or 41538, and PC.

41587 Studies in Contemporary British and American Drama (3)

Prerequisite: 41427 or 41521 or 41538, and PC.

41588 Studies in Comparative Literature (3)

Prerequisite: At least two courses in a foreign literature or a reading knowledge of foreign language, and PC.

41590 Thesis in English (3)

Writing of a thesis under guidance of the major professor. Required form available in the Records and Registration Office. Prerequisite: MA in English degree students and PC. Corequisite: "Studies-in" course in same field as thesis.

Environmental Science

The solution to environmental problems often requires information and expertise from several disciplines. To address complex environmental issues, scientists are at a distinct advantage if they have familiarity with appropriate areas in the social sciences. Conversely, for individuals with formal training in the social sciences or the humanities to effectively address environmental issues, they should have knowledge of appropriate scientific principles.

Majors that address environmental issues include biology, chemistry, geography and geology.

A minor is offered in Environmental Science. It provides science and non-science majors with the opportunity to broaden their knowledge in areas of natural science and social science germane to environmental issues. The requirements for the Environmental Science Minor differ for science and non-science majors.

Minor

A total of 6 courses must be completed from the following two categories by all students:

Science/Technical12-20 credits

Select four courses, at least two of which will NOT be used to satisfy requirements for the major:

15340	Ecology (4)
15513	Conservation of Natural Resources (3)
15561	Endangered Species (3)
15593	Wetlands Ecology (4)
22303	Introduction to Analytical Chemistry (5)
22318	Organic Chemistry I (5)
22319	Organic Chemistry II (5)
22509	Spectrometric Identification of Organic Compounds (3)
48381	Basic Cartography (4)
48382	Remote Sensing (5)
483XX	Introduction to Geographic Information Systems (3)

50339	Natural Resources and Energy (3)
50346	Conservation and Environmental Impact (3)
50533	Analysis of Soils and Sediments (3)

Policy/Politics/Planning6 credits

Select two courses:

33304	Public Finance (3)
33305	State & Local Public Finance (3)
48410	Regional Planning and Development (3)
48526	Urban Planning (3)
77301	State Politics (3)
77310	Public Management (3)
77316	American Public Policies (3)
77318	Local Politics (3)
87423	Social Policy (3)

Non-Science Majors

Students not majoring in one of the four sciences (Biology, Chemistry, Geology, Physics) or in a companion 7-12 Education program must also take:

Two of the following:

15210	Introductory Biology (4)
22201	General Chemistry I (4)
50220	Physical Geology (4)

AND

One of the following:

64241	Introduction to Statistics (3)
64245	Basic Calculus (4)

These three courses add an additional requirement of 11 credits for non-science majors. These 11 credits are required for non-science majors in addition to the Science/Technical requirement of 12-20 credits and the Policy/Politics/Planning requirement of 6 credits.

The three additional courses are not intended to be prerequisites for the courses in either the Science/Technical or Policy/Politics/Planning areas. All Science/Technical and Policy/Politics/Planning are at the 300 level and above. Most of them have prerequisites, which must be considered when a student undertakes the Environmental Science Minor.

It is strongly recommended that students consult with Professor Alvin Konigsberg, Coordinator of Environmental Science and/or an advisor in their major department as early as possible in their course planning.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Upper-Division Designation

The Environmental Science Minor has been designed as an advanced upper-division program. As such, all of the courses in it are at the 300 level or above and count toward the upper-division credit requirement.

Foreign Languages

Professors:

Peter D.G. Brown, Ph.D., Columbia (German)
 Marleigh Grayer Ryan, Ph.D., Columbia (Japanese)
 Robert V. Piluso, Ph.D., New York University (Spanish)
 Henry Urbanski, Ph.D., New York University (Russian)

Associate Professors:

Elisa Davila (Chair), Ph.D., California-Santa Barbara (Spanish)
 Wilma Feliciano, Ph.D., SUNY-Albany (Spanish)
 Louis Saraceno, Doctor en Filosofía y Letras, Seville (Spanish)

Assistant Professors:

Victor Aboulaffia, Ph.D., Cornell (French)
 Sandrine Harismendy-Lony, M.A., California-Santa Barbara (French)
 David Labiosa, Ph.D., University of Michigan-Ann Arbor (Comparative Literature)
 Rafael Saavedra-Hernandez, Ph.D., SUNY-Albany (Spanish)
 Giancarlo Traverso, Ph.D., Fordham (Italian)

The Department of Foreign Languages offers undergraduate and graduate instruction. Liberal arts majors are available in French, German, and Spanish. A major in foreign languages with concentration in French, German, or Spanish is available for students in elementary education (Pre-K-3 and K-6), and majors in French, German and Spanish are available in secondary education (7-12). Undergraduate majors in liberal arts and secondary education require at least 33 credits above the intermediate level. Minors are offered in French, German, Italian, Russian and Spanish.

Instruction is regularly offered in Chinese, Hebrew, Italian, Japanese, Latin, and Russian and as circumstances permit in Yiddish. A number of courses in the literature and culture of France, Germany, Italy, Japan, Latin America, Russia, and Spain are offered in English.

All language courses must be taken proceeding from lower to higher level.

Immersion Programs

The Language Immersion Institute offers a several popular two-week Language Immersion Programs each summer, as well as a series of weekend sessions during the academic year and in the summer. Students may earn one credit during each weekend session or three credits for each summer two-week session. Both weekend and summer Immersion Programs offer intensive language instruction at various levels of difficulty. The languages offered include Arabic, Chinese, Czech, Dutch, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Polish, Portuguese, Russian, Spanish, Swedish, Ukrainian and Yiddish. Consult the Language Immersion Institute office for a detailed schedule of Immersion Programs.

Honor Societies

A chapter of Phi Sigma Iota, the national foreign language honor society, was established in 1988. Each year, outstanding eligible undergraduates of New Paltz are invited to join the society.

A chapter of Sigma Delta Pi, the national Hispanic honor society, was established in 1987. Each year, outstanding eligible undergraduates of New Paltz are invited to join the society.

Liberal Arts Designation

All courses offered by the Department of Foreign Languages count toward the liberal arts requirement.

Language Laboratory

Language Laboratory (0)

Use of audio- and video-recorded foreign language materials for intensive practice in understanding and speaking; offered in most foreign languages. Use of computer assisted instruction. Prerequisite: Concurrent enrollment in a foreign language course at the elementary or intermediate level, or permission of laboratory director.

Chinese

See "Asian Studies" for information on minor and contract majors.

Undergraduate Courses

23101, 23102 Elementary Chinese I, II (4 each)

Introduction to reading, writing, and speaking Mandarin Chinese. Open only to students who do not speak any Chinese language. Written permission of the instructor is required in order to register. Prerequisite: PI.

23201, 23202 Intermediate Chinese I, II (4 each)

Further practice in reading, writing, and speaking Mandarin Chinese for students who have completed 23102. Written permission of the instructor is required in order to register. Prerequisite: PI.

French

A major program is offered in French language and literature for students in liberal arts or elementary and secondary education programs. Students are admitted to the major upon completion of intermediate French or placement. A minor in French is also available.

Paris Summer Program, France

In cooperation with the Department of Foreign Languages, the Office of International Education offers a five-week summer program in Paris for undergraduate and graduate students and for teachers of French. The program centers upon active instruction in language, literature and culture. Formal instruction is augmented by field trips, excursions, movies and visits to museums in order to provide a first-hand knowledge of French civilization. There is also free time for travel.

Overseas Academic Year in Besançon, France

An academic year program is also offered at the University of Besançon (Center for Applied Linguistics and the Faculty of Letters) to qualified undergraduate and graduate students. Students will be able to select from a wide variety of courses in French language, literature, culture, civilization and social sciences.

Major**French**

36-48 credits

Basic Language Courses12 credits

46101	Elementary French I (3)
46102	Elementary French II (3)
46201	Intermediate French I (3)
46202	Intermediate French II (3)

Students with prior training or experience in French may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department.

Required Courses24 credits*All of the following:*

46301	French Composition and Conversation I (3)
46302	French Composition and Conversation II (3)
46313	French Literature I (3)
46314	French Literature II (3)
46416	French Literature III (3)
46319	French Civilization (3)
46404	Daily Life in France (3)

One of the following:

46401	Advanced French Composition/Conversation I (3)
46402	Advanced French Composition/Conversation II (3)

Electives12 credits

Each major candidate is required to complete, by advisement, 4 courses in French at the 400 level or equivalent.

Minor**French**

Each minor candidate is expected to complete, by advisement, 15 credits beyond intermediate French. At least 9 credits must be at the 300 level or above.

Undergraduate Courses**46101, 46102 Elementary French I, II (3 each)**

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking, and reading. Language laboratory required. Students with knowledge of French may be allowed to begin with 46102.

46201, 46202 Intermediate French I, II (3 each)

Continuation of 46102 with further training in the language skills, review of grammatical material, and additional reading of articles, poems, stories or plays. Language laboratory required. Prerequisite: 46102 or placement.

46301 French Composition and Conversation I (3)

Intensive practice in free composition and conversation, emphasizing functional grammar and vocabulary building. Conducted in French. 46301 and 46302 may be taken separately and in either sequence. Prerequisite: 46202 or PC.

46302 French Composition and Conversation II (3)

Intensive practice in free composition and conversation, emphasizing functional grammar and vocabulary building. Conducted in French. 46301 and 46302 may be taken separately and in either sequence. Prerequisite: 46202 or PC.

46313 French Literature I (3)

Survey of French literature from its origins through the sixteenth century. Prerequisite: One 300-level French course or PC.

46314 French Literature II (3)

Survey of French literature from the seventeenth century through the eighteenth century. Prerequisite: One 300-level French course or PC.

46319 French Civilization (3)

Analysis of the most significant aspects and trends of French civilization. Conducted in French. Prerequisite: One 300-level French course or PI.

46401 Advanced French Composition and Conversation I (3)

Intensive practice in spoken and written French. Study of the variants of style and selected problems in vocabulary and syntax. Conducted in French. 46401 and 46402 may be taken separately and in either sequence. Prerequisite: 46301 or 46302.

46402 Advanced French Composition and Conversation II (3)

Intensive practice in written and spoken French. Study of variants of style and selected problems in vocabulary and syntax. Conducted in French. 46401 and 46402 may be taken separately and in either sequence. Prerequisite: 46301 or 46302.

46404 Daily Life in France (3)

Cross-cultural analysis of selected elements of daily life in modern French society. Conducted in French. Prerequisite: One 300-level French course or PI.

46413 French Classical Drama (3)

Critical study of the theatre of Corneille, Racine and Moliere. Conducted in French. Prerequisite: 46313 or PC.

46416 French Literature III (3)

Works of the foremost French novelists, playwrights, and poets from Hugo to Sartre, against the background of social changes, evolution of literary tendencies, and artistic and historical developments. Conducted in French. Prerequisite: 46314 or PC.

46417 Twentieth-Century French Novel (3)

The 20th-century novel in France, from Gide to Camus, Sartre and post-war novelists. Conducted in French. Prerequisite: One French literature course or PI.

Graduate Courses**46501, 46502 Intensive Practice in French I, II (3 each)**

Advanced study and practice in spoken and written French. Variants of style, and selected problems in vocabulary and syntax. Conducted in French. 46501 and 46502 may be taken separately and in either sequence. Prerequisite: 46401 or PI.

46503 Explication de Texte (3)

Analytic study of literature. Exercises in the interpretation of selected texts. Prerequisite: Eighteen credits above 46201 or PI.

46505 Seminar in Modern French Literature (3)

Intensive study of a topic, genre or author of the contemporary period. Conducted in French. Prerequisite: Eighteen credits above 46201 or PI.

46507 Nineteenth-Century French Literature I (3)

Intensive study of a topic, genre, or author of the period. Conducted in French. Prerequisite: Eighteen credits above 46201 or PI.

46509 Eighteenth-Century French Literature I (3)

Intensive study of a topic, genre, or author of the period. Conducted in French. Prerequisite: Eighteen credits above 46201 or PI.

46511 Seventeenth-Century French Literature I (3)

Intensive study of a topic, genre, or author of the period. Conducted in French. Prerequisite: Eighteen credits above 46201 or PI.

German

A major in German language and literature is available for students in liberal arts or elementary and secondary education.

A knowledge of German is an invaluable tool for anyone seriously studying the history of our civilization with its social triumphs, its holocausts, and its enduring achievements in music, philosophy, literature, and the fine arts. Numerous other fields, from modern physics to psychology, were pioneered by German minds and continue to receive valuable contributions from Germany, Austria, and Switzerland. Germany plays an increasingly important role in the European Union. Thus, German will continue to be an important language for industry and commerce in the foreseeable future.

Summer Program in Hamburg/Stade, Germany

In cooperation with the Department of Foreign Languages, the Office of International Education offers a seven-week intensive program in Hamburg/Stade for undergraduate and graduate students. They may select from a variety of courses in German language (intermediate to advanced levels), fieldwork in German culture and civilization, modern German literature, and independent study. There is also opportunity for individual travel.

Major

German

35-45 credits

Basic Language Courses12 credits

52101	Elementary German I (3)
52102	Elementary German II (3)
52201	Intermediate German I (3)
52202	Intermediate German II (3)

Students with prior training or experience in German may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Languages Department.

Required Courses21-35 credits

One of the following:

52211	German Composition and Conversation I (3)
52315	Advanced German [summer in Germany] (3)

One of the following:

52312	German Composition and Conversation II (3)
52401	Advanced German Composition [summer in Germany] (3)

One of the following:

52314	Contemporary German Civilization [summer in Germany] (3)
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58311	Modern Germany [History Department] (3)
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All of the following:

52316	Germany Today (3)
52406	Modern German Fiction (3)
52409	Nineteenth-Century German Plays (3)

Electives12 credits

Each major candidate is required to complete, by advisement, five courses (15 credits) at the 300 or 400 level in German or in cognate areas with a substantial German component. Such cognate areas include Art History, History, Music, Philosophy, Political Science and Sociology.

Minor

German

Each candidate for a minor is expected to complete, by advisement, 15 credits in German courses at the 300 or 400 level.

Undergraduate Courses

52101, 52102 Elementary German I, II (4 each)

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking and reading. Language laboratory required. Students with knowledge of German will be placed according to their proficiency.

52201, 52202 Intermediate German I, II (3 each)

Continuation of 52102 with further training in the language skills, review of grammatical material, and additional reading of articles, poems, stories or plays. Language laboratory required. Prerequisite: 52102 or placement.

52307 Introduction to German Literature I (3)

Significant selections (poems, plays, stories, and novels) from about 1830 to 1980 are analyzed. Conducted in German. Prerequisite: One course above 52201.

52311 German Composition and Conversation I (3)

Intensive practice in conversation and free composition with emphasis on functional grammar and vocabulary building. Prerequisite: 52201 or placement.

52312 German Composition and Conversation II (3)

Continuation of 52311. Prerequisite: 52311 or placement.

52313 Readings in Contemporary German (3)

Selected readings in natural and social sciences, philosophy and the arts. Grammatical structures will be reviewed with special attention to those most characteristic of expository prose. Prerequisite: 52201.

52314 Contemporary German Civilization (3)

Analysis of the most significant characteristics of the contemporary culture and civilization of Austria, Germany, and Switzerland. Conducted in German. Prerequisite: 52202 or placement.

52316 Germany Today (3)

A close look at contemporary social, political, economic, environmental and cultural issues in Germany following the

unforeseen opening of the Berlin Wall and subsequent reunification in 1990.

52317 Classic German Literature in English (3)

Extra-marital sex, suicide and mental instability appear with startling frequency as prime topics in classic German literature of the later 18th century. Writers include the Storm and Stress playwrights in addition to Goethe, Schiller, Kleist, Buchner, Schnitzler and Wedekind. Readings and classes conducted in English. Prerequisite: Two Freshman English courses.

52318 20th Century German Literature in English (3)

Under the long shadows cast by the horrors of two World Wars, the Holocaust, and Chernobyl, German literature focuses on the individual's struggle for liberation and self-fulfillment. Readings include fiction and drama of Kafka, Mann, Hesse, Brecht, Frisch, Weiss and Wolf. All readings and classes are conducted in English.

52401 Advanced German Composition (3) In Germany.

Advanced study in German. Variants of style and selected problems in vocabulary and syntax. Conducted in German. Prerequisite: 52311 and one 300-level course.

52403 History of German Civilization (3) In Germany.

Readings on the political and cultural development of Austria, Germany, and Switzerland from the Middle Ages through the twentieth century. Conducted in German. Prerequisite: Two courses above 52201.

52406 Modern German Fiction (3)

Significant twentieth-century German short stories and novels. Emphasis on Kafka, Mann, and Hesse. Conducted in German. Prerequisite: 52307.

52409 Nineteenth-Century German Plays (3)

Significant German plays by Kleist, Buechner, Grillparzer, Hebbel, and others. Conducted in German. Prerequisite: 52307.

Graduate Courses

52501, 52502 Intensive Practice in German I, II (3 each)

Advanced study and practice in spoken and written German. Variants of style, and selected problems in vocabulary and syntax. Conducted in German. May be taken separately and in either sequence. Prerequisite: Undergraduate German major or PI.

Hebrew

Instruction is offered in Hebrew, but there is no major program. Students may wish to study Hebrew for personal interest or in relation to a degree program in a field such as history, political science, or Middle Eastern studies. Study at a leading Israeli university for a semester or a year can be arranged.

Undergraduate Courses

56101 Elementary Hebrew I (3)

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking, and reading. Language laboratory optional. Students with previous knowledge of Hebrew may be allowed to begin with 56102.

56102 Elementary Hebrew II (3)

Fundamental speech patterns with emphasis on aural comprehension, speaking, and reading. Language laboratory optional. Prerequisite: 56101 or placement.

56201 Intermediate Hebrew (3)

Continuation of 56102 with further training in the language skills to provide a firm basis for an active command of Hebrew. Language laboratory optional. Prerequisite: 56102 or placement.

56205 The Jewish Experience (3)

An introduction to Jewish civilization, and the social, ethnic and spiritual dimensions of the Jewish people. Topics include: Jewish calendar and festival cycle; customs of the Jewish life-cycle; theology; sacred literature; anti-semitism.

Italian

Students may take courses in Italian for personal interest or in relation to a degree program in such fields as art, business, literature, history, music and philosophy. There is presently no major program in Italian.

Italian Studies

The Italian Studies program offers a 21-credit interdisciplinary minor for students seeking a comprehensive understanding of Italy and its many contributions to western civilization. To students of Italian descent it serves also to provide a better appreciation of themselves and of their heritage.

However, a contract major in Italian can be individually designed in consultation with the Coordinator of the Italian Studies program. The major would consist of 30 credits.

The coordinator for the Italian Studies program is Giancarlo Traverso (Department of Foreign Languages).

Minor

Italian Studies

21-33 credits

Required Courses 9-21 credits

Basic language courses (not counting toward minor):

- 59101 Elementary Italian I (3)
- 59102 Elementary Italian II (3)
- 59201 Intermediate Italian I (3)
- 59202 Intermediate Italian II (3)

NOTE: Students with prior training or experience in Italian may obtain waivers for one or more of the basic language courses listed above, after consultation with the Department of Foreign Languages.

Three courses from the following:

- 59261 Italian Society in Film (in English) (4)
- 59301 Italian Composition and Conversation (3)
- 59331 Italian Literature in English I (3)
- 59332 Italian Literature in English II (3)
- 59375 Italian Cinema (4)
- 59441 Modern Italian Literature (in Italian) (3)
- 59495 Independent Study (2-4)

Electives12 credits

Four courses taken under advisement from the Departments of Art History, English, History, Music and Philosophy. Other departments from time to time teach courses that relate to Italian Studies. See the program coordinator.

Programs in Italy

A six-week summer program in Italian is offered in Urbino, in cooperation with the Office of International Education. The program includes courses in Italian language, literature and culture. Latin language courses may also be available.

An academic-year program is available at the University of Urbino to qualified undergraduate students having at least two years of college-level Italian. Italian universities normally teach only year-long courses.

Undergraduate Courses**59101, 59102 Elementary Italian I, II (3 each)**

Beginning study of the language based on the principles of audiolingual learning; presents basic structure and vocabulary emphasizing the language as heard and spoken as the first step towards the student's progressing to the skills of reading and writing. Students with knowledge of Italian may be allowed to begin with 59102. Prerequisite for 59102: 59101 or placement.

59201, 59202 Intermediate Italian I, II (3 each)

Understanding and speaking Italian through conversational practice, grammar review, varied readings, and written exercises. Prerequisite: 59102 or placement.

59261 Italian Society in Film (4)

Understanding contemporary Italy through its films. Conducted in English.

59301 Italian Composition and Conversation (3)

Composition and conversation based on themes suggested by readings and by topics of current events. Prerequisite: 59202 or placement.

59331 Italian Literature in English I (3)

Study of the most important writers of the Middle Ages and Renaissance. Emphasis on works of Dante, Petrarch, Boccaccio, Machiavelli, Castiglione, Ariosto, and Tasso. Prerequisite: Two freshman English courses.

59332 Italian Literature in English II (3)

Study of the most important representative writers from the seventeenth to the twentieth century. Emphasis on works of Goldoni, Foscolo, Leopardi, Manzoni, Verga, Pirandello, Vittorini, Pavese, Silone, and Moravia. Prerequisite: Two freshman English courses.

59375 Italian Cinema (4)

Evolution of Italian cinema from its origins to the present. Lecture, class discussion and viewing of representative films. In English. All films are in Italian with English subtitles. Prerequisite: Two freshman English courses.

59441 Modern Italian Literature (3)

Readings and discussions of works of major 20th-century Italian authors in the light of political, intellectual and social conditions of modern Italy. Conducted in Italian. Prerequisite: 59301 or PI.

Japanese

See "Asian Studies" for information on minor and contract major.

Undergraduate Courses**57101, 57102 Elementary Japanese I, II (4 each)**

Introductory program stressing communication and understanding of present day Tokyo Japanese. The written syllabaries will be taught in 57101; Chinese characters will be added in 57102. Class meets six hours a week. Language laboratory required. Students with previous training will be placed in 57102 or higher. Prerequisite for 57102: 57101 or placement.

57201, 57202 Intermediate Japanese I, II (4 each)

Intensive practice in contemporary spoken Tokyo Japanese and in reading and writing Japanese orthography. Prerequisite for 57201: 57102 or placement; for 57202: 57201 or placement.

57300 Beauty in Japan (3)

An exploration of the Japanese sense of beauty as expressed in traditional literature and art.

57310 Japanese Poetry (3)

Using English translations, the study of early Court poetry, medieval Imperial anthologies, poetic diaries, Noh theatre, Bunraku puppet theatre, and 20th-century poetry. Prerequisite: Two freshman English courses.

57311 Japanese Fiction (3)

Analysis of the characteristics of Japanese narrative through a study of major classical and modern works in English translation. Prerequisite: Two freshman English courses.

57320 Asian Americans (3)

An exploration of the lives of the more than seven million Americans who trace their origins to China, Japan, Korea, the Philippines, Southeast Asia, and the South Asian sub-continent.

KiSwahili**Undergraduate Courses****55101 Elementary KiSwahili I (3)**

An introduction to the KiSwahili language spoken widely in East Africa. The primary objectives of the course are to assist students in listening to, understanding, speaking, reading and writing in KiSwahili. KiSwahili I focuses on the phonetic structure, pronunciation, vocabulary, the noun classes, imperatives and tenses.

55102 Elementary KiSwahili II (3)

The second half of an introduction to the KiSwahili language spoken widely in East Africa. The primary objectives of the course are to assist student in gaining further skill in speaking, reading and writing KiSwahili; and to encourage enough fluency in the language and enough understanding of KiSwahili speaking cultures for students to be able to function in African countries where the language is spoken. KiSwahili II focuses on expanding use of the vocabulary, the eight noun

classes, imperatives, tenses and conjugation of verbs.
Prerequisite: 55101 or placement.

55201 Intermediate Kiswahili (3)

Continuation of 55102 Elementary Kiswahili II with further training in oral and written communication skills.
Prerequisite: 55102 or placement.

Latin

Instruction is offered in Latin, but there is no major program in Latin. Students may take these courses for personal interest or to support studies in a major program in another area.

Undergraduate Courses

60101, 60102 Elementary Latin I, II (3 each)

Fundamental principles of Latin syntax with emphasis on learning to read Latin. Students with knowledge of Latin may be allowed to begin with 60102. Prerequisite for 60102: 60101 or placement.

60201 Intermediate Latin (3)

Review of principles of Latin syntax. Intensive readings in Cicero and other prose writers. Prerequisite: 60102 or placement.

Russian

Instruction is offered in the Russian language and interdisciplinary minors in Russian studies and in Russian language and literature are available. Students may study Russian for personal interest or in relation to a major in a field such as economics, history, political science or international relations. There is no major program in Russian.

The minors in Russian studies and Russian language and literature are designed to provide the student with an understanding of Russian and Soviet culture and civilization. A basic knowledge of Russian language, literature, and history is provided by the required courses. Electives may be taken under advisement in economics, political science, and geography, as well as history and literature. Students are encouraged to participate in the College's unique summer program in Russia to further their awareness of Russian life and culture. These programs will prepare interested students for careers related to some aspect of Russian-American political, cultural, and economic relations.

Minors

Russian Studies

18 credits

Required Courses6 credits

- 58332 History of Russia 1796-1917 (3)
- 58333 Soviet Union (3)

Four of the Following12 credits

- 58333 Soviet Union (3)
- 84273 Russian Culture (3)
- 84366 Russian Civilization (3)

- 84371 Russian Literature in Translation I (3)
- 84374 Russian Literature in Translation II (3)
- 77503 Soviet Government (3)

OR

Selected topics in Russian by advisement.

Russian Language and Literature

15-27 credits

Each minor candidate is expected to complete, by advisement, 15 credits beyond the intermediate level.

Required Courses12 credits

- 84101 Elementary Russian I (3)
 - 84102 Elementary Russian II (3)
 - 84201 Intermediate Russian I (3)
 - 84202 Intermediate Russian II (3)
- or the equivalent. Students with prior training or experience in Russian may obtain waivers for one or more of the basic language courses listed above, after consultation with the Department of Foreign Languages.

The 15 credits above the intermediate level are broken down as follows:

In Russian Language6 credits

Two courses are to be taken from among the following:

- 84301 Russian Composition and Conversation I (3)
- 84302 Russian Composition and Conversation II (3)
- 84361 Modern Russian Grammar (3)
- 84363 Readings in Modern Russian I (3)
- 84364 Readings in Modern Russian II (3)

In Russian Culture3 credits

One course to be taken from the following:

- 84366 Russian Civilization (3)
- 84373 Russian Culture (3)

OR

Selected topics by advisement.

In Russian Literature6 credits

Two courses to be taken from among the following:

- 84367 Russian Literature I (3)
- 84368 Russian Literature II (3)
- 84371 Russian Literature in English (3)
- 84374 Soviet Literature in English (3)
- 84467 Dostoevsky (3)
- 84468 Tolstoy (3)

OR

Selected topics by advisement.

Undergraduate Courses

84101, 84102 Elementary Russian I, II (3 each)

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking and reading. Language laboratory required. Students with knowledge of Russian may be allowed to begin with 84102. Prerequisite for 84102: 84101 or placement.

84201, 84202 Intermediate Russian I, II (3 each)

Continuation of 84102 with further training in the language skills, review of grammatical material, and additional reading of articles, poems, stories or plays. Language laboratory required. Prerequisite: 84102 or placement.

84301 Russian Composition and Conversation I (3)

Intensive practice in conversation and free composition. Functional grammar and vocabulary building. Prerequisite: 84202 or placement.

84302 Russian Composition and Conversation II (3)

Continuation of 84301. Prerequisite: 84301.

84361 Modern Russian Grammar (3)

Survey of morphology and syntax of modern standard Russian. Prerequisite: 84202 or Placement.

84363, 84364 Readings in Modern Russian I, II (3 each)

Development of ability to read Russian of moderate difficulty from selections of technical and popular periodicals, newspapers, and short prose works. Conducted in Russian. Prerequisite: 84202 or placement.

84366 Russian Civilization (3)

Significant ideas and institutions in the development of Russian civilization from earliest time to the present; geography, peoples, culture, social, political, and religious institutions, the impact of Westernization and the Revolution of 1917.

84367 Russian Literature I (3)

Readings and discussion of selected masterpieces of the nineteenth century. Conducted in Russian. Prerequisite: 84302.

84368 Russian Literature II (3)

Reading and discussion of representative works of the twentieth century. Conducted in Russian. Prerequisite: 84302.

84371 Russian Literature in English (3)

Selected masterpieces in English translation of Russian literature to the Revolution of 1917. Authors considered include: Pushkin, Lermontov, Gogol, Turgenev, Tolstoy, Chekhov, and Dostoevsky.

84373 Russian Culture (3)

Contemporary Russian life: study of the values, attitudes and habits of the Russian people.

84374 Soviet Literature in English (3)

Reading and discussion of representative works of the twentieth century in English translation. Authors include: Gorky, Blok, Mayakovsky, Sholokhov, Yevtushenko, Voznesensky, and Solzhenitsyn.

84467 Dostoevsky (3)

Major works of Dostoevsky. Conducted in Russian. Prerequisite: 84367 or PI.

Spanish

An academic major is offered in Spanish language and literature for students in liberal arts or elementary and secondary education programs. A student is admitted to the major upon completion of intermediate Spanish or placement.

Summer Program in Oviedo, Spain

In cooperation with the Department of Foreign Languages and the University of Oviedo, the Office of International Education offers an intensive program at the University of Oviedo for undergraduate and graduate students and teachers

of Spanish (elementary and secondary). The program includes active instruction in language, phonetics, history, culture and literature. Formal instruction will be augmented by seminars, field trips, movies, plays, and public lectures. Students will have the final ten days free to travel at their own expense.

Academic Year Program in Seville, Spain

In cooperation with the Department of Foreign Languages, the Office of International Education offers an academic-year program at the University of Seville to qualified undergraduate and graduate students. Spanish majors will be able to select from a wide variety of courses in Spanish language, literature, culture, civilization and social sciences. Courses in other languages and disciplines may also be taken. Non-majors may attend if they are fluent in Spanish. Prerequisite: Spanish 89361.

Major

Spanish

33-45 credits

Required Courses24-36 credits*Basic Language courses:*

- 89101 Elementary Spanish I (3)
- 89102 Elementary Spanish II (3)
- 89201 Intermediate Spanish I (3)
- 89202 Intermediate Spanish II (3)

Students with prior training or experience in Spanish may obtain waivers for one or more of the basic language courses listed above, after consultation with the Foreign Language Department. Native speakers may substitute courses for native speakers for the above.

- 89301 Spanish Composition/Conversation I (3)
- 89361 Spanish Composition/Conversation II (3)
- 89365 Culture of Spain I (3)
- 89372 Culture of Latin America I (3)

One of the following:

- 89367 Spanish Literature I (3)
- 89368 Spanish Literature II (3)

One of the following:

- 89369 Spanish-American Literature I (3)
- 89370 Spanish-American Literature II (3)

One of the following:

- 89363 Spanish Phonetics and Oral Practice (3)
- 89461 Advanced Spanish Composition (3)

One of the following:

- 89468 Literature of the Golden Age-Prose (3)
- 89469 Literature of the Golden Age-Drama and Poetry (3)
- 89470 Generation of 1898 (3)
- 89471 Spanish-American Novel (3)

Electives9 credits

Each major is required to complete by advisement 3 courses in Spanish at the 400 or 500 level.

Minor

Spanish

18 credits

Each minor candidate is expected to complete, by advisement, 18 credits beyond the intermediate level in at least two of three areas of language, literature and culture.

Undergraduate Courses

89101, 89102 Elementary Spanish I, II (3 each)

Beginning course. Fundamental speech patterns with emphasis on aural comprehension, speaking, and reading. Language laboratory required. Students with knowledge of Spanish may be allowed to begin with 89102. Prerequisite for 89102: 89101 or placement.

89111, 89112 Elementary Spanish for Native Speakers I, II (3 each)

A basic course in Spanish for U.S. born or raised Hispanos who, whether they speak some Spanish or not, have never been introduced to a formal study of the language. Introduce grammatical concepts and terminology which emphasize reading and writing skills, and focus on areas of interference between English and Spanish. Prerequisites: for 89111, placement; for 89112, 89111 or placement.

89201, 89202 Intermediate Spanish I, II (3 each)

Continuation of 89102 with further training in language skills, review of grammatical material, and additional reading of articles, poems, stories or plays. Language laboratory required. Prerequisite: 89102 or placement.

89213, 89214 Intermediate Spanish for Native Speakers I, II (3 each)

An intensive review of Spanish orthography, grammar and syntax with emphasis on the standard variety of Spanish, contrasting and differentiating it from English grammar and other Spanish regional varieties. Special attention to the development of reading and writing skills, vocabulary enhancement and oral expository skills. Prerequisites: for 89213, 89112 or placement; for 89214, 89213 or placement.

89301 Spanish Composition and Conversation I (3)

Composition and conversation based on everyday topics, or on Hispanic themes suggested by readings. Variants of idiom and style. Prerequisite: 89201 or placement.

89361 Spanish Composition and Conversation II (3)

This course is a continuation of 89301. Prerequisite: 89301.

89363 Spanish Phonetics and Oral Practice (3)

Study and practice of Spanish phonetics for non-native speakers who have acquired basic skills in the language. Goal is improvement of sound patterns, pronunciation and articulation through discrimination, practice and internalization exercises. Prerequisite: 89202 or placement.

89365 The Culture of Spain I (3)

Cultural and historical evolution of Spain from the prehistoric to the 15th century. Prerequisite: 89361.

89367 Spanish Literature I (3)

Outstanding works from the Middle Ages through the seventeenth century. Conducted in Spanish. Prerequisite: One course above 89202.

89368 Spanish Literature II (3)

The most important aspects of Spanish literature from the eighteenth century to the present day. Conducted in Spanish. Prerequisite: One course above 89202.

89369 Spanish-American Literature I (3)

Survey of Spanish-American literature from the colonial period until 1888. Conducted in Spanish. Prerequisite: One course above 89361.

89370 Spanish-American Literature II (3)

Survey of Spanish-American literature from Modernism to the present. Conducted in Spanish. Prerequisite: One course above 89361.

89372 Culture of Latin America I (3)

Distinctive cultural and historical traits of Latin America from pre-Columbian times to the end of the 19th century. Conducted in Spanish. Prerequisite: 89361.

89461 Advanced Spanish Composition (3)

Intensive practice in written Spanish. Variants of style and selected problems in vocabulary and syntax. Conducted in Spanish. Prerequisite: 89361.

89466 Intensive Readings in Modern Spanish Literature (3)

Selected works of nineteenth and twentieth century. Spanish authors analyzed. Individual assignments and class reports in Spanish. Prerequisite: 89368.

89468 Intensive Readings in the Literature of the Golden Age-Prose (3)

Selected masterpieces of the Siglo de Oro analyzed. Individual assignments and class reports in Spanish. Emphasis on prose writings. Prerequisite: 89367.

89469 Intensive Readings in the Literature of the Golden Age Drama & Poetry (3)

Continuation of 89468. Theatre and poetry. Conducted in Spanish. Prerequisite: 89367.

89470 The Generation of 1898 (3)

Writings of the Generation of 1898 in relation to socio-political and other aspects of the contemporary Spanish scene. Conducted in Spanish. Prerequisite: 89368.

89471 The Spanish-American Novel (3)

Analysis of Spanish-American novels as interpretations of Spanish-American life. Conducted in Spanish. Prerequisite: 89369.

89473 Modern Latin American Drama (3)

Analysis of literary and theatrical elements of drama: examine plot, character, themes, language; then, stage resources: setting, mood, gestures to understand unique qualities of dramatic genre. Conducted in Spanish. Prerequisite: 89366 or 89369 or 89370.

Graduate Courses

89561, 89562 Intensive Practice in Spanish I, II (3 each)

Offers advanced study and practice in spoken and written Spanish. Variants of old style, and selected problems in vocabulary and syntax. Conducted in Spanish. 89561 and 89562 may be taken separately and in either sequence. Prerequisite: Undergraduate Spanish major or PI.

89565 Spanish-American Poetry (3)

Poetry of Spanish-American authors from various periods. Conducted in Spanish. Prerequisite: 89369 or PI.

89567 Approaches to Spanish-American Culture (3)

The cultural contents of language, arts, and the ways of life in Latin-American countries. Prerequisite: 89366 or PI.

89573 Seminar in Spanish Literature I (3)

Intensive study of a topic to be announced. Conducted in Spanish. Prerequisite: Eighteen credits above 89201 or PI.

89575 Seminar in Spanish-American Literature I (3)

Intensive study of a topic to be announced. Conducted in Spanish. Prerequisite: Eighteen credits above 89201 or PI.

89578 Cervantes (3)

Critical analysis of the "Don Quixote," and of other works by Cervantes. Conducted in Spanish. Prerequisite: Eighteen credits above 89201 or PI.

Geography

Professors:

Ronald G. Knapp (Chair), Ph.D., Pittsburgh
George A. Schnell, Ph.D., Pennsylvania State

Associate Professors:

Linda Greenow, Ph.D., Syracuse
Joan Mano, Ph.D., Columbia

Assistant Professor:

Mark Wiljanen, Ph.D., Wisconsin

The Department of Geography offers a comprehensive major within the liberal arts curriculum designed to prepare students for graduate study in geography or for employment in fields actively seeking geographers. The department also offers an emphasis in planning for students who wish to undertake graduate study in planning or to obtain employment in that field. A Geographic Information System (GIS) sequence is offered in addition to courses in Cartography and Remote Sensing.

For those majoring in other fields, a minor in Geography is available, and the department offers a minor in Geography for Business Administration and economics majors.

Additionally, the department cooperates in various programs, such as Business Administration with an emphasis in Planning and Regional Affairs, Environmental Science, Asian Studies, Latin American Studies and Urban Studies. Students in the elementary education curriculum (Pre-K-3 or Pre-K-6) may major in geography; students in secondary education (social studies) may select geography as an option. The department also offers courses designed to permit graduate students majoring in secondary social studies to concentrate in geography as their liberal arts field.

To complement the academic program, the department offers an internship at several public and private agencies in the region, such as the New York State Department of Environmental Conservation and Mid-Hudson Pattern. One semester long, the internship offers students the opportunity to gain practical, on-site experience at a planning, development, or environmental protection agency.

Majors

Geography

41-44 credits

Required Courses13 credits

- 48252 Economic Geography (3)
- 48273 Basic Physical Geography (3)

- 48274 Environment and Culture (3)
- 48381 Basic Cartography (4)

Required Cognate Courses7-8 credits

- 64241 Introductory Statistics (3)
- OR
- 80275 Psychological Statistics (3)
- AND
- Either of the Following:
- 15340 Ecology (4)
- OR
- 50220 Physical Geology (4)

Electives21-23 credits

Each major candidate is required to complete 7 elective courses in geography, at least 4 of which must be systematic courses.

Systematic courses:

- 48250 Maps & Graphics: Measures & Symbols (3)
- 48382 Remote Sensing (5)
- 48401 Geography of Cities and Suburbs (3)
- 48405 Political Geography (3)
- 48406 Natural Resources: Utilization and Management (3)
- 48410 Regional Planning and Development (3)
- 48412 Location Analysis in Business and Industry (3)
- 48480 Internship in Geography (9)*
- 48481 Internship seminar (3)*
- 48526 Urban Planning (3)
- 48541 Geography of American Cities and Suburbs (3)
- 48551 Environmental Conservation (3)
- 48560 Problems of Population (3)

** The internship and corequisite seminar may only be taken with the chair's permission and after the major has been completed or nearly so.*

Regional courses:

- 48240 World Geography (3)
- 48260 Understanding China (3)
- 48301 Geography of the United States (3)
- 48307 Understanding Latin America (3)
- 48506 Contemporary China (3)
- 48510 Land and People of Latin America (3)
- 48536 Geography of New York State (3)

Geography

(Emphasis in Planning)

55-58 credits

Required Courses25 credits

In addition to the four required courses listed for the regular geography major, students in this emphasis must take:

- 48401 Geography of Cities and Suburbs (3)
- 48560 Problems of Population (3)
- 48410 Regional Planning and Development (3)
- 48526 Urban Planning (3)

Cognate Courses21-23 credits

In addition to the four cognate courses listed for the regular geography major, students in this emphasis must take 3 of the following courses:

- 33304 Public Finance (3)
- 33422 Urban Economic Problems (3)
- 58304 Development of the American City (3)
- 77310 Public Management (3)
- 77316 American Public Policies (3)
- 77318 Local Politics (3)
- 87345 Cities and Suburbs (3)

Electives **9-10 credits**
 Three courses at the 300 or 400 level selected with advisement from the list of Systematic and Regional courses in geography.

In addition, although not required, students in the planning emphasis are encouraged to devote a semester to the Internship in Geography (48480) and the corequisite Internship Seminar (48481), both of which may be taken after the major has been completed or nearly so.

Minors

Geography
 18 credits

Required Courses **.9 credits**
 48252 Economic Geography (3)
 48273 Basic Physical Geography (3)
 48274 Environment and Culture (3)

Electives **.9 credits**
 Three geography courses at the 300 or 400 level selected with advisement.

Geography
 For Business Administration Majors
 18 credits

Required Courses* **.12 credits**
 48252 Economic Geography (3)
 48406 Natural Resources: Utilization & Management (3)
 48412 Location Analysis in Business & Industry (3)
Either:
 48273 Basic Physical Geography (3)
OR
 48274 Environment and Culture (3)

Electives **.6 credits**
 One of the following:
 48410 Regional Planning and Development (3)
 48560 Problems of Population (3)
One from among:
 48301 Geography of the United States (3)
 48307 Understanding Latin America (3)
 48506 Contemporary China (3)
 48520 Land and People of Latin America (3)

* Each candidate will be required to carry on individual research in the upper-division courses.

Liberal Arts Designation
 All courses count toward the liberal arts requirements.

Undergraduate Courses
 In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

48240 World Geography (3)
 A study of world patterns of physical environments, cultural regions, and economic development, followed by a focus on specific regions from among the following: Latin America, Africa, Asia and/or the Middle East.

48250 Maps & Graphics: Measures & Symbols (3)
 Introduces the methods and practice of the collection, interpretation and processing of graphic and numeric data to analyze and illustrate relationships using quantitative measures and symbols. Prerequisite: "C-" in 64050 or MPL 3.

48252 Economic Geography (3)
 Geographical factors and interpretive theories related to patterns of population density, economic development, international trade, and economic production.

48260 Understanding China (3)
 This course describes and evaluates recent social and economic patterns in China. Viewing these patterns from a geographic perspective highlights the process of socialist transformation.

48273 Basic Physical Geography (3)
 Selected aspects of the physical environment and their relationships to humankind. Emphasis on study of maps, weather, and regional climatology.

48274 Environment and Culture (3)
 An analysis of the distribution and character of interrelationships between humankind and the environment, including such topics as origin and dispersal of technology, livelihood patterns, and urbanization.

48301 Geography of the United States (3)
 Geographical patterns of the natural, economic, social and political features as they interrelate to form the regions of North America. Prerequisite: One geography course or PI.

48307 Understanding Latin America (3)
 Synthesis of the physical, cultural, and economic realities in Latin America.

48381 Basic Cartography (4)
 History and principles of map-making, projections, scales, symbols, design, and mapping systems in relationship to effective presentation and communication of geographic data and analysis of spatial relationships. Computer applications are included. Lecture and laboratory.

48382 Remote Sensing (5)
 Principles, methods, techniques of remote sensing - including air photo interpretation and photogrammetry; their use in identification, analysis, and management of physical, cultural, and economic resources, application to geography and related physical and social sciences. Computer applications are included. Prerequisite: 48273 and 48381 or PI.

48401 Geography of Cities and Suburbs (3)
 Form and function of cities in terms of distribution, location, and development, through the use of appropriate theories and cases selected from the United States and abroad. Prerequisite: One geography course or PI.

48405 Political Geography (3)
 Analysis of the causes and consequences of the geographical patterns of political phenomena, with emphasis on nations and states. General principles will be illustrated by case studies. Prerequisite: One geography course or PI.

48406 Natural Resources: Utilization and Management (3)
 Distribution, use, and management of natural resources as they affect economic development in both the historical and present sense. Prerequisite: One geography course or PI.

48410 Regional Planning and Development (3)

Study of different planning processes to reduce regional disparities of development to realize hitherto undeveloped potentialities of regions. Case studies selected from regional development projects in the U.S., Canada, Europe, Africa, and Asia. Prerequisite: 48252 or PI.

48412 Location Analysis in Business and Industry (3)

Analysis of the concepts, methods, and data sources which are used to make locational decisions at the international, regional, and local levels. Prerequisite: 48252 or 20325, or PI.

48480 Internship in Geography (9)

Opportunity for students to gain experience related to the geography curriculum. Work as an intern in one of the agencies cooperating in this program. These governmental and private agencies are involved in planning and environmental concerns. Content of the course varies with the interest of the student and the nature and needs of the cooperating agency. Prerequisite: PC. Corequisite: 48481.

48481 Internship Seminar (3)

Academic complement to 48480. Interns and faculty meet to relate concepts of academic discipline to internship experience. Prerequisite: PC. Corequisite: 48480.

Graduate Courses**48501 Geography for Teachers (3)**

Basic concepts about the physical environment and the geographic relationships between the Earth and its human occupants. Prerequisite: Teaching certificate.

48506 Contemporary China (3)

Examination and analysis of the recent transformation of China's landscape emphasizing physical, economic, and social changes. Prerequisite: One geography course or PI.

48510 The Land and People of Latin American (3)

Analysis of contemporary Latin American problems of land and people examined from a geographical point of view. Prerequisite: One course on Latin America or PI.

48526 Urban Planning (3)

An introduction to the history, theory and practice of Urban Planning in the United States. This course includes current issues in land use, natural resources, housing, zoning, transportation and innovative planning techniques. Field research encouraged.

48536 The Geography of New York State (3)

Analysis of the physical and cultural bases of the development of New York State. Focus on ecological, demographic, and socio-economic patterns, with emphasis on the Mid-Hudson region. Prerequisite: One geography course or PI.

48541 Geography of American Cities and Suburbs (3)

Among the most dramatic, controversial, and significant trends in the human geography of the United States has been the decline of the central city and expansion of suburbs. The causes and consequences of these trends and some proposed remedies to alleviate those aspects perceived to be detrimental.

48551 Environmental Conservation (3)

Comparative analysis of the distribution, use, and interrelationships of the natural resources of the world. Efforts at conservation and public policies adopted in various nations are studied.

48560 Problems of Population (3)

Growth, expansion and pressure of population in the world, and contemporary problems of urban and suburban spread in the United States.

Geological Sciences**Professors:**

Gilbert J. Brenner, Ph.D., Pennsylvania State

Constantine Manos, Ph.D., Illinois

Martin S. Rutstein, Ph.D., Brown

Russell H. Waines, Ph.D., California-Berkeley

Associate Professors:

Alvin Konigsberg, Ph.D., Syracuse

Frederick W. Vollmer (Chair), Ph.D., Minnesota

"Civilization exists by geological consent - subject to change without notice."

-Will Durant

The Department of Geological Sciences offers instruction in the geological sciences at the undergraduate and graduate levels. Through formal courses, field work, and research projects, the students develop an awareness of the geological processes that shape our planet, and their impact on society and the environment. Undergraduate specializations are offered in General Geology, Environmental Geoscience, and Environmental Earth Science.

Elementary education, secondary education, and graduate teaching degrees with specializations in geology, environmental geoscience, and earth science are also offered; these programs are described under the School of Education listings. A minor in geology is available for those majoring in other fields.

Interdisciplinary in nature, the liberal arts degree in geology requires courses in geology and in cognate areas. The General Geology option is recommended for those contemplating graduate work in the geological sciences. For any of the geology programs, Geological Processes (50220) should be taken in the fall semester of the freshman year, followed by Historical Geology (50301) in the spring. General Chemistry (22201) and Calculus I (64251) should also be taken in the freshman year if possible.

Transfer students should complete as many of the cognate requirements as possible before entering New Paltz. Ideally, one year each of college chemistry, physics, and calculus should be completed in addition to a one year laboratory sequence in geology (physical and historical geology).

It is important that all students seek advising early on, so they can complete the major on time. Students should get their advisor's approval of elective courses selected "by advisement" before taking the courses. It is the students' responsibility to become familiar with the program requirements, and to work out the details of their program with the aid of their advisors. Additional advising information is available in the department office (WSB 202).

Students must earn a grade of "C-" or better in courses used for the Geology major and its cognates.

For non-majors interested in geology, Planet Earth (50100) and Evolving Earth (50110) are recommended as the year-long

non-major sequence in earth science without a laboratory. For students desiring laboratory work, or those considering a geology minor, the recommended sequence is Physical Geology (50220) followed by Historical Geology (50301).

Geology and Engineering

A cooperative program between New Paltz and the New Mexico Institute of Mining and Technology provides students with an opportunity to combine liberal arts study in geology with training in mining, petroleum, or geological engineering. Students who complete a designated program at New Paltz and two years at New Mexico will receive a Bachelor of Arts in geology from New Paltz and a Bachelor of Science from New Mexico in mining, petroleum, or geological engineering.

The requirements at New Paltz are: Physical Geology, Historical Geology, Mineralogy and Crystallography, Petrology, Paleontology, Optical Mineralogy, Stratigraphy-Sedimentation, Structural Geology, Field Geology, General Physics I and II, General Chemistry I and II, Calculus I, II, and III, Differential Equations, and computer programming. In addition, students must complete a year of Freshman English, a course in advanced writing, plus the College's General Education requirements.

This program is highly demanding and structured, so it is essential that interested students seek academic advising early in their undergraduate careers.

Honor's Research

Honor's Research is for students who wish to conduct a specialized research project at the undergraduate level. Students who plan on obtaining an M.A. or Ph.D. are advised to enroll in this course if they satisfy the prerequisites. Honor's Research is a very good means of letting the student, as well as faculty at New Paltz and other schools, identify whether or not he or she is suited for graduate work.

In order to enroll in Honor's Research (50491) a student must maintain a cumulative average of at least 3.00, and be recommended by a geology faculty sponsor and the department chair. Guidelines for research projects are available in the department office, and should be carefully read prior to meeting with the department chair to discuss the program.

Track I

General Geology

65-67 credits

Geology Core27 credits

50220	Physical Geology (4)
50301	Historical Geology (4)
50311	Mineralogy-Crystallography (4)
50313	Optical Mineralogy (3)
50314	Petrology (4)
50331	Stratigraphy-Sedimentation (4)
50338	Structural Geology (4)

Geological Science Courses14-16 credits

50305	Paleontology (4)
50435	Field Geology (4)*

Two 500-level geology courses by advisement

Cognate Courses23-24 credits

22201	General Chemistry I (4)
22202	General Chemistry II (4)
64251	Calculus I (4)
75201	General Physics I (4)
<i>One of the following by advisement:</i>	
64241	Introduction to Statistics (3)
64252	Calculus II (4)
<i>One of the following by advisement:</i>	
75202	General Physics II (4)
75222	Fundamental Physics II (4)

** 50435 may be replaced by approved summer field camp (recommended).*

Track II

Environmental Geoscience

65-68 credits

Geology Core27 credits

50120	Weather and Environment (4)
50205	Environmental Geology (3)
50220	Physical Geology (4)
50301	Historical Geology (4)
50311	Mineralogy-Crystallography (4)
50313	Optical Mineralogy (3)
50314	Petrology (4)
50331	Stratigraphy-Sedimentation (4)
50338	Structural Geology (4)

Geological Science Courses15-17 credits

<i>Four of the following by advisement:</i>	
50120	Weather and Environment (4)
50205	Environmental Geology (3)
50339	Natural Resources and Energy (3)
50346	Conservation and Environmental Impact (3)
50434	Environmental Surveying (3)
<i>One 500-level geology course by advisement</i>	

Cognate Courses23-24 credits

22201	General Chemistry I (4)
22202	General Chemistry II (4)
64251	Calculus I (4)
75221	Fundamental Physics I (4)*
75222	Fundamental Physics II (4)*
<i>One of the following by advisement:</i>	
64241	Introduction to Statistics (3)
64252	Calculus II (4)

** 75221 and 75222 may be replaced by 75201 and 75202 (recommended).*

Track III

Environmental Earth Science

62-64 credits

Geological Science Courses32-33 credits

50120	Weather and Environment (4)
50205	Environmental Geology (3)
50220	Physical Geology (4)
50301	Historical Geology (4)
50339	Natural Resources and Energy (3)
50346	Conservation and Environmental Impact (3)
<i>Two of the following by advisement:</i>	
50305	Paleontology (4)
50311	Mineralogy and Crystallography (4)

50331 Stratigraphy-Sedimentation (4)
One 300- or 400-level geology course by advisement

Cognate Courses30-31 credits

15210 Introductory Biology (4)
 15340 Ecology (4)
 22201 General Chemistry I (4)
 22202 General Chemistry II (4)
 25210 Introduction to Computing (4)
 75221 Fundamental Physics I (4)

One of the following:

12201 Exploring the Solar System (3)
 12202 Exploring the Universe (3)

One of the following by advisement:

64241 Introduction to Statistics (3)
 64251 Calculus I (4)

Minor

Geology

18 credits

Required Courses8 credits

50220 Physical Geology (4)
 50301 Historical Geology (4)

Elective Courses10 credits

A minimum of ten credits from any of the following:

Geology Courses

50305 Paleontology (4)
 50311 Mineralogy-Crystallography (4)
 50313 Optical Mineralogy (3)
 50314 Petrology (4)
 50331 Stratigraphy-Sedimentation (4)
 50338 Structural Geology (4)

Environmental Geoscience Courses

50120 Weather and Environment (4)
 50205 Environmental Geology (3)
 50339 Natural Resources and Energy (3)
 50346 Conservation and Environmental Impact (3)
 50434 Environmental Surveying (3)

The college also offers an Interdisciplinary minor in Environmental Science. See Index.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

50100 The Planet Earth (3)

Major events in the development of the earth from a primordial planet to its present-day appearance. Use of the scientific method to study past and present earthquakes, mountain-building processes, origin and evolution of life amid the background of the changing physical environment, continental drift and plate tectonics, and glaciations. Not open to students who have taken 50220. Recommended sequential course is 50110, The Evolving Earth.

50110 The Evolving Earth (3)

Evolution of the physical and biological past of the earth preceding and during human evolution. Present and future problems of the human scene are examined in the light of evolutionary patterns. Although designed as a sequence to 50100, The Planet Earth, the two courses may be taken independently of each other.

50120 Weather and Environment (4)

A non-mathematical introduction to the basic principles of weather and weather forecasting and their effect on man. Laboratory studies of weather maps and related charts.

50205 Environmental Geology (3)

The geological system as a framework for understanding environmental problems; man and his interactions with geological systems. Conservation, utilization, and management of natural resources. Field trips.

50220 Physical Geology (4)

Basic concepts of geology. Minerals, rocks, and rock-forming processes. Geologic time and age dating. Erosion, streams, groundwater, glaciers, geologic structures, earthquakes, plate tectonics, geologic and other geologic processes. Laboratory study of minerals, rocks and maps. Field trips. Recommended sequential course is 50301 Historical Geology.

50301 Historical Geology (4)

Geological and geographic developments of the continents throughout the earth's history, with emphasis on North America. Methods used in calculating the age of our planet, and interpreting the history of its rocks. Evolution of plants and animals through geologic time. In the laboratory, geologic maps and a few common fossils are studied. Local and regional field trips. Prerequisite: 50220.

50305 Paleontology (4)

Principles and methods in the study of fossils; morphology, classification and evolution, ecologic relationships between organisms and sedimentary systems, geographic distribution, and stratigraphic range. Field trips. Prerequisite: 50301 or 15210.

50311 Mineralogy and Crystallography (4)

Basic elements of solid internal and external crystallography and principles of crystal chemistry and geochemistry. Properties, occurrence, geochemistry, and hand specimen identification of the more common economic and rock-forming minerals. Field trips. Prerequisite: 22201 and 50220.

50313 Optical Mineralogy (3)

Theory of the transmission of polarized light through crystalline solids. Use of the polarizing microscope in mineral identification. Optical properties of the common rock-forming minerals. Corequisite: 50311.

50314 Petrology (4)

Study of the igneous, metamorphic and sedimentary rocks that form the solid earth. Rock composition, classification, distribution and origin. Volcanic, tectonic and other environments of rock formation. Phase diagrams, age dating, and rock chemistry. Laboratory microscope study of thin sections. Field trips. Prerequisite: 22202, 50311, 50313.

50331 Stratigraphy-Sedimentation (4)

Stratified rocks, their formation today as clues to the formation of similar rocks in the past, their local descriptions, their correlation in a regional and world-wide framework, and

the principles and methods used in interpreting the geologic history they record. Laboratory and field methods in the study of sedimentation, sedimentary rocks and stratigraphic successions found in outcrops. Field trips. Prerequisite: 50301 or 50305 and MPL 5.

50334 Principles of Oceanography (4)

The physical, chemical, geological, biological, and economic aspects of the science of oceanography; properties of seawater, ocean dynamics, coastal processes, marine sediments, sea-floor spreading, and continental drift, sea life fisheries, petroleum and the sea, marine technology, etc. Field trips. Laboratory.

50338 Structural Geology (4)

Study of the structure and deformation of the Earth's crust. Includes rock mechanics, faulting, folding, fabric, geometric analysis, diapirism, and tectonics. Laboratories cover geologic map interpretation, use of spherical projections, and field work. Field trips. Prerequisite: 50331 and MPL 5.

50339 Natural Resources and Energy (3)

Relation of the production of energy and its environmental impact on the finite nature of our natural resources. Review and critical evaluation of past, present, and future energy technologies.

50346 Conservation and Environmental Impact (3)

Study of the ways by which man's impact on nature and the environment is assessed and evaluated. Aspects of Environmental Impact Statements that are of significance to environmental geology, including air quality, meteorology, water quality, hydrogeology, land use, waste management, energy use and conservation. Prerequisite: 50205 recommended.

50434 Environmental Surveying Geology (3)

Field-oriented course, includes nonlegal surveying, basic principles and elementary methods; the use and application of plane table and transit surveying. Also, introduction to the application and use of topographic, geologic, and soils maps, and aerial photographs. Prerequisite: 50205, 50331, and MPL 5.

50435 Field Geology (4)

Problems and methods of geological field study. Use of the Brunton compass, plane table, alidade, the construction of a geologic map, the solving of a geologic field problem and the writing of a report. Primarily taught in the field. Prerequisite: 50338.

50481 Field Excursion (1-3)

Geology of a selected area of North America. Readings and discussions of the detailed tectonic and petrological evolution of selected classical geologic areas. Field excursions to type areas. May be repeated for credit provided listed topic changes.

50490 Seminar in Geology (2-4)

Current problems and projects in geology. Developing ability to evaluate evidence critically and to understand current geological literature. Prerequisite: PI.

50491 Honor's Research (4)

Individual advanced research in geology. Students are expected to complete a research thesis in consultation with instructor and chair. Prerequisite: 3.00 cumulative average and PC.

50492 Research in Geology (1-4)

Laboratory or field research project to be completed in consultation with a geology faculty member in accord with the department guidelines for research. Prerequisite: PI.

Graduate Courses

50501 Economic Geology (4)

Practical applications of geology. Origin and occurrence of metallic and nonmetallic mineral resources such as oil, coal, and uranium and their importance in the world's economy as "one-crop" deposits. Conservation of such valuable natural resources as oil and water. Field trips. Prerequisite: 50311 or PI.

50502 Geomorphology (4)

Fluvial, glacial, volcanic, eolian, and solutional landforms and their interpretation. Relationships of climate, weathering, mass wasting, soil development, rock types, and ground water to landscape. Geologic and geomorphic interpretation of topographic maps. Prerequisite: 50338 or PI.

50504 Geochemistry (4)

Geochemical knowledge and methods of geochemical research. Geochemistry of the lithosphere. Distribution and mobility of the elements in the earth, their relative abundance, migration, and mode of occurrence, and the geochemical structure of the earth. Detailed study of the applications of the principles of physical chemistry to selected geochemical problems. Prerequisite: 50314.

50505 Tectonics (3)

Origin and characteristics of the major structures of the earth's crust. Emphasis on plate tectonic theory, including the geometry and kinematics of plate motions, and the structural evolution of mountain belts, rifts, transcurrent fault zones and other regions of crustal deformation. Prerequisites: 50338 or PI.

50507 Introduction to Hydrogeology (4)

Hydrologic cycle, occurrence and movement of ground water, aquifer analysis and ground water hydrology. Water quality and pollution measurement and abatement. Nature of water supplies, ground water exploration, and conservation of ground water. Prerequisites: 50220 and 75201 or PI. 50335 recommended.

50519 Geophysics (3)

Introduction to concepts of geophysics and methods used to study earth; its internal structure. Earth temperatures, seismic waves, gravity, isostasy, and magnetism. Phenomena such as earthquakes, continental drift, sea floor spreading, and mountain building considered. Prerequisites: 50338 and 64252.

50533 Analysis of Soils and Sediments (3)

Studies of soils, unconsolidated and consolidated sediments. Investigations: soil pH, bulk density, porosity, soil moisture, beneficiation of acid soils by limestone treatment, particle size distribution. Mineral analyses by chemical stains, microscopy, and X-ray powder diffraction. Prerequisites: 50311 and 50331.

50535 Sedimentation (4)

Analysis of the mode of origin of the sedimentary rocks. Principles of sedimentary processes. Relation between sedimentary processes and the sediments found in the continental, eolian, marginal marine, shallow marine, and deep marine environments. Pertinent papers in the literature discussed. Prerequisites: 50311 and 50331 or PI.

50541 Geology and Geophysics of Petroleum (4)

Origin of petroleum and its mode of occurrence in Earth and the stratigraphic and structural problems involved in the

accumulation of petroleum. Principles used in geophysical exploration by the gravitational, magnetic, electric, seismic and radioactive methods. Prerequisites: 50338, and 75202.

50543 Principles of Sedimentary Petrology (3)

Petrology and classification of sedimentary rocks. Factors governing sediment dispersal, lithification and diagenesis. Mineralogy and texture of terrigenous clastic sediments as a reflection of possible source terrains. Carbonate petrology and petrography; consideration of limestone and dolostone textures as environmental indicators. Prerequisites: 50331.

50545 Advanced Igneous and Metamorphic Petrology (4)

Origin, classification, distribution and association of igneous and metamorphic rocks. Introduction to the use of microcomputers in petrology. Individual projects emphasizing advanced studies of rocks in thin section and/or computer analysis of petrogenesis. Prerequisites: 50314, 22202, 75201 or either PC or PI.

50575 Geology for Teachers (3)

Development of life on earth and geological processes that have shaped its surface: glaciation, erosion, mountain building; earth movements and volcanism. Study of minerals, rocks and a few common fossils. One or two field trips to inspect local geological features. Not open to students seeking a graduate degree in geology or earth science, or those who have taken 50220 or equivalent.

50578 Geology of New York State (3)

Principles, methods and knowledge from the science of geology pertinent to a study of the geologic history of the eastern United States. Emphasis on the development of New York State geology. Evolution of life as shown by the fossil record. Field trips. Not open to students seeking a graduate degree in geology or earth science. Prerequisite: 50220 or 50575.

50581 Regional Geology (1-3)

Geology of selected areas of North America. Readings and discussions of the detailed tectonic and petrological evolution of selected classical geological areas. Field excursions to type areas. May be repeated for credit provided listed topic changes. Prerequisites: Student is expected to have at least senior class standing in the geological sciences major; and PI.

50583 Computer Applications in Geology (3)

Use of computers in the geological sciences. Use of drafting, graphing, contouring, and other software. Basic theory of contouring, curve and surface fitting, least squares methods, data analysis, matrix manipulation, and equation solving. Prerequisite: 50220, "C-" in 64181 or MPL 5.

50585 Geology Seminar (3)

An integrated consideration of some current problems selected from the various branches of geology. Critical reading and evaluation of primary source materials. Prerequisite: Student is expected to have at least senior class standing in the geological sciences major.

50590 Thesis in Geology (1-3)

Research, writing and defense of a thesis under the guidance of the major professor. Required form available in the Records and Registration Office. Required each semester after thesis research project is begun. Prerequisite: Open to students specializing in the thesis field.

History

Distinguished Teaching Professor:

Gerald Sorin, Ph.D., Columbia

Professors:

Donald D'Elia, Ph.D., Pennsylvania State
Laurence Hauptman, Ph.D., New York University
Lloyd E. Lee (Chair), Ph.D., Cornell
Carole Levin, Ph.D., Tufts

Associate Professors:

Judah Adelson, Ph.D., New York University
David Krikun, Ph.D., Wisconsin
Richard A. Varbero, Ph.D., Temple

Assistant Professors:

Katherine L. French, Ph.D., Minnesota
Kristine Harris, Ph.D., Columbia
Louis H. Roper, Ph.D., University of Rochester
John Vander Lippe, Ph.D., University of Texas

Lecturer:

William Strongin, M.T.S., Harvard Divinity School

The History Department offers courses that vary in scope from broad to specialized, that vary in teaching method from lecture to discussion, and that are offered at both undergraduate and graduate levels. Students who wish to major in history may develop considerable concentration in an area listed below. The department offers courses with a global or regional perspective. With the aid of advisors, students are encouraged to design curricula that are suitable to their own needs and interests in history and in complementary fields such as other social sciences, philosophy, literature, and art.

Senior Thesis with Honors in History

Qualified students pursuing a liberal arts major in history may apply to research and write a senior thesis under the direction of a member of the department. Successful completion of the thesis will enable the student to graduate with honors in history, a distinction that will appear on the College transcript. Application must be made during the pre-registration of the last semester of the junior year. For further details, consult with the chair of the History Department.

Qualifications: Open to department liberal arts majors only; 3.00 cumulative average in all course work at the College; 3.50 average in history course work; a minimum of 24 credits in history before acceptance.

Major

History

33 credits

Required Courses15 credits

Each major is required to complete 6 credits in United States history; 6 credits in European history, and the seminar in history or its equivalent.

Electives18 credits

Each major is required to complete by advisement, 18 credits of electives in history, two courses of which must be selected from an approved list of non-Western offerings.

Students must earn a grade of "C-" or better in courses used in the History major.

Minor

History

18 credits

The History Department offers a minor program designed both to give students a substantial grasp of the discipline and to broaden the intellectual range associated with other major programs.

Four courses are required in one of the following areas (at least two of those courses must be at the 300 level or above):

- a. Ancient and Medieval Europe
- b. United States
- c. Modern Europe Since 1500
- d. Near East and Jewish History
- e. Asia
- f. Women

Two courses are required outside of one of the above areas and should be chosen with prior advisement.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

58101 The Modern World (4)

A survey of the expansion of Europe, the development of the modern capitalist world system and challenges to it, cultural and material interchanges among the major world civilizations, the formation of industrial-urban societies, and the political and ideological foundations of present world civilization.

58202 History of the Ancient Near East (3)

A review of the Paleolithic and Neolithic eras followed by a study in depth of the civilizations of ancient Mesopotamia, Egypt, the Holy Land, Persia, and the rest of the Near East. It is recommended that 58202 be completed prior to 58203 and 58204.

58203 History of Ancient Greece (3)

History of ancient Greece to the end of the Hellenistic period.

58204 History of Ancient Rome (3)

A study in depth of ancient Roman history from the beginnings, through the Republic, to the end of the Roman Empire in the west.

58205 The Jewish Experience (3)

The social, ethnic and spiritual dimensions of the Jewish people and Jewish civilization approached through topics of the Jewish calendar and festival cycle, life-cycle, diet, dress, Jewish theology, worship and sacred literature; and, anti-Semitism.

58207 Medieval Europe (3)

Rise of Christianity to the invention of the printing press. The

synthesis of Roman and Germanic cultures, social organization, and interaction between Christianity and non-Christian cultures.

58214 Modern Europe 1500 to Present (3)

The political, economic, and social evolution of Europe from the Renaissance to the present.

58221 United States History to 1865 (3)

Beginning with colonial roots, traces the growth of the American Republic from its birth in the War for Independence to its testing under forces of sectionalism in the Civil War.

58222 United States History Since 1865 (3)

Continuation of 58221. Analysis of the forces that shaped the modern industrial nation after the Civil War and resulted in the emergence of the United States as a world power.

58302 American Immigration (3)

Examines the numerous immigrant groups in American society from the seventeenth century through the present and focuses on adaptation to American values, and the changing culture of the United States.

58303 The Empire State (3)

surveys New York State's growth from beginning to present emphasizing the changing character of its people, society, economy and government.

58304 Development of the American City (3)

Traces the evolution of the colonial town through the era of megalopolis. Examines the social, cultural, political and intellectual ingredients which comprise American urban society.

58305 Women in European History (3)

Women in European history from the Middle Ages to the present, concentrating on women and work, love and sexuality, courtship and marriage, legal issues, women and reform, and the growth of feminist consciousness.

58308 Indians of New York State (3)

A history of the Native Americans of New York state from contact to the present. Special attention will be given to the Iroquois, Delaware, Mohican and Long Island Indian experiences.

58309 Indians of the United States (3)

History of American Indians from initial European contact to the present: Cherokee, Iroquois Confederacy, the Navajo, and the Sioux; development and impact of governmental policies in the United States; rise of native American militancy and protest.

58310 Indians of the Eastern Woodlands (3)

A history of the Native Americans east of the Mississippi from contact to the present. Special attention will be given to the Cherokee, Choctaw, Huron, Iroquois Confederacy, Lumbee, Shawnee, Stockbridge and Wampanoag experiences.

58311 Modern Germany (3)

Evolution of Germany since the French Revolution, the establishment of the German empire, the Weimar Republic, the Nazi regime, and the post-World War II division of Germany.

58315 Traditional China (3)

Chinese history and culture from earliest times through the Ming Dynasty (1368-1644), including aspects of politics,

economics, social structure, religion, philosophy, folk culture, and literature.

58316 Modern China (3)

Chinese history and culture from the late Ming Dynasty (1368-1644) to contemporary times.

58317 World War II (3)

Survey of military, political, social and cultural history of World War II from the viewpoint of world history.

58321 Colonial America (3)

Social, political, and cultural development of early American communities (1607-1763).

58322 The American Revolution (3)

Treats the Revolution as a bridge between the colonial inheritance and an independent republic. Focuses on the causes of the Revolution, the war, and the nation's character under the 1787 Constitution.

58324 American Civil War (3)

Social, economic, cultural and political context within which Civil War came about. Analysis of slavery, racial attitudes, capitalism, ideology, nationalism and power, violence and change.

58327 American Social and Cultural History to 1876 (3)

Inquiry into the character of American society and culture. Focus on cultural interaction; gender relations; developments in religion, slavery, industrialization, and descriptions of the growing United States.

58328 American Social and Cultural History: 1877 to Present (3)

American values as expressed in institutions, politics, literature and social behavior. Impact of industrialization, urbanization, and immigration on the American people.

58329 Postwar America: 1945 to Present (3)

Domestic and international developments resulting from the rise of the United States to global power. Emphasis on the origins and development of the Cold War, McCarthyism, and Vietnam. Analyzes the effects of American affluence on occupational and class structure, education, religion, political and social behavior. The emergence in the 1960s of the Civil Rights Movement, the New Left, and the counterculture and recent developments placed in historical perspective.

58332 Imperial Russia (3)

This course traces the rise of the Russian Empire from the time of Peter the Great through the Revolution, examining the political, economic, and cultural circumstances that led to the expansion as well as the collapse of the Empire.

58333 Soviet Union (3)

Development of the Soviet Union from an agrarian country to an industrial state. Methods and achievements of the Bolshevik leaders and the Communist Party; factors making the Soviet Union a leading world power and leading to its demise.

58334 Traditional Japan (3)

Japanese history and culture to the Tokugawa period (1600-1868), including geography, language, religion, social structure, government, politics, economy, trade, domestic and foreign policy.

58335 Modern Japan (3)

Chronological account of Japanese history and culture from the seventeenth century to modern times, including geography, language, religion, social structure, government, politics, economy, trade, foreign policy, and defense.

58343 History of Islam and the Middle East, 570-1918 (3)

An introduction to the history of the Middle East from the time of Muhammad to the end of the Ottoman Empire, concentrating on the Muslim religion, and the emergence and development of Muslim culture and societies.

58344 The Middle East in the 20th Century (3)

An introduction to the diverse history, societies and peoples of the Middle East since World War I, and the impact of imperialism and nationalism on Muslim societies and culture.

58348 Medieval Society (3)

Changes in the social organization of Medieval Europe. How peasants, nobles, townspeople, and monks and nuns lived and died.

58349 Renaissance and Reformation (3)

The Renaissance, its relation to the Reformation, and causes and effects of both movements.

58350 Early Modern Europe (3)

Examination of pre-industrial, agrarian European society, family structures, demography, towns, rise of national bureaucracies, and the European overseas expansion of the seventeenth and eighteenth centuries.

58353 Twentieth-Century Europe (3)

Study of Europe since 1890: imperialism, the world wars, fascism, communism, genocide, the European Economic Community, and the communist regimes in eastern Europe. Prerequisite: 58214 or one course in modern European history.

58357 Power and Gender in Early Modern England (3)

Power and gender in the political, religious, social, and cultural development in England from the rise of the Tudors to the beginning of the eighteenth century.

58367 Business and Society (3)

Study of the formation of American business institutions emphasizing social and political values from the merchant capitalists to the multinational corporation.

58371 World Jewish History I (3)

The Jews from the Hellenistic Period to the Renaissance, including the Jews under Rome, life under Christianity and Islam, the continuing diaspora of the medieval Jewish community, and the beginnings of modern Jewish life.

58373 The Holocaust (3)

Brief survey of the status and condition of European Jewry before World War II and analysis of the antisemitic movements with particular attention to the theory and practice of the Nazis. Detailed study of the stages in the destruction of European Jewry with comparisons of the course of the Holocaust in various countries and the different reactions of different Jewish and non-Jewish communities.

58374 American Jewish Experience (3)

Jews in America from seventeenth century to the present. Emphasis on the period after 1880. Exploration and analysis of immigration, the culture of the lower east side, labor movements, mobility, ethnic continuity, religion, American Zionism.

58380 Saints, Witches, and Madwomen (3)

The images of the madwoman, witch, and the visionary have both frightened and intrigued people for centuries. An examination of three images through different historical periods, using theoretical, historical and literary studies.

58382 Roman Catholics in the United States (3)

In view of new, heightened consciousness of the role of ethnic and religious communities in shaping the American tradition, this survey contributes to an understanding of the role of the Catholic minority to our national history.

58383 Religion in the United States (3)

A historical survey of the role of religion in American life and thought, with emphasis upon the quest for liberty of conscience and worship, utopianism, and the relation between religion and modern secular culture.

58413 The American West (3)

Selected topics in the history of the trans-Mississippi West. The American West as symbol and myth. The significance of continental expansion of American nationality, political, economic, and social development.

58415 European History Through Biography (3)

Focusing on certain individuals in European history, using a wide variety of sources, this course will examine how history can be distorted to serve social, cultural, and political needs, and the difficulties of determining historic truth about a person or event.

58442 Ancient Israel (3)

Ancient Israel from the Patriarchal period (ca. 1900 B.C.E.) to the Hellenistic period (ca. 160 B.C.E.). Selected archaeological sites, readings in the Bible, and analysis of evidence from contemporary extra-Biblical sources.

58461 Hudson Valley Culture (3)

Introduction to the Hudson Valley as a cultural milieu in the colonial, revolutionary, and early national periods of American history. An examination of the lives, thought, and works of Hudson Valley figures and their contributions to American thought and culture.

58467 The United States in Vietnam (3)

The origins, nature and consequences of America's involvement in Vietnam. Prerequisite: 58222 or PI.

58469 U.S. Foreign Policy Since 1900 (3)

Selected topics in the history of American foreign policy from the end of the Spanish War through the Vietnam War.

58481 History of Medicine (3)

The evolution of medical ideas from ancient to modern time, their application to changing social and cultural conditions in Europe and, especially, in America.

58492 Seminar in History (3)

Training in historical research methods through the critical reading of historical materials, primary research on selected topics, and the presentation of reports. Prerequisite: History or social studies major or PC.

58496, 58497 Senior Thesis in History I, II (3 each)

Qualified students pursuing a liberal arts history major may apply for admission to the history honors program. Independent study and writing of a thesis under the supervision of faculty on a topic selected by the student.

Successful completion means the student graduates with honors in history, a distinction that will appear on the permanent record. Credit for 58496 not allowed unless 58497 is completed. Prerequisite: PC.

Graduate Courses**58504 The American Civil War (3)**

The primary focus is on the social, economic and ideological context out of which the American Civil War emerged and the impact of slavery and racial division on American life and thought.

58511 Hudson Valley Culture (3)

Introduction to the Hudson Valley as a cultural milieu in the colonial, revolutionary and early national periods of American history.

58521 Interpretations of American History (3)

Selected problems in American history studied as reflections of different historical interpretations; emphasis on the most recent scholarly developments. Of special interest to teachers of American history.

58522 Colonial America (3)

Topics in the history of colonial America.

58523 The American Revolution (3)

Selected problems in the Revolutionary period; special attention to causes and nature of the American Revolution. Prerequisite: One American history course.

58525 New York State and the Revolution (3)

Colonial New York's reluctant progress toward independence, its part in the Revolution, and the effects of the Revolution on the growth and character of the new state.

58526 New York State History for Teachers (3)

Designed to help teachers to understand New York history and how to present it in the classroom. It develops the major character of the state's social, political, and economic growth through the Civil War. Open to students other than teachers.

58527 Recent American History (3)

Selected problems in United States history from 1890 to the present. Topics selected from a broad range of possible areas of concentration, including social, intellectual, diplomatic, economic, and political issues.

58529 Studies in American Social History: 1880 to Present (3)

Selected topics in the history of American society from 1880 to present, emphasis on newer methodologies of social history. Themes: urbanization, industrialization, immigration, ideas in their social context, and changing cultural values as expressed in literature, education, religion and the fine and performing arts.

58530 Social History of American Business (3)

A study of the formation of American society and culture shaped by capitalism, business institutions, technology industrialization and affluence. Prerequisite: Graduate standing or PI.

58549 World War II (3)

Surveys the war from 1939 to 1945 as a phase of global history. Emphasis on relating diplomatic and military history to

world-wide social, economic, scientific and political changes. Prerequisite: Graduate standing. This course is intended for secondary social studies teachers and other graduate students.

58550 America and Vietnam (3)

The origins, nature and consequences of America's involvement in Vietnam, the most important and traumatic episode in recent U.S. foreign policy. Prerequisite: 58222 or PI.

58555 History of China (3)

Chronological account of Chinese history and culture from earliest to modern times, including geography, language, religion, philosophy, social structure, government, politics, economy, trade, foreign policy and defense.

58556 History of Japan (3)

Chronological account of Japanese history and culture from earliest to modern times, including geography, language, religion, philosophy, social structure, government, politics, economy, trade, foreign policy and defense.

58557 Global History (3)

An advanced introduction to the study of the interconnections among major civilizations of the world, beginning with pre-history; focuses on global history since 1500. Prerequisite: Graduate Standing. This course is intended primarily for secondary social studies teachers.

58575 American Immigration (3)

An analysis of patterns of American immigration from the colonial era to the present. Traces old-world sources and examines similarities and differences in ethnic group behavior.

Interdisciplinary

New Paltz offers the following courses that combine elements of two or more traditional disciplines.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

99201 Natural History of an Estuary (3)

Interdisciplinary study of an estuary to demonstrate the interaction of the biological, chemical, geological, and meteorological influences on productivity, using the tidal reach of the Hudson River as a model. Prerequisite: One year of college science and PI.

99250 Assessment of Non-Traditional Learning (3)

The Non-Traditional Learning Program enables qualified students to earn college credits for knowledge gained through life experience. Learning sources include work, inservice training, hobbies, volunteer work and non-credit courses. Development and completion of a portfolio to document college-level learning. Prerequisite: Permission of NTL Program Coordinator.

99490 Honors Senior Project (3-6)

Fulfills the project requirement for seniors in the Honors Program. The project will be an individualized research project, field study or artistic endeavor that represents an accumulation of the undergraduate experience for an Honors

Student. Proposal should be submitted during spring semester of junior year. Prerequisite: Permission of Honors Program Director.

Jewish Studies

The Jewish Studies program enables students to take courses in a number of disciplines. The courses are available to students interested in furthering their knowledge of Jewish history, religion, culture, and literature. An interdisciplinary minor is available to interested students. The minor requires 15 credits of approved courses. One year of a language (Hebrew or Yiddish) is recommended, but not required. Because the completion of the minor is dependent upon advisement, students should plan their programs with the assistance of one of the following advisors: Gerald Sorin (history and coordinator, Jewish Studies Program), William Strongin (history), Lewis Brownstein (political science).

Minor

Jewish Studies

15 credits

56101	Elementary Hebrew I (3)
56102	Elementary Hebrew II (3)
56201	Intermediate Hebrew (3)
56205	Jewish Civilization (3)
58371	World Jewish History I (3)
58373	The Holocaust (3)
58374	American Jewish Experience (3)
58442	Ancient Israel (3)
71270	Religions of the World (3)
77330	Politics in Israel (3)
77337	Israel in World Politics (3)

Journalism Program

The Journalism Program offers students practical training in how to gather and write news, as well as a theoretical understanding of how the news media operate in American society. Part of the program focuses on developing skills that will prepare students for careers in newspapers, magazines, radio-television news and public relations. The theoretical courses enable students to understand how news is produced and how information plays an integral role in the functioning of a healthy democracy.

Students in news writing courses work in computer laboratories, writing stories under deadlines. In other classes they edit and design publications on state-of-the-art computers. The culmination of their training takes place in Albany where journalism majors spend one semester working at the Legislative Gazette, a weekly newspaper about the state's government. The Gazette, which has a full-time professional editor, readies students for the work force where more than one-third of the nation's economy is now centered around the processing of information. The Gazette is a required internship.

Journalism

42-45 credits

Required Courses**36-39 credits**

53230	Journalism I (4)
53232	Journalism II (4)
53312	Copy Editing and Layout (3)
53313	Public Affairs Reporting (3)
53314	Feature Writing (4)
53334	The Literature of Journalism (3)
53347	Media Ethics (3)
53452	Mass Media Law (3)
53461-3	Fieldwork (6-9)
53464	The Press in America (3)
<i>Two of the following:</i>	
41224	Expository Writing (3)
41226	Practical Grammar (3)
53315	Public Relations in America (3)
53393	Special Topics (3)
53465	Newspaper Organization and Management (3)
53468	Photojournalism I, II (3)
77319	Politics and Media (3)
90101	Media and Society (3)

Journalism Minor

20 credits

Required Courses**17 credits**

53230	Journalism I (4)
53313	Public Affairs Reporting (3)
53314	Feature Writing (4)
<i>Two of the following:</i>	
53334	The Literature of Journalism (3)
53347	Media Ethics (3)
53452	Mass Media Law (3)
53464	The Press in America (3)

One of the following**3 credits**

53461	Fieldwork in Journalism I (3)
53462	Fieldwork in Journalism II (3)
53463	Fieldwork in Journalism III (3)

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

53230 Journalism I (4)

An introduction to the evaluation, gathering, and writing of news. Students write both "hard" or "breaking" news stories and feature or human interest stories. Basic techniques in writing and reporting are covered. Prerequisite: Two freshman English courses.

53232 Journalism II (4)

Advanced reporting course in gathering and writing the news. Specialized types of reporting are covered, including coverage of speeches, press and conferences and meetings; police and court events; human and social services; government bureaucracies and the environment. Prerequisite: "C" in 53230.

53312 Copy Editing and Layout (3)

Practical course in editing of newspaper copy and page layout with intensive study of copyreading techniques. Prerequisite: "C" in 53230.

53313 Public Affairs Reporting (3)

A course to develop the skills of newspaper reporting on government on local, county, and state levels. Provides the opportunity to observe and report on legislative bodies and committees, school boards, police, and the court system. Prerequisite: "C" in 53230.

53314 Feature Writing (4)

Practice in writing non-fiction prose with study of requirements for publication. Prerequisite: "C" in 53230.

53315 Public Relations in America (3)

A theoretical and practical introduction to the (1) role of public relations in an informational-based, democratic society and (2) skills involved in relaying information to and getting feedback from various publics. Focus on preparation of material, especially press releases, for editors in print and electronic media. Prerequisite: 53230 or PI.

53334 The Literature of Journalism (3)

An inquiry into the link between literary and journalistic forms of writing, especially in the twentieth century. Topics include: relationships among literary naturalism and realism, and objective reporting; documentary reportage; muckraking; and the "new journalism". Prerequisite: Two freshman composition courses.

53347 Media Ethics (3)

Examines the broad range of ethical dilemmas faced by journalists in gathering and writing the news. Topics include conflicts of interest, business pressures, reporter-source relationships, invasion of privacy, and objectivity. Uses case-study approach.

53451 Press and Government (3)

An exploration into the relationship between press and government and especially how that relationship differs in authoritarian and democratic societies. Case studies reinforce theories.

53452 Mass Media Law (3)

Designed to introduce issues relating to the free speech guarantees of the First Amendment to the Constitution. It focuses on interpretations of the First Amendment, functions of free speech in a democracy, and Supreme Court decisions relating to regulation of print and electronic media.

53461, 53462, 53463 Fieldwork in Journalism I, II, III (3 each)

Independent work with the Legislative Gazette, a weekly newspaper published in Albany, newspapers in the Hudson Valley or in the student's home community. Majors in journalism are required to work at the Gazette. Prerequisite: 53230, 53312, 53314.

53464 The Press in America (3)

The news media's impact on American society. Contemporary issues involving press freedom and control. Development of American journalism from pre-revolutionary times to the present.

53465 Newspaper Organization and Management (3)

An examination of a newspaper's role in the community, the influence of computer technology on the industry, and the

departmental relationships necessary to produce a successful product. Prerequisite: 53230.

53468 Photojournalism I (3)

Designed for the student who wants to develop the discipline and learn the skills required for effective Photojournalism. Individual projects will be coupled with discussions, critiques and visits from professional photojournalists.

53469 Photojournalism II (3)

Emphasis on a single project upon which to base an in-depth photographic account. Prerequisite: 53468.

Latin American Studies

Associate Professors:

Elisa Davila (Coordinator), Ph.D., California-Santa Barbara (Hispanic Languages and Literature)

Wilma Feliciano, Ph.D., SUNY-Albany (Spanish)

Linda Greenow, Ph.D., Syracuse (Geography)

Assistant Professors:

David Labiosa, Ph.D., Michigan-Ann Arbor (Comparative Literature)

Zelbert Moore, Ph.D., Temple (History)

Rafael Saavedra-Hernandez, Ph.D., SUNY-Albany

The Latin American Studies program is an interdisciplinary program of academic work designed to give students a broad understanding of Latin American societies, literature, arts, history and languages. Since 1985 the program has offered a minor in Latin American Studies.

The Latin American Studies program is coordinated by the Latin American Studies Committee, composed of faculty members in several disciplines who teach courses about Latin America and provide academic advising to students taking courses in the program. The Committee seeks to maintain high academic standards in the program by reviewing the progress of students and approving appropriate courses for credit toward student's programs.

Recent assessments of future employment trends indicate that over 6,000 employees with expertise in Latin America will be needed by government and business employers in the coming decade.

Major

Latin American Studies

30-48 credits

Required Courses6 credits

61270 Introduction to Latin American Studies (3)

61495 Independent Study (senior project) (3)

Content Courses on Latin America24 credits

A total of 24 credits, distributed as indicated below. The 24 credits must be taken from at least three different departments.

Group A

History and Social Science Perspectives (at least 9 credits)

07304 Ancient Mesoamerica (3)

17231 Development of Afro-Latin American Civilizations (3)

17309 Introduction to Afro-Brazilian History (3)

17311 Blacks in the Caribbean (3)

48307 Understanding Latin America (3)

48510 Land and People of Latin America (3)

94393 Latinas in the United States (3)

Or other appropriate courses with significant Latin American content in history or social sciences, under advisement, for example appropriate Selected Topics courses (XX393, XX493, XX593).

Group B

Literature and the Arts (at least 6 credits)

89369 Spanish American Literature I (3)

89370 Spanish American Literature II (3)

89471 Spanish American Novel (3)

89372 Culture of Latin America I (3)

89565 Spanish American Poetry (3)

89567 Approaches to Spanish American Culture (3)

89573 Latin American Poetry of the 20th Century (3)

89575 Seminar in Spanish American Literature (3)

Or other appropriate courses with Latin American content in literature, music, art, or related subjects, under advisement, for example appropriate Selected Topics courses (XX393, XX493, XX593).

Language Requirements0-18 credits

89101 Elementary Spanish I (3)

89102 Elementary Spanish II (3)

89201 Intermediate Spanish I (3)

89202 Intermediate Spanish II (3)

OR

89113 Elementary Spanish for Native Speakers I (3)

89114 Elementary Spanish for Native Speakers II (3)

89213 Intermediate Spanish for Native Speakers I (3)

89214 Intermediate Spanish for Native Speakers II (3)

AND IN ADDITION TO EITHER SEQUENCE ABOVE, AT LEAST ONE OF THESE:

89301 Spanish Composition and Conversation I (3)

AND/OR

89361 Spanish Composition and Conversation II (3)

Minor

Latin American Studies

18 credits

Each candidate is expected to complete 6 courses in at least 3 different areas for a total of 18 credits. Courses taken for a major cannot be applied to the minor in Latin American Studies. Knowledge of Spanish or Portuguese is desirable but is not a requirement for the minor.

Liberal Arts Designation

All above courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

61270 Introduction to Latin American Studies (3)

Broad historical and geographic outlines of Latin America

stressing cultural diversity, economic development, and revolution and militarism. Case studies of individual countries.

Law Related Studies

Though no undergraduate institution offers a degree in law, students at many institutions have the opportunity to take courses concerned with substantive legal issues and other courses with focus on the structure of court systems and the impact of law on society. Several departments at New Paltz offer courses on these topics. In addition, the Department of Political Science administers an interdisciplinary Minor in Law and Politics. For further information on the minor, see the chair of the Department of Political Science and the program and course descriptions for the Department of Political Science elsewhere in this catalog.

The adviser for the study of law and law-related subjects is: Nancy Kassop (political science; pre-law advisor).

Linguistics

An interdepartmental minor program in linguistics is available to students interested in the scientific analysis and comparison of languages or in improving their theoretical understanding of language in connection with practical language study. Students who might be interested in a linguistics minor would usually major in a subject such as anthropology, communication, computer science, English, French, German, philosophy, psychology, or Spanish. Completion of the linguistics minor adds strength to such majors.

For the minor in linguistics the student must take Linguistics 63201, Introduction to Linguistics; and, by advisement, fifteen credits in courses from among those listed under "Linguistics" each semester in the Schedule of Classes. Students will ordinarily be advised to take at least one course in syntax and one in phonetics. Students may utilize cognate courses in such areas as acoustics, or speech pathology to satisfy minor requirements. Students must complete at least twelve credits from outside their major department toward the linguistics minor. Coordinator: Margaret Wade-Lewis, Department of Black Studies.

Minor

Linguistics

18 credits

Required Courses9 credits

63201 Introduction to Linguistics (3)

AND

Any two of the following:

41226 Practical Grammar (3)

41527 Development of Modern English (3)

63493 Selected Topics (3)

80402 Psychology of Language (3)

90302 Phonetics (3)

Electives9 credits

Any of the courses listed above or any of the following courses may be taken as electives. Twelve of the eighteen credits should be from courses outside the student's major department.

17396 Black English: Language and Culture (3)
41228 Introduction to the English Language (3)
63494 Fieldwork in Linguistics (3)
63495 Independent Study in Linguistics (3)
71336 Philosophy of Language (3)
90306 Language Development in Children (3)
90310 Anatomy and Physiology of Speech (4)
90355 Non-verbal Communication (3)
90452 Communication and Gender (3)

Students wishing to declare and pursue the minor should contact Dr. Margaret Wade-Lewis at CH F-105 or 257-2760 for advisement.

Undergraduate Course

63201 Introduction to Linguistics (3)

Basic phonetic and grammatical concepts for the scientific analysis and comparison of languages. Nature of dialects, language development, writing. Major language families.

Mathematics and Computer Science

Professors:

Michael Adams, Ph.D., Bristol
Salvatore Anastasio, Ph.D., New York University
Sunday Chikwendu, Ph.D., University of Washington
David M. Clark, Ph.D., Emory
Lawrence Fialkow, Ph.D., Michigan
Hanamantagouda P. Sankappanavar, Ph.D., Waterloo

Associate Professors:

Chirakkal V. Easwaran, Ph.D., Calgary
Richard Halpern, Ph.D., New York University
Stanley Hayes (Chair), Ph.D., Texas
Keqin Li, Ph.D., Houston
Krishnamurthi Ravishankar, Ph.D., Yeshiva
Donald Silberger, Ph.D., Washington
Paul R. Zuckerman, Ph.D., New York University

Assistant Professors:

Anthony J. Dos Reis, Ph.D., R.P.I.
Michael Hind, Ph.D., New York University
David Hobby, Ph.D., California-Berkeley
Elaine Kolitch, Ph.D., Colorado-Boulder
Andrew Pletch, Ph.D., Carleton
Martin Ruckert, Dr.Rer.Nat., Ludwig-Maxmilians University, Munich

Sandra Samelson, Ph.D., Carnegie Mellon
Ronald Sigal, Ph.D., New York University

Instructors:

Melissa Cass, M.S.Ed., SUNY-New Paltz
Elizabeth Anne DiPippo, M.S.Ed., SUNY-New Paltz
Jacqueline Grace, M.S., Western Washington State

Mathematics

The Department of Mathematics and Computer Science offers several degrees in mathematics. The major in Mathematics provides a strong theoretical background for graduate or industrial work in any area of mathematics; it may also lead to

graduate or industrial work, and may focus on applied areas of mathematics where scientific computing plays a central role. (See also "Computer Science.") A minor in Mathematics gives a foundation in the practical and theoretical tools of the subject.

In addition to the courses for its own majors, the Department of Mathematics and Computer Science offers a number of service courses tailored to the special needs of students in other programs. These include Elementary and Secondary Education, Engineering, Business and General Education. See those listings for specific curricula.

The mathematics curriculum is specifically structured to enable students to establish a firm academic base in mathematical principles before proceeding to advanced study. No course (including a transfer course) in which a pass/fail or a grade of less than "C-" is received may be used to meet a prerequisite or to satisfy requirements in any major offered by the Department of Mathematics and Computer Science.

Upon entrance to the College, each student is assigned a Mathematics Proficiency Level (MPL or MTH LVL) based on mathematics courses taken in high school or at other colleges. All students are encouraged to take the Mathematics Placement Examination either to improve a previously assigned MPL or to acquire an MPL for the first time. This test is offered at the beginning of each semester and at summer orientation, at times and places listed in the Schedule of Classes. MPLs are used as course prerequisites and to fulfill some General Education requirements.

Math Proficiency Levels (MPL) Fact Sheet: How to get a level.

MPL How to acquire one.

- 0,1 ●If the College doesn't know what MPL to assign, you will automatically get one of these numbers or a blank.
- or ●A score lower than 16 on the Basic Algebra Placement Exam.
- 2 ●The following WILL NOT raise your level:
100@DCCC, 020@OCCC, 099@UCCC,
1000@SCCC, 003@WCC, 07@SCC, 100@CGCC,
03B@BCC, 112@MCC, 002@NCC, 101@RCC,
012@FCC, or 6219, 32, 41, 6306, 12@HVCC
- 3 ●75% on Sequential III Regents Exam or 80% in course
●600 or better in SAT Math Test.
●C- in: Math 110@DCCC, 105@UCCC, 38104, 38105,
38106@ OCCC, 139@BCC, 110@WCC, 110@CGCC,
9202@DCCC, 104@FCC, 6243@HVCC, 03@KCC,
170@MCC, 109@NCC, 102@RCC, 27@SCC
●B in: 099@UCCC, 100@DCCC, 1000@SCCC,
003@WCC, 103@OCCC
●C- in Basic Algebra (64050) at New Paltz
●At least 16 correct on Basic Algebra Placement Exam
●From 9 - 13 correct on College Algebra Placement Exam
- 4 ●Score of 55 in CLEP College Algebra Exam
●C- in: 105&116@UCCC or 115@DCCC, 107@OCCC,
140,141@BCC, 107@WCC, 129@FCC,
6244,6245@HVCC, 10@KCC, 111@NCC, 51@SCC
●B in: 110@DCCC, 1003 or 1205@SCCC
●C- in College Algebra (64152) at New Paltz

- At least 14 correct on College Algebra Placement Exam
- From 11 to 16 correct in PreCalculus Placement Exam
- 5 ●Score 3 on AB form of Math-Calculus AP Exam
●Score 55 in CLEP College Algebra/Trigonometry Exam
●C- in MAT 115@DCCC, 160@UCCC, 38108 or 38109@OCCC
●C- in college level course "PreCalculus" in title
●C- in PreCalculus (64181) at New Paltz
●At least 17 correct on PreCalculus Placement Exam
- 6 ●Score 4 or 5 on AB form of Math-Calculus AP Exam
●Score 3 on BC form of Math-Calculus AP Exam
●Score 55 on CLEP Calculus w/Elem. Functions Exam
●C- in college level course with "Calculus I" in title
●C- in Calculus I (64251) taken at New Paltz

- The Math Placement Advisor is Melissa Cass (JFT 1008, X3444).
- Courses identified as nnn@xxx are understood as math course nnn at College xxx where UCCC-Ulster, OCCC-Orange, SCCC-Sullivan, BCC-Broome, CGCC-Columbia-Greene, SCC-Suffolk, KCC-Kingsborough, WCC-Westchester, HVCC-Hudson Valley, MCC-Monroe, NCC-Nassau, RCC-Rockland, FCC-Farmingdale.

Majors

Mathematics

52 credits

Required Mathematics Courses33 credits

- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 64260 Foundations of Mathematics I (3)
- 64301 Foundations of Mathematics II (3)
- 64321 Intermediate Analysis I (3)
- 64353 Calculus III (4)
- 64359 Ordinary Differential Equations (3)
- 64362 Linear Algebra (3)
- 64364 Introduction to Abstract Algebra I (3)
- 64381 Probability and Statistics I (3)

Elective Courses12 credits

A total of 12 credits in mathematics or computer science courses at the 300 level or above.

Required Computer Sciences Courses7 credits

- 25210 Computer Science I: Foundations (4)
- 25310 Computer Science II: Data Structures (3)

Mathematics majors who need to fulfill their GE Physical and Biological Sciences requirement (Category D), must do so with Laboratory Options. 75201, General Physics I, and 75202, General Physics II, are strongly recommended.

Minor

Mathematics

18 credits

Required Courses12 credits

- 64251 Calculus I (4)
- 64252 Calculus II (4)

- 64353 Calculus III (4)
OR
64383 Calculus IIIA (5)

Electives* 6 credits

Two of the following that are not required in the student's major.

- 64301 Foundations of Mathematics II* (3)
64310 Elementary Number Theory (3)
64331 Axiomatic Geometry (3)
64362 Linear Algebra (3)

* Note that 64301 is a prerequisite for 64310 and 64331.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

64050 Basic Algebra (3)

Rudiments of algebra and methods of solving word problems. Topics include exponents, algebraic expressions, equations in one or two variables. Credits earned do not count toward graduation. Prerequisite: MPL 2.

64100 Concepts of Modern Mathematics (3)

The general nature of mathematics as a formal science, introduction to some of the topics and techniques currently classified as modern mathematics. Prerequisite: MPL 3.

64103 Contemporary Applications of Mathematics (3)

An analytic skills course focusing on the mathematics of economic, political, and personal life. Mathematics is explored in the areas of management science, statistics, physical and social applications, decision making, geometry, and technology. Prerequisite: MPL 3.

64104 Mathematics of Chaos (3)

An analytic skills course in which students use a computer to investigate the strange behavior of simple dynamical systems. Explores offbeat mathematical ideas, some of which result in extraordinarily beautiful computer generated images. Prerequisite: MPL 3.

64111 Graphs, Shapes and Patterns (3)

General Education/Analytic Skills course for non-math/science majors. Topics chosen from graph theory, linear programming, scheduling, geometric growth and forms, distance measures, patterns, symmetries, tilings. Prerequisite: MPL 3 or "C-" in 64110.

64112 Statistics and Social Choice (3)

General Education/Analytic Skills course for non-math/science majors. Topics chosen from data representations, probability, statistical inference, coding schemes, decision making, voting, game theory. Prerequisite: MPL 3 or "C-" in 64110.

64140 Mathematics for Elementary School Teachers (3)

First course of a two-semester sequence covering problem solving, numeration, number theory, relations, functions, integers, rational and real numbers, statistics, probability, and the use of the calculator. Open to students seeking New York

State certification in Elementary Education. Prerequisite: Pre-K-6 curriculum and "C-" in 64050 or MPL 3.

64152 College Algebra (3)

Factoring, multiplying and dividing algebraic expressions, coordinate geometry, functions and functional notation, polynomials, exponents, logarithms, and inequalities. Primarily preparation for more advanced courses, but also open to students desiring a background in college algebra. Prerequisite: "C-" in 64050 or MPL 3.

64181 Pre-Calculus Mathematics (3)

Topics needed for the study of calculus: brief review of algebra; exponential and logarithmic functions; trigonometry; binomial theorem; remainder and factor theorems; mathematical induction; sequences; series; introduction to complex numbers. Prerequisite: "C-" in 64152 or MPL 4.

64240 Geometry: A Modern Introduction (3)

Second course of a two-semester sequence covering problem solving, logic, analysis of geometric shapes and solids, measurement, congruence, similarity, constructions, coordinate geometry, transformations, programming in LOGO, and the use of the calculator. Open only to students seeking New York State certification in Elementary Education. Prerequisite: Pre-K-6 curriculum and "C-" in 64140.

64241 Introduction to Statistics (3)

Descriptive statistics, measure of central tendency and dispersion, population parameters and sample statistics, use of probability distributions for statistical inference, binomial and normal distributions, introduction to hypothesis testing. Designed for non-mathematics majors. Not open to students who have taken 64381 or 64382. Prerequisite: "C-" in 64152 or MPL 4.

64245 Basic Calculus (4)

Survey of calculus useful to students of business, information science, and the social and biological sciences. Differentiation and integration of polynomial, rational, exponential, and logarithmic functions. Emphasis on techniques and applications, chosen from such fields as economics, psychology, and biology. This course does not give sufficient preparation for Calculus II. Students planning to continue their study of calculus are advised to register for Calculus I. Prerequisite: "C-" in 64152 or MPL 4.

64251 Calculus I (4)

The first of a two-semester sequence introducing the differential and integral calculus of functions of one variable, limits and continuity, differentiation, mean value theorem, extrema, integration, fundamental theorem of the calculus; methods of antidifferentiation, applications. Prerequisite: "C-" in 64181 or MPL 5.

64252 Calculus II (4)

The second of a two-semester sequence introducing the differential and integral calculus of functions of one variable, limits and continuity, differentiation, mean value theorem, extrema, integration, fundamental theorem of the calculus; methods of antidifferentiation, applications. Prerequisite: "C-" in 64251 or MPL 6.

64260 Foundations of Mathematics I (3)

Focus on basic principles of logic, set theory, functions, and the development of mathematical reasoning. Introduction to basic techniques in writing proofs. Prerequisite: "C-" in 64181 or MPL 5.

64261 Discrete Mathematics II (3)

A continuation of Discrete Mathematics I. Topics include trees, graphs, probability and algebra. Prerequisite: "C-" in 64260.

64301 Foundations of Mathematics II (3)

Builds upon mathematical concepts and skills introduced in 64260 with a primary focus on the clear writing of mathematical arguments. Emphasis on deductive thinking and strategies for proving theorems. Topics include set theory, logic, mathematical induction, recursion. Prerequisite: "C-" in 64251 and 64260.

64310 Elementary Number Theory (3)

Introductory study of integers. Axiomatic approach to order and divisibility property, prime distributions, modular arithmetics, perfect numbers and other topics. Prerequisite: "C-" in 64301 or 64360.

64311 Introduction to Set Theory (3)

Informal axiomatic set theory; the algebra of sets, relations and functions; equivalence relations; ordering relations and order types; well ordering relations and ordinal numbers; cardinal numbers; the notion of infinity and large cardinal numbers; the axiom of choice and the continuum hypothesis. Prerequisite: "C-" in 64301 and 64362.

64312 Introduction to Mathematical Logic (3)

Mathematical development of the first-order predicate calculus with emphasis on its meta-theory. The soundness and completeness of first-order logic; first order theories; applications to the elementary theories of orderings, groups, rings, integral domains, fields, lattices, and Boolean algebra. Prerequisite: "C-" in 64301 and 64362.

64321 Intermediate Analysis I (3)

A study of the theoretical foundations of elementary calculus: careful treatment of the concepts of limit and least upper bound; sequences of real numbers; continuity; differentiability; integrability; classical theorems of calculus such as the Mean Value Theorem and the Fundamental Theorem of calculus. Prerequisite: "C-" in 64301 and 64353.

64322 Intermediate Analysis II (3)

Series of real numbers; sequences and series of functions; uniform convergence; power series; Taylor Series, additional topics as chosen by the instructor. Prerequisite: "C-" in 64321.

64331 Axiomatic Geometry (3)

Geometry from a modern axiomatic standpoint, covering incidence, and between-ness, and emphasizing congruence and transformations. Prerequisite: "C-" in 64301 or 64363.

64332 Modern Geometry (3)

Euclidean and non-Euclidean geometries. Consistency proofs and Euclidean constructions. Prerequisite: "C-" in 64331 or PI.

64353 Calculus III (4)

Brief introduction to analytic geometry of 3-space. Real-valued functions of more than one variable. Partial derivatives, multiple integrals, line integrals, and applications. (See 64383 Calculus IIIA.) Prerequisite: "C-" in 64252.

64359 Ordinary Differential Equations (3)

Methods of solution of homogeneous and nonhomogeneous linear differential equations. Power series and Laplace transform methods. Non-linear equations of order one. Applications. Prerequisite: "C-" in 64252.

64360 Logic and Computability (3)

Advanced topics in discrete mathematics of special relevance to computer science; e.g. natural deduction, resolution and completeness of both; Turing machines, recursive languages and their equivalence; computational complexity and non-computability. Prerequisite: "C-" in 64363 or 64301 and "C-" in 25310.

64362 Linear Algebra (3)

The algebraic structure of Euclidean n-space and finite dimensional vector spaces. Linear transformations, matrices, determinants, linear equations. Norm, inner product, and orthogonality. Prerequisite: "C-" in 64353; corequisite: 64260.

64363 Combinatorics (3)

Counting arguments in different settings and their relation to probability. Functions, relations and, in particular, graphs and trees. Prerequisite: "C-" in 64260 or 25310.

64364, 64365 Introduction to Abstract Algebra I, II (3 each)

Elementary theory of groups and rings, integral domains and fields. Prerequisite for 64364: "C-" in 64301 and 64362; prerequisite for 64365: "C-" in 64364.

64375 Numerical Methods (3)

Computer solution of mathematical problems; round-off errors and computer arithmetic, solution of equations, interpolation and approximation, numerical differentiation and integration, direct and iterative techniques in matrix algebra. Prerequisite: "C-" in 64385 or 64362, 25210.

64382 Probability and Statistics II (3)

Introduction to probability theory and statistics. Random variables; distribution functions; expected value and moments; sampling; point estimation; interval estimation; hypothesis testing. Prerequisite: "C-" in 64381 and either 64353 or 64383.

64383 Calculus IIIA (5)

Third semester covering differential and integral calculus for engineering and science majors. Covers some of the same material as 64353, and most of 64384. Credit cannot be obtained for both this course and 64353 or 64384. Prerequisite: "C-" in 64252.

64384 Calculus IV (3)

Fourth semester covering differential and integral calculus. Emphasizes line and surface integral theorems, sequences, and series. Credit cannot be obtained for both this course and 64383. Prerequisite: "C-" in 64353.

64385 Linear Algebra and Systems of Differential Equations (3)

Covers much of the material in 64362 and emphasizes applications to linear systems of differential equations, for the benefit of engineering students. Credit cannot be obtained for both this course and 64362. Prerequisite: "C-" in 64359.

64386 Engineering Mathematics (3)

Phase plane, critical points of non-linear ordinary differential equations; Fourier series, boundary value problems; partial differential equations; separation of variables for the heat conduction, wave and Laplace's equation. Elementary functions of a complex variable. Prerequisite: "C-" in 64359 and either 64362 or 64385.

64475, 64476 Topics in Analysis I, II (3 each)

Topics as chosen by instructor and indicated in course schedule. Topics may include: special functions, Fourier analysis, integral equations, etc. Prerequisite: PI.

64481, 64482 Topics in Algebra and Foundations I, II (3 each)

Topics as chosen by instructor and indicated in course schedule. Topics may include: universal algebra, group theory, structures of rings, lattice theory, Galois theory, axiomatic set theory, formal systems, etc. Prerequisite: PI.

64487 Complex Function Theory (3)

Complex numbers, analytic functions, Cauchy-Riemann equations, harmonic functions; complex transcendental functions; Cauchy integral theorem; Taylor and Laurent series, residues and poles; conformal mapping; applications to heat conduction, electrostatic potential and fluid flow. Prerequisite: "C-" in 64386 or PI.

64488 Partial Differential Equations (3)

Classification of linear second order partial differential equations (PDE), diffusion-type problems, Fourier sine and cosine transforms. Laplace transform solutions, method of characteristics, elliptic-type problems, Green's functions, numerical and approximate methods. Prerequisite: "C-" in 64386 or PI.

Graduate Courses**64500 Combinatorics and Graph Theory (3)**

Combinatorial and graphical techniques for complexity analysis, generating functions, recurrence relations, Polya's Theory of Counting, graph theory, NP-complete problems. Prerequisite: "C-" in 64362.

64505 Mathematics for Computer System Analysis (3)

Probability, statistics, Markov chains, stochastic processes, modeling, applications to the analysis of computer systems. Prerequisite: "C-" in 25340, 64241, and 64362.

64507 Coding and Information Theory (3)

Error detecting codes, error correction codes, Huffman codes, Shannon's First Theorem, Shannon's Main Theorem, algebraic codes. Prerequisite: "C-" in 64381 or equivalent.

64509 Operations Research (3)

Linear programming, dynamic programming, branch and bound techniques, critical path method, game theory. Prerequisite: "C-" in 25310 and 64362.

64510 Geometries for Elementary and Middle School Teachers (3)

This course provides a geometric experience which clarifies, extends, and unifies geometric topics in Euclidean, analytic, transformational, and projective geometries. This course is open only to students doing graduate course work in elementary or middle school education in the School of Education. Prerequisite: TC or proficiency in undergraduate mathematics for elementary/middle teachers as established by the School of Education.

64511 Theory of Groups (3)

First course in algebraic structures. Basic set theory and number theory. Axioms of groups. Homomorphisms, isomorphisms, and quotient groups. For MS in Education degree students only. Not open to undergraduates. Prerequisite: "C-" in 21 credits of undergraduate mathematics beyond 64252.

64512 Real and Complex Number Systems (3)

Survey and development of number systems from the natural numbers to the complex numbers. Basic theory and properties. Applications to high school mathematics. For MS in

Education degree students only. Not open to undergraduates. Prerequisite: "C-" in 21 credits of undergraduate mathematics beyond 64252.

64513 The Joys of Geometry (3)

Topics in modern geometry such as finite geometries, transformations, non-Euclidean and projective geometries, Mascheroni constructions. Axiomatic approach is often used. Proofs constitute an important part of the course. For MS in Education degree students only. Not open to undergraduates. Prerequisite: "C-" in 21 credits of undergraduate mathematics beyond 64252.

64514 Linear Algebra with Applications to Geometry (3)

Matrices, linear transformations, and quadratic forms. Solutions of linear systems. Applications to analytic geometry of 2, 3, or n dimensions. For MS in Education degree students only. Not open to undergraduates. Prerequisite: "C-" in 21 credits of undergraduate mathematics beyond 64252.

64517 History of Mathematics (3)

Topics in mathematics from a historical perspective. The course may be a survey of the history of mathematics or it may concentrate on a few specific topics. In either case, students are required to solve problems and to prove theorems. Recommended for MS in Education degree students. Prerequisite: "C-" in 21 credits in undergraduate mathematics beyond 64252.

64518 Theory of Rings and Fields (3)

Rings, Fields and their extensions. Introduction to Galois Theory. Solutions of equations by radicals. For MS in Education degree students only. Not open to undergraduates. Prerequisite: "C-" in 64511 or equivalent.

64519 Sequences, Series, and Their Applications (3)

Sequences of real and complex numbers. Convergence criteria, series, uniform convergence, definition of functions by series and Taylor's theorem. For MS in Education degree students only. Not open to undergraduates. Prerequisite: "C-" in one 500-level mathematics course.

64531, 64532 Point Set Topology I, II (3 each)

Two-semester survey. Systematic study of the fundamental theorems following an axiomatic approach. Prerequisite for 64531: Undergraduate mathematics major or PI; prerequisite for 64532: "C-" in 64531 or PI.

64541 Complex Analysis I (3)

Provides a foundation for advanced work in analysis. Differentiation, Cauchy-Riemann Equations, elementary functions, conformal mapping, expansions, and analytic continuation. Prerequisite: Undergraduate mathematics major or PI.

64543, 64544 Real Analysis I, II (3 each)

The real number system, topology of \mathbb{R}^n , measure theory and the Lebesgue integral. Convergence theorems, differentiation and Lebesgue decompositions. Fubini's theorem, Stieltjes integrals, Radon-Nikodym theorem and Daniell integral. Prerequisite for 64543: Undergraduate mathematics major or PI; prerequisite for 64544: "C-" in 64543 or PI.

64561, 64562 Abstract Algebra I, II (3 each)

Groups, rings, integral domains and fields, modules and vector spaces. Prerequisite for 64561: Undergraduate mathematics major or PI; prerequisite for 64562: "C-" in 64561.

64563, 64564 Topics in Algebra I, II (3 each)

Topics chosen by the instructor, may include structure theory of Abelian groups, commutative rings and finite fields, lattice theory, universal algebra. Prerequisite: "C-" in 64562 or PI.

64571, 64572 Topics in Mathematical Logic and Set Theory I, II (3 each)

Topics, chosen by the instructor, from the theory of formal systems, recursive function theory, axiomatic set theory and model theory. Prerequisite for 64571: "C-" in 64563 or PI; prerequisite for 64572: "C-" in 64571.

64590 Thesis in Mathematics (6)

Writing and preparation of an expository or original thesis under the guidance of graduate faculty. Required form available in the Records and Registration Office. Prerequisite: PI.

Computer Science

For faculty listing, see Mathematics and Computer Science.

The Department of Mathematics and Computer Science offers several programs in computer science. The Major in Computer Science provides a strong background for graduate or industrial work in any area of computer science and has received accreditation by the Computing Sciences Accreditation Board. The Minor in Computer Science offers students a firm grounding in the tools needed to use computers in other fields. Students planning to major in computer science should get an advisor within the department as early as possible.

Course work within computer science provides a substantial exposure to both the theory and current practices of this rapidly expanding field. Our students obtain extensive experience with standard computer hardware and languages. On-site facilities provide students with the use of a large system computer, as well as microcomputers and powerful work stations in several student computer labs.

On-campus employment opportunities exist for outstanding computer science students during their undergraduate training.

No course (including transfer courses) in which a pass/fail grade or a grade lower than "C-" is received may be used to satisfy requirements in any major offered by the Department of Mathematics and Computer Science.

Upon admission to the College, each student is assigned a Mathematics Proficiency Level (MPL or MTH LVL) based on mathematics courses taken in high school or at other colleges. All students are encouraged to take the Mathematics Placement Examination either to improve a previously assigned MPL or to acquire an MPL for the first time. This test is offered at the beginning of each semester and at summer orientation, at times and places listed in the Schedule of Classes. MPLs are used as course prerequisites and to fulfill some General Education requirements.

Majors

Computer Science

73 credits

Required Computer Science Courses34 credits

- 25210 Computer Science I: Foundations (4)
- 25310 Computer Science II: Data Structures (3)
- 25325 Computer Organization and Assembly Language (3)
- 25340 Operating Systems I (3)
- 25352 Object Oriented Programming (3)
- 25353 Software Engineering (3)
- 25410 Design and Analysis of Algorithms (3)
- 25420 Languages and Machines (3)
- 25450 Design of Programming Languages (3)
- 25480 Senior Seminar (3)

One of the following:

- 25341 Operating Systems II (3)
- 25430 Compiler Construction (3)

Elective Courses6 credits

Any two 3-credit upper-division computer science courses.

Required Mathematics Courses14 credits

- 64251 Calculus I (4)
- 64252 Calculus II (4)
- 64363 Combinatorics (3)
- 64381 Probability and Statistics I (3)

Required Engineering Courses8 credits

- 40230 Digital Logic Design (3) and 40208 Lab (1)
- 40331 Microprocessor System Design (3) and 40308 Lab (1)

Required Science Courses8 credits

- 75201 General Physics I (4) AND
- 75202 General Physics II (4)
- OR*
- 22201 General Chemistry I (4) AND
- 22202 General Chemistry II (4)

Required Philosophy Course3 credits

- 71393 Philosophy and Technology (3)

All computer science majors must have a total of four semesters of science. In addition to General Physics (Chemistry), any two courses from General Education Category D except 07301, 15111, 15112 and 15113, may be used to complete this requirement.

Minor

Computer Science

16 credits

Required Computer Science Course4 credits

- 25210 Computer Science I: Foundations (4)

Elective Computer Science Courses9 credits

Each minor candidate is required to complete at least three 300-level-or-above computer science courses with the prior approval of an advisor from the department. Elective computer science courses must include at least two that are not required in the student's major.

Elective Mathematics Course 3 credits

Each minor candidate is required to complete at least one 200-level-or-above mathematics course (except 64240).

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

25103 Problem Solving with PC:SOLVE (3)

Applied matrix algebra (including Gauss-Jordan elimination techniques). Problem solving using PC:SOLVE on a variety of problems with applicability in business, accounting, statistics, finance, science, mathematics, economics, etc. Working with unstructured problems with missing and/or extraneous data. P/F grading only. Prerequisite: MPL 3.

25104 Visual Programming (3)

This course covers the Windows environment including files, program groups, Windows Help and applications. It covers visual programming topics such as applications, windows, controls and script writing. Prerequisite: "C-" in Basic Algebra or MPL 3.

25210 Computer Science I: Foundations (4)

Algorithms, computer organization, data representation, program structure, programming techniques, numerical and non-numerical problems with emphasis on the analysis of problems and the formulation of algorithms for their solution. Numerous short programming assignments. Prerequisite: "C-" in 64152 or MPL 4.

25310 Computer Science 2: Data Structures (3)

Advanced programming and techniques for organizing and operating upon data. Lists, stacks, trees, and graphs. Sequential and linked storage allocations. Data structures in language processors. Prerequisite: "B-" in 25210.

25325 Computer Organization and Assembly Language Programming (3)

Internal organization and 8088 assembly language programming; representation of data and computer arithmetic, computer elements and their function, micro-operations and instruction sequencing, assembly code and its translation. Prerequisite: "C-" in 25310.

25340 Operating Systems I (3)

The design and implementation of single and multi-user operating systems. Memory management, process management, device management. Prerequisite: "C-" in 25325.

25341 Operating Systems II (3)

Design and implementation of major components of a modern operating system. Prerequisite: "C-" in 25340.

25352 Object Oriented Programming (3)

The concepts of object oriented programming -- objects and classes, messages and receivers, encapsulation and inheritance -- and the typical tools -- browsers and libraries -- are presented. A large number of programming assignments require the student to commit substantial time and effort to this course, and provide the student with a working knowledge of object oriented programming. Prerequisite: "C-" in 25310.

25353 Software Engineering (3)

This is an introductory software engineering course that has a project as a major component. The emphasis is on the specification, organization, implementation, testing, and documentation of software. Programming proficiency in C as well as a background in data structures, file handling, and basic flowcharting are necessary prerequisites. Prerequisite: "C" in 25310.

25410 Design and Analysis of Algorithms (3)

Algorithm design, analysis, correctness and implementation. Application such as sorting, trees, graphs, hashing, flows. Prerequisite: "C-" in 25310 and 64363.

25420 Languages and Machines (3)

Specification and classification of languages. Machine models. Relationship between machines and languages. Prerequisite: "C-" in 25310 and 64363.

25430 Compiler Construction (3)

Design and construction of compilers. General characteristics and machine dependencies. Prerequisite: "C-" in 25450.

25440 Database Principles (3)

Study of the logical and physical organization of large databases; database system programming. Prerequisite: "C-" in 25310.

25450 Design of Programming Languages (3)

Language processors, data structures, control structures, run-time representation, comparison of programming languages. Students will write programs in several programming languages. Prerequisite: "C-" in 25325.

25455 Declarative Languages (3)

Declarative programming concepts. One language in each of the following categories is studied in detail: functional, logical, and object oriented. Students are required to write programs in several languages. Prerequisite: "C-" in 25310.

25460 Computer Architecture (3)

Data representation, memory organization, input/output processing, stack computers, parallel computers, pipeline architecture, microprogramming. Prerequisite: "C-" in 25325 and 40230.

25470 Computer Communication Networks (3)

Network architecture, data flow control, transmission control, path control, recovery, routing techniques. Prerequisite: "C-" in 25325.

Graduate Courses**25500 Computer Graphics (3)**

Graphics software and hardware, representation of points, lines, and surfaces in three dimensions, windowing, clipping, hidden surfaces and lines, shading. Prerequisite: Pass Preliminary Exam.

25505 Computer Simulation (3)

Use of the computer as a simulation tool, discrete and continuous simulation techniques, simulation languages, selected applications such as queuing theory, financial analysis, and simulation of computer systems. Prerequisite: Pass Preliminary Exam and "C-" in 64241.

25515 Programming Languages (3)

A critical evaluation of the design and implementation of programming languages. Topics include: history of programming languages, syntax and semantics, data and control structures, expressions, subprograms, scope and visibility, data abstraction, and exception handling. Prerequisite: Pass Preliminary Exam.

25520 Concurrent Programming (3)

Mutual exclusion, Dekker's algorithm, semaphores, languages for concurrent programming, applications in operating systems. Prerequisite: Pass Preliminary Exam and "C-" in 25340.

25522 Operating Systems (3)

A comprehensive investigation of Operating Systems concepts, including the following topics: Process Management, Memory Management, File Management, Input/Output, and Deadlocks. Examples of these concepts will be illustrated using the Unix operating system. Prerequisite: Pass Preliminary Exam.

25524 Parallel Computation (3)

Efficient parallel algorithms on arrays, trees, hypercubes, and PRAMS for a variety of problems. Structural properties of various network architectures and their relationships. Prerequisite: Pass Preliminary Exam and "C-" in 25410.

25526 Advanced Data Structures (3)

In-depth study of methods for organizing, retrieving, and modifying data in digital computers, as well as mathematical analysis of these techniques. Prerequisite: Pass Preliminary Exam.

25528 Algorithms (3)

Algorithms for a variety of applications. Various design and analysis techniques. Probabilistic and approximation algorithms. Prerequisite: Pass Preliminary Exam and "C-" in 25410.

25530 Computer Networks (3)

Network topology and communication media, resource sharing, performance analysis, protocols, local networks. Prerequisite: Pass Preliminary Exam and "C-" in 25325 and 64241.

25532 Theory of Computation (3)

Computability by Turing machines, grammars, and recursive functions. Uncomputability and computational complexity. Prerequisite: Pass Preliminary Exam and "C-" in 64260.

25535 Formal Languages (3)

Phrase-structure languages, automata and their languages, applications of formal languages to pattern recognition. Prerequisite: Pass Preliminary Exam and "C-" in 25420.

25540 Artificial Intelligence (3)

Basic problem solving methods, game playing, knowledge representation using first order logic, knowledge representation using other logics, theorem proving, pattern recognition, symbolic processing. Prerequisite: Pass Preliminary Exam and "C-" in 64260.

25545 Advanced Operating Systems (3)

The study of modern operating systems. Process, memory, device, and file management; virtual machines, distributed systems, security, reliability, performance analysis. Prerequisite: Pass Preliminary Exam and "C-" in 25340 and 64241.

25550 Software Engineering (3)

Program development tools, structured design and programming methodologies, software testing and validation, managing software development. Prerequisite: Pass Preliminary Exam and "C-" in 25325.

25552 Object Oriented Programming (3)

The concepts of Object Oriented Programming -- Encapsulation, Aggregation, Inheritance, Constructors, Destructors, Polymorphism, and Templates -- are presented. The various choices for design and implementation with their respective tradeoffs are discussed. Throughout the course, the language C++ will be used. A large number of programming assignments require the student to commit substantial time and effort to this course and provide the student with a working knowledge of Object Oriented Programming in C++. Prerequisite: Preliminary exam.

25555 Advanced Database Principles (3)

Recovery, integrity, concurrency, data models, extended relational model, distributed databases, database machines. Prerequisite: Pass Preliminary Exam and "C-" in 25325.

25560 Cryptography (3)

Transposition ciphers, substitution ciphers, algebraic systems, block ciphers, public key systems, data encryption standard. Prerequisite: Pass Preliminary Exam and "C-" in 64261 and 64381.

25565 Compiler Design (3)

Compiler design and implementation using top-down and bottom-up parsing. Scanner and parser generators. Prerequisite: Pass Preliminary Exam and "C-" in 25325.

25567 Compiler Optimizations (3)

An overview of the evolving field of compiler optimizations. Internal program representations, local and global optimizations, control flow analysis, data flow frameworks, static single assignment form, control dependence analysis, automatic parallelization, interprocedural analysis, pointer alias analysis, loop transformations. Prerequisite: Pass Preliminary Exam and PI.

25570 Systems Programming (3)

Systems programming in assembly and/or high-level language. Students will write several systems programs, such as a RAM disk and a virus detection program. Prerequisite: Pass Preliminary Exam and "C-" in 25325.

25575 Advanced Computer Architecture (3)

Study of current trends in computer architecture with topics selected by instructor. Among these may be parallel processing, capability-based systems and microprocessor architecture. Prerequisite: Pass Preliminary Exam and "C-" in 25325.

25590 Thesis in Computer Science (6)

Preparation and writing of a thesis under the guidance of graduate faculty. Required form available in the Records and Registration Office. Prerequisite: Pass Preliminary Exam and MS in Computer Science candidate and PI.

Native American Studies

The interdepartmental, interfaculty minor in Native American studies is designed to promote cultural awareness of the unique heritage and significant contributions of the first Americans. The faculty coordinator is Laurence M. Hauptman (History).

A minimum of 21 credits is required, to be selected from Native American courses listed below; up to 6 credits may be taken in courses listed under related areas below.

Native American Courses

07303	Indians of North America (3)
07304	Ancient Mesoamerica (3)
07312	North American Archaeology (3)
07314	Archaeology of New York State (3)
07434	Archaeological Field School (9)
11389	Art of Pre-Columbian America (3)
58308	Indians of New York State (3)
58309	Indians of the United States (3)
58310	Indians of the Eastern Woodlands (3)

Related Areas

07315	Historical Archaeology (3)
33418	Economics of Development (3)
38539	Social Foundations in Education (3)
38580	Current Issues in Education (3)
48301	Geography of the United States (3)
48307	Understanding Latin America (3)
48510	Land and People of Latin America (3)
48536	The Geography of New York State (3)
58303	The Empire State (3)
58321	Colonial America (3)
58327	American Social and Cultural History to 1876 (3)
87315	Racial and Ethnic Relations (3)

Nursing

Associate Professors:

Eleanor Richards, R.N., Ph.D., Adelphi
Margaret M. Stacklum, R.N., Ed.D., Columbia
Ide Pang Katims (Director), R.N., Ph.D., Adelphi

Assistant Professors:

Anne Champlin, R.N., Ed.D., Columbia
Deena Gill, R.N., F.N.P., Ed.D., Columbia

Lecturers:

Ellen Abate, R.N., M.A., New York University
Deborah Dilks, R.N., M.S., SUNY-New Paltz

The upper-division baccalaureate program in nursing provides an opportunity for registered nurses who wish to change or expand their educational and/or career goals. The program confers an understanding of the human health-illness experience and the theoretical underpinnings needed for professional practice. It strives for a synthesis of learnings from the liberal arts and sciences with the discipline's body of knowledge. The practice of nursing is operationalized in this curriculum by the enactment of five interrelated roles: practitioner, teacher/learner, leader, advocate and researcher from an appropriate theoretical perspective.

At the baccalaureate level, nursing education prepares professional nurse generalists who can deliver health care to individuals, families, communities, and societal groups. The program is designed to cultivate professional nursing roles

and to provide nurses with a sound academic foundation for pursuing graduate study in nursing. At the graduate level, nursing education prepares professional nurses for advanced practice.

Faculty guide and collaborate with the adult learner for the attainment of educational goals through directed and self-directed learning experiences. They seek to expand in the learner the commitment for continued learning and contributions to professional practice. Selected clinical assignments afford the student the opportunity to deliver direct nursing care to clients in a variety of settings.

Acceptance into the Nursing Major

Students seeking admission to the baccalaureate program in nursing for registered nurses must satisfy the following requirements:

1. Graduation from an accredited or a state-approved associate degree or diploma program in nursing with a cumulative grade point average of 2.50 or better.
2. Current licensure as a registered nurse in New York State and professional liability coverage. (Applicants awaiting the results of the licensing examination, who meet all other admission requirements, may be offered provisional admission to the nursing major. Failure to achieve licensure by the end of the first semester will result in the student being limited to non-nursing courses until licensure is granted).
3. Ability to meet both college and clinical agency health requirements.
4. Three letters of reference from individuals who can attest to the applicant's potential for upper-division nursing education.
5. Completion of the following lower-division prerequisite course work with a grade of "C" or better in each course:

English Composition	.....6 credits
Introductory Sociology	.....3 credits
General Psychology	.....3 credits
Developmental Psychology	.....3 credits
* Elementary Statistics	.....3 credits
General Chemistry	.....3-4 credits
Anatomy & Physiology	.....7-8 credits
Microbiology	.....3-4 credits

* NOTE: Statistics is a prerequisite for senior year courses. It may be taken prior to entry into the program, but must be taken prior to entry into 70400, Research in Nursing.

6. The National League for Nursing Mobility Profile II is used to validate 30 semester hours of lower-division nursing credits. Students must achieve at the 40th percentile or above in all four sections of the exam, the test scores of which are valid for five years. Students may be exempted from this exam if they graduated from an NLN accredited associate degree program in nursing with a grade point average of at least 2.50 and begin the first BSN clinical course 70320, Individual Health, within five years of graduation.

NOTE: The following criteria must be met before entrance into the upper-division Nursing Clinical Sequence:

- Official acceptance to the College at New Paltz as a matriculated student for the BSN degree. Contact the Office of Admissions (914) 257-3200 for information.

- Official acceptance into the Nursing Major. Contact the Department of Nursing (914) 257-2922 for information.
- Submission of a completed Departmental Health Form documenting immunization history, Rubella and Hepatitis B status, and annual physical examination by the student's health care provider.
- Verification of current liability insurance, annual training in bloodborne pathogens and universal precaution, and current licensure as a registered nurse in New York State.
- If required, successful completion of all sections of the NLN Mobility Profile II exams within the past five years.
- Successful completion of all lower-division prerequisite course work with the exception of Statistics which must be completed prior to enrollment in 70400, Research in Nursing.
- Successful completion of, or concurrent registration in, the following courses:

70300	Perspectives in Professional Socialization
70340	Contemporary Health Education Issues
15445	Pathophysiology

Registration in nursing courses is by instructor's permission and will generally not be open to non-majors.

Major

Nursing

45 credits

Required Nursing Courses33 credits

70300	Perspectives in Professional Socialization (2)
70310	Leadership & Management (3)
70320	Professional Nursing Practice in Individual Health (4)
70340	Contemporary Health Education Issues (3)
70400	Research in Nursing (3)
70421	Professional Nursing Practice in Family Health (6)
70422	Professional Nursing Practice in Community Health (6)
70430	Professional Nursing Practice in Societal Health (6)

Required Liberal Arts & Sciences Courses12 credits

07481	Transcultural Health (3)
15443	Pharmacology (3)
15445	Pathophysiology (3)
71306	Biomedical Ethics (3)

General Education Requirements

Students graduating from the State University of New York at New Paltz must fulfill a liberal arts general education requirement. This requirement is designed to encourage students to develop an appreciation of the value of learning for its own sake and to pursue the broader goals of self-understanding and comprehension of their world. Nursing majors are allowed to waive certain requirements in General Education and to substitute specified nursing courses for certain General Education II requirements. Consequently, nursing majors will meet General Education II requirements by completing the nursing prerequisites and the nursing major together with Freshman Composition I and II, Cultures and

Civilizations List I (WEST) and Aesthetic Expression (ASXP). Students will be assigned a nursing advisor in the initial semester of matriculation for individualized program planning.

One hundred and twenty academic credits are required for graduation. All prerequisite and required upper-division course work must be successfully completed with a grade of "C" or higher for progression in the curriculum and graduation from the major.

Liberal Arts Designation

The following courses may not be counted toward the liberal arts requirement: 70320, 70421, 70422, 70430.

Undergraduate Courses

70300 Perspectives in Professional Socialization (2)

A forum for nurses who wish to explore the rationale for baccalaureate education. Focus on examining issues critical in the development of multiple levels of nursing education and practice.

70310 Leadership and Management (3)

An introduction to the theories of leadership, management, group process and planned change. The focus is on designing a professional role in the organizational dimensions of health care delivery. Prerequisite: 70300.

70320 Professional Nursing Practice in Individual Health (4)

Introduction to the use of nursing process and theories. Focus on psycho-social and physiological systems assessment in planning care for individuals across the age span. College laboratory. Prerequisite or corequisite: 70300, 70340, 15445 and PC.

70340 Contemporary Health Education Issues (3)

Introduction to the role of health care teacher/counselor with a focus on theories of teaching and learning applied to health care issues, especially nutrition. Prerequisite or corequisite: 70300.

70400 Research in Nursing (3)

Introduction to the processes of scientific inquiry. Focus on identification of researchable problems and on evaluation of research for applicability of findings to nursing actions. Prerequisite: Introduction to Statistics and 70421 or PI.

70421 Professional Nursing Practice in Family Health (6)

Use of nursing process and theory to implement care for traditional and non-traditional family systems throughout the family developmental stages. Specific nursing intervention strategies with families are addressed. Clinical laboratory. Prerequisite or corequisites: 70310, 15443, 70320.

70422 Professional Nursing Practice in Community Health (6)

A community is viewed as client. In studying a community, health restoration, health maintenance, and health promotion strategies are explored through the examination of trends and risk reduction methods in selected community health problems. Clinical laboratory. Prerequisite or corequisites: 70400, all junior year courses.

70430 Professional Nursing Practice in Societal Health (6)

Analysis of the historical, current, and future impact of societal institutions on concepts of health, health care delivery and professional nursing practice. Clinical laboratory. Prerequisite: All previous nursing courses.

Graduate Courses**70500 Nursing Theory (3)**

Provides a base for graduate study through analysis of the empirics and aesthetics upon which nursing is based. The development of nursing science and application of theoretical models to advanced nursing practice are the foci. Prerequisite: PC.

70501 Advanced Health Assessment (3)

Advanced health assessment skills are used to create a comprehensive nursing data base. Customary and pathological findings in the health assessment of the adult are compared and contrasted with findings in pediatric and aging clients. Prerequisite: PC.

70502 Nursing Research (3)

An overview of the process of scientific inquiry in nursing. Focuses on sources of knowledge for identification of researchable problems and on utilization, generation, and dissemination of research for improved nursing practice. Prerequisite: Undergraduate statistics and nursing research courses and 70500.

70506 Gerontological Nursing Practice (6)

Examines needs of aging adults with normal changes, common chronic/acute health problems, multiple health problems, fragility and their caregivers. Nursing practice strategies are developed in a caring framework for older adults in acute, long-term and community-based settings. (3 credits theory, 3 credits clinical). Prerequisite: 70501 and 70510 or PI.

70508 Development of Advanced Nursing Roles (3)

Focuses on multiple roles, advanced leadership and collaborative skills, and role development. Personal and professional development for advanced nursing roles are emphasized. Empirical and historical-political knowledge are highlighted in the seminar setting. Issues related to empowerment, accountability, and interactive skills are explored. Prerequisite: PC.

70510 Theoretical Bases for Family Nursing (3)

Family and nursing theories are utilized to understand family dynamics and family health. Issues related to the personal and political meanings of family in the context of health care are explored. Nursing practice implications are introduced. Prerequisite: PC.

70516 Family Nursing Practice (6)

Health promotion, acute and chronic health problems confronted by families are examined. The development of theory and research-based nursing strategies that assist and strengthen family healing and coping is a major thrust of the course. Prerequisite: 70501 and 70510 or PI.

70521 Care Delivery Models (3)

Contemporary care delivery models based on concepts and principles of managed care, case management and collaborative primary care are explored. The applicability of diverse forms of care delivery in various health care settings for clients with differing needs are analyzed. Prerequisite: MS in Nursing candidate or PI.

70522 Chronically Disabled Older Adults (3)

Provides the clinician with a theoretical base to assist families/caregivers for encompassing changes in the chronically physical, mental, developmentally disabled older adult. Analysis of problems and issues in relationship between these client populations and health care providers is a major focus. Students will use current research findings to develop expertise in the role of gerontological clinical nurse specialist. Prerequisite: 70506 or PI.

70523 Psychiatric Nursing in Family Care (3)

Psychiatric nursing theory and practice applications to families in home care are presented. Specific strategies for intervention within the home and within the limitations of reimbursement policy for psychiatric home care are included. Prerequisite: 70510 or PI.

70530 Management Information Systems in Health Care (3)

Introduction to management information systems and applications used in the health care delivery system. Emphasis is placed on analysis and application of computer systems in nursing practice. Prerequisite: MS in Nursing candidate or PI.

70540 Curriculum Development in Nursing Education (3)

Student will incorporate theories of learning with emphasis on adult education into the development of curriculum materials. Prepares students to assess learning needs, develop content, instructional methods, and evaluation strategies in nursing education. Emphasis placed on research that underlies the teaching/learning process.

70550 Advanced Nursing Practicum (6)

This clinical practicum focuses on role development. The student will provide, direct and influence care of older clients under the preceptorship of a selected role model. Prerequisite: 70508, 70506 or 70516.

70590 Thesis in Nursing (3)

Preparation and defense of a written research report under the guidance of a major professor. May be repeated for additional credit, above the basic 36-credits required for the degree. Required form available in the Records and Registration Office. Prerequisite or corequisite: 70550.

70591 Special Project in Nursing (3)

Experience in utilization of research findings, generation of a researchable problem, and implementation of the research process in specialty practice. Prerequisite or corequisite: 70550.

Philosophy

Professor:

David Appelbaum, Ph.D., Harvard

Associate Professor:

David Blankenship, (Chair), Ph.D., Johns Hopkins

Assistant Professors:

Tove Finnestad, Ph.D., Rochester

Eugene Heath, Ph.D., Yale

The Department of Philosophy offers a program designed to acquaint students with the major divisions of philosophy (logic, theory of knowledge, metaphysics, ethics and political theory, and aesthetics) and with the principal historical and contemporary figures and schools. Philosophy is inherently interdisciplinary, so many of our courses are connected with

other disciplines and subjects such as the natural sciences, the social sciences, history, language, education, literature and the arts, religion, technology, business, and medicine. The study of philosophy is excellent preparation for graduate study in various professions, including medicine, law, government, business, and journalism.

The Department offers a major and a minor. Students should plan their programs in consultation with the department chair or another member of the Philosophy faculty as soon as they decide to major or minor in philosophy. Philosophy students are urged to complete a minimum of 15 credits in a foreign language, and to gain as broad an education in other subject areas as possible.

Major

Philosophy

36 credits

Required Courses27 credits

Analytic

71201 Logic (3)

Historical

71220 Ancient Greek Philosophy (3)

71222 Modern Philosophy to Kant (3)

Values

Three courses from the following list:

71304 Ethics (3)

71305 Business Ethics (3)

OR

71306 Biomedical Ethics (3)

71321 Religion, Ethics, Society (3)

71343 Aesthetics (3)

OR

71344 Philosophy of the Arts (3)

71372 Political and Social Philosophy (3)

Other Philosophical Studies

Three courses from the following list:

71307 Philosophical Psychology (3)

71314 19th Century Philosophy (3)

71320 God, World, Soul (3)

71336 Philosophy of Language (3)

71352 Existentialism (3)

71353 Phenomenology (3)

71461 Philosophy of Natural Science (3)

71471 Theory of Knowledge (3)

71474 Metaphysics (3)

Electives9 credits

Three courses

Minor

Philosophy

18 credits

18 credits in philosophy, 9 of which must be in upper-division courses.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

71110 Reason and Argument (3)

The identification, reconstruction, and evaluation of deductive and inductive arguments. Analytic skills are developed through critical analyses of examples of reasoning found in newspaper articles, scientific journals, statistical reports and ethical debates.

71201 Logic (3)

Techniques for determining the correctness of statements and arguments. Topics include: truth-functional and quantificational logic. Prerequisite: "C-" in 64050 or MPL 3.

71203 Introduction to Philosophy (3)

Some main problems concerning human beings and their place in the universe as discussed in a selection of classic philosophical texts from Greek antiquity through the early modern period.

71220 Ancient Greek Philosophy (3)

A general introduction to the origin and development of philosophical thought among the Presocratics, Socrates, Plato, and Aristotle, with a detailed analysis of representative texts. Problems in metaphysics, epistemology, ethics, politics, and religion in their historical and cultural context.

71222 Modern Philosophy (3)

Philosophy in the 17th and 18th centuries: Bacon, Hobbes, Locke, Berkeley, Hume, Descartes, Spinoza, Leibniz, and/or Kant. Topics may include: subject/object, mind/body, self/other; theories of knowledge; ethical and political theories.

71251 Indian Philosophy (3)

The consciousness of Indian tradition, as studied through texts and experience. The cosmos, divine reality, and the human psyche as reflected in major Hindu schools of thought.

71252 Introduction to Chinese and Japanese Philosophy (3)

The consciousness of Ch'an and Zen traditions, as studied through texts and experience. Understanding time, place, order, and being in this major school of thought.

71270 Religions of the World (3)

A survey of several major religious traditions, including Hinduism, Buddhism, Judaism, Christianity, and Islam.

71304 Ethics (3)

Examination of the major theories of ethical evaluation and justification. Some attention may be given to questions of relativism, the relation between religion and morality, and contemporary issues.

71305 Business Ethics (3)

Analysis, in light of ethical theories, of moral issues arising in business: economic justice, corporate social responsibility, conflict of interest, investment and production, ethics in advertising, environmental responsibility, discrimination.

71306 Biomedical Ethics (3)

A study of the ethical issues arising in the practice of the medical and health sciences. Issues include abortion, euthanasia, genetic research, cloning, and doctor-patient relations.

71307 Philosophical Psychology (3)

Philosophical issues concerning human mind and behavior. Topics may include: action, emotion, intention, motive, cause, desire; psychological theories such as behaviorism and psychoanalysis; cognitive psychology; the mind/body problem. Prerequisite: One course in philosophy or psychology or PI.

71308 Philosophy and Technology (3)

Theoretical and applied knowledge and their place in human life. Ethical, political, and aesthetic issues raised by contemporary technology, with special attention to computers. Artificial intelligence: minds and machines. Historical and contemporary writings.

71310 Later Greek and Roman Philosophy (3)

Selected works of the ancient Stoics, Epicureans, Skeptics, and Neoplatonists in their historical and cultural context.

71314 19th-Century Philosophy (3)

Selected authors and problems. Topics may change from year to year. Hegel, Schopenhauer, Marx, Nietzsche, Comte, Mill, and F.H. Bradley are among the authors who may be studied.

71320 God, World, and Soul (3)

The existence and nature of God, reason and faith, religious experience, immortality, miracles, the problem of evil. Ancient, medieval, modern, and contemporary authors of different philosophical and religious persuasions.

71321 Religion, Ethics, and Society (3)

Religion in relation to the development of moral ideas, and to individual morality and social and political institutions. Ancient, medieval, modern, and contemporary authors and documents from Jewish, Christian, and other traditions.

71331 American Philosophy (3)

The development of philosophical thought in the United States, with detailed attention to several major figures such as (but not limited to) Pierce, James, Dewey, Royce, Henry Adams, Emerson, Thoreau, Quine, Cavel, and Rorty.

71336 Philosophy of Language (3)

Structure and meaning of spoken and written language. Topics may include: signs and meaning, ambiguity, the origin of language, ordinary usage, poetic and magical language.

71343 Aesthetics (3)

Problems concerning the interpretation and evaluation of works of literature and fine art. Readings from philosophers and from critics and historians of literature and the arts. Illustrations from the arts of different periods and genres.

71344 Philosophy of the Arts (3)

Meaning and truth in the arts; the place of the arts in human life. Readings from philosophers such as Plato, Aristotle, Plotinus, Hegel, Schopenhauer, and Nietzsche. Illustrations from the arts of different periods and genres.

71372 Political and Social Philosophy (3)

Inquiry into the meaning and justification of such basic concepts of social life as authority, equality, justice, and liberty.

71375 Philosophy of Law (3)

The nature of law and its relation to morality and other human concerns. Specific problems concerning law and liberty, justice, responsibility and punishment. Readings from classic and contemporary philosophers and from court opinions.

71381 Studies of Contemporary Philosophers (3)

Major works of selected contemporary philosophers, such as Whitehead, Russell, Wittgenstein, or Heidegger. May be repeated for credit. Prerequisite: One philosophy course, or PI.

71461 Philosophy of Natural Science (3)

Review of the elements of scientific method; examination of the role of concepts, hypotheses and laws in science, and selected topics such as cause, space and time.

71465 Philosophy of Social Science (3)

An examination of some of the basic assumptions, concepts and special problems of the social sciences, the nature and limits of their explanations and predictions, and the objectivity of their inquiries. Examples will be taken from contemporary work in anthropology, sociology, economics or social psychology.

71471 Theory of Knowledge (3)

What is knowledge and how can it be obtained? Topics may include: knowledge and belief; different kinds of knowledge in different domains; discursive and non-discursive knowledge; skepticism. Readings from philosophers past and present. Prerequisite: One philosophy course or PI.

71474 Metaphysics (3)

The nature of reality as a whole; events and things; particulars and universals; cause and effect; space and time; mind, matter, and God. One or more metaphysical systems may be studied. Prerequisite: One philosophy course or PI.

Physics

Professor:

Donald Walker, Ph.D. Oregon State University

Associate Professors:

Tarun Biswas, Ph.D. Syracuse University

Gerald Kitmann (Chair), Ph.D., New York University

Instructional Support Associates:

Thomas Crepet (Planetarium Director), M.S., SUNY-New Paltz

Laurence Rowe, B.A., SUNY-New Paltz

Students who intend to major and/or minor in physics should consult with the department chair, preferably immediately upon admission to the college, so that an appropriate schedule of courses can be arranged. Failure to seek advice early may cause delay in completing degree requirements. Prospective physics majors (liberal arts or secondary education) should adhere to the following schedule sequence: freshman fall semester, 64251, 25210, 22201; freshman spring semester, 64252, 22202, 75201; sophomore fall semester 64353, 75202; sophomore spring semester 64359, 75309.

The Department of Physics offers several general interest non-major courses for persons interested in general science and music. These courses do not require a background in high school physics but high school algebra would be helpful.

Major

Physics

65-66 credits

Required Physics Courses32 credits

75201	General Physics I (4)
75202	General Physics II (4)
75301	Introductory Mathematical Physics (3)
75305	Computational Physics (3)
75309	Modern Physics (4)
75313	Electricity and Magnetism (3)
75411	Classical and Quantum Physics I (3)
75412	Classical and Quantum Physics II (3)
75424	Advanced Laboratory (2)
75491	Physics Senior Project (3)

Required Cognate Courses27 credits

22201	General Chemistry I (4)
22202	General Chemistry II (4)
25210	Computer Science I: Foundations (4)
64251	Calculus I (4)
64252	Calculus II (4)
64353	Calculus III (4)
64359	Ordinary Differential Equations (3)

Physics Electives6-7 credits

Any two courses from the following list with consultation:

40210	Circuit Analysis I (3)
64375	Numerical Methods (3)
75315	Engineering Mechanics (4)
75322	Optics (3)
75402	Fluid Mechanics (3)
75422	Thermodynamics (3)
75429	Solid State Physics (3)
75432	Atomic and Nuclear Physics (3)

Minor

Physics

18 credits

Each minor candidate is expected to complete 18 credits in physics at the 200 level or above with a minimum cumulative average of 2.00 for the courses taken. At least 6 credits must be at the 300 level or above. Students must take 8 credits beyond any cognate requirements in another major.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

No 100-level courses may be included in the physics major.

75101 The Scientific World (3)

Science for non-majors. The course emphasizes critical thinking about personal and social needs for science. Specific topics illustrate purpose and thoughts in science: classical physics, quantum physics, astronomy, chemical bonding,

geology, weather, living cell, genetics, evolution. Prerequisite: "C-" in 64050 or Math Proficiency Level 3.

75109 Physics of Sound and Music (3)

Nature, transmission, and absorption of sound; speech; hearing; music; noise; musical instruments and amplifying systems; rooms and auditoriums; sources of noise and noise pollution; noise codes; control of noise; and practical means of noise reduction.

75201 General Physics I (4) (3 hr. lec., 3 hr. lab/rec.)

Basic principles of mechanics, wave motion, and thermodynamics using vector analysis and calculus. Primarily for students majoring in physics, engineering, mathematics, and chemistry; students majoring in biology and geology should consult their advisor if they wish to take this course in preference to 75221. Prerequisite: 64251, Calculus I, or PC. Corequisite: 64252 and 75203.

75202 General Physics II (4) (3 hr. lec., 3 hr. lab/rec.)

Basic principles of electricity, magnetism, and optics using vector analysis and calculus. Primarily for students majoring in physics, engineering, mathematics, and chemistry; students majoring in biology and geology should consult their advisor if they wish to take this course in preference to 75222. Prerequisite: 75201. Corequisite: 75204.

75203 General Physics I Workshop (0)

Problem-solving course to be taken concurrently with 75201 gives students an opportunity to solve additional problems, preview sample exams or review exams, and ask questions about lecture material. Corequisite: 75201.

75204 General Physics II Workshop (0)

Problem-solving course to be taken concurrently with 75202 gives students an opportunity to solve additional problems, preview sample exams or review exams, and ask questions about lecture material. Corequisite: 75202.

75221 Fundamental Physics I (4) (3 hr. lec., 3 hr. lab/rec.)

An algebra-based introduction to particle mechanics, rigid-body and continuous matter motion, fluid mechanics, wave motion, structure of matter and thermodynamic principles. Prerequisite: 64152 or equivalent. Corequisite: 75223.

75222 Fundamental Physics II (4) (3 hr. lec., 3 hr. lab/rec.)

An algebra-based introduction to electricity, magnetism, electromagnetic waves, optics, relativity, quanta, Bohr atom, complex atom, ions and molecules, solid state, nucleus, nuclear transformation, and elementary particles. Prerequisite: 75221. Corequisite: 75224.

75223 Fundamental Physics I Workshop (0)

Problem-solving course to be taken concurrently with 75221 gives students an opportunity to solve additional problems, preview sample exams or review exams, and ask questions about lecture material. Corequisite: 75221.

75224 Fundamental Physics II Workshop (0)

Problem-solving course to be taken concurrently with 75222 gives students an opportunity to solve additional problems, preview sample exams or review exams, and ask questions about lecture material. Corequisite: 75222.

75301 Introductory Mathematical Physics (3)

Applications to physical problems of the techniques of calculus, vectors, matrices, complex analysis and partial differential equations. Prerequisite: 64353 and 75202.

75305 Computational Physics (3)

Introduction to numerical techniques -- root finding, integration, matrix manipulations, differential equations. Numerical simulations -- oscillations, space flight, electric fields, linear and non-linear waves, crystal growth. Prerequisite: 64359 and 75202.

75309 Modern Physics (4)

Special relativity, wave nature of particles, the wave function, one dimensional solution of Schrodinger's equation, atomic, nuclear and particle physics. Solid state physics. Prerequisite: 64353 and 75202.

75313 Electricity and Magnetism (3)

Laws of electricity and magnetism and their applications using vector analysis and computational techniques. Differential forms of Maxwell's equations. Prerequisite: 75202, 75301 and 75305.

75315 Engineering Mechanics (4)

Intermediate level mechanics for engineering and engineering-oriented students. Topics include statics of rigid bodies and strength of materials. Structure analysis, stress and strain, torsion, bending moments, deflection of beams, etc. Prerequisite: 64252 and 75201.

75322 Optics (3)

Geometrical and physical optics including thick lenses, polarization, coherence, interference and diffraction; propagation in crystals; non-linear optics; photon statistics; radiation pressure; electro-optics; gas crystals; semi-conductor laser. Prerequisite: 75309.

75402 Fluid Mechanics (3)

Fundamental physical characteristics, fluid statics; kinematics; flow of incompressible, compressible, and real fluids. Theory of models as applied to physical systems and development of several models of fluids. Prerequisite: 75202 and 75301, or PI.

75411 Classical and Quantum Physics I (3)

Classical mechanics with an emphasis on quantum mechanics. Computer techniques stressed with topics including one-dimensional motion, harmonic oscillator, vector algebra and calculus, central forces, system of particles, rigid bodies and Lagrangian mechanics. Prerequisite: 75305 and PI.

75412 Classical and Quantum Physics II (3)

Quantum mechanics and its link to classical mechanics. Stress on computer techniques in problem solving, topics -- wave function, time-dependent Schrodinger equation, formalism, three-dimensional systems, identical particles. Prerequisite: 75411.

75422 Thermodynamics (3)

Basic laws of thermodynamics. Conditions of equilibrium equations of state, Euler equation. Gibbs-Duhem relations, thermodynamic potentials, and the Nernst Theorem. Prerequisite: 75202 and PI.

75424 Advanced Laboratory (2)

Selected experiments (5-8) picked from various areas -- mechanics, optics, quantum mechanics, electronics, fluid mechanics, thermodynamics, solid state physics, and nuclear physics. Emphasis on individual work. Prerequisite: PI.

75429 Solid State Physics (3)

Crystals: Binding, symmetries, diffraction, reciprocal lattice, defects. Lattice dynamics: Phonons, modes, specific heat, thermal conduction. Metals: Free electron theory, band theory,

superconductivity. Semiconductors: Fermi-Dirac Statistics, transport, band shapes, p-n junction, electronic devices. Prerequisite: 75309 and PI.

75432 Atomic and Nuclear Physics (3)

Elementary quantum mechanics applied to multielectron atoms, identical particles, magnetic effects and nuclear systems. Quantum nature of elementary particles. Selections from quantum statistics, solid state physics, superconductivity and magnetic properties of solids according to class interest. Prerequisite: 75309 and PI.

75491 Physics Senior Project (3-6)

Project may be either experimental or theoretical physics by arrangement with a physics faculty advisor for a maximum of 6 credits starting in the fall of the senior year. Plan must be approved in the prior semester by chairperson.

75492 Physics Senior Project Continuation (1-3)

Continuation of senior project. Student must have completed 75491 and have approval of chairperson.

Political Science and International Relations

Professors:

Gerald Benjamin, Ph.D., Columbia
Alan Chartock, Ph.D., New York University
Alexander Young, Ph.D., Columbia

Associate Professors:

Lewis Brownstein (Chair), Ph.D., Johns Hopkins
Nancy Kassop, Ph.D., New York University

Assistant Professors:

Glenn McNitt, Ph.D., Pennsylvania State
Nikolaos Zakariadis, Ph.D., University of Georgia

The Political Science/International Relations program at New Paltz is designed to be both academically sound and responsive to student desires for practical experience and career preparation. A wide range of courses is offered in American government, international relations, political theory, comparative politics, law and law-related fields. In addition to the regular offerings, a number of "topics" courses may be given to serve student and community interest in current domestic and international issues.

An innovative aspect of the program is a full semester internship in the New York State Legislature. In the Albany semester internship, offered in the spring semester during the legislature session, students are placed in the office of a State Senator or Assemblyman or advocacy organizations where they work full time while attending a seminar directed by a professor of the Political Science faculty. This 15-credit program, widely recognized as one of the best of its type in the state, allows New Paltz undergraduates to gain responsible experience in the real world of politics, experience that serves them well in finding employment or gaining entry to graduate or professional school after the completion of their college work.

Another experience-based program is an internship in journalism and politics. This one-semester, 15-credit program publishes the Legislative Gazette, the official weekly newspaper of the State Legislature. Graduates of this program readily find jobs in journalism in the Hudson Valley.

Interest in pre-law training, in preparation for law school admissions, and advanced graduate work in law, legal process, and judicial behavior is met with an extensive range of courses within Political Science. A pre-law advisor works with students to prepare them for law school admission.

The undergraduate major in International Relations is one of the few of its kind in New York State, reflecting New Paltz's long history of concern with international issues. While taking courses in political science, history, economics, anthropology, and geography and black studies, students work with a diverse and highly qualified faculty, virtually all of whom have lived and worked overseas. The College's library holdings and other resource materials give students the opportunity to pursue study of a rich variety of topics and concerns.

International Relations and Political Science majors regularly take advantage of the College's location near New York City, a world center for international commerce and politics and the headquarters of United Nations. In 1997 the department re-established its United Nations semester course which combines classroom study with weekly trips to the UN.

A new concentration in Political Science is that in Political Economy. A recognized sub-field in political science, economics and sociology, the Political Economy concentration gives students an opportunity to study the relationship between governmental organization and policy on the one hand and the domestic and international economy on the other. Study of Political Economy will enable students to prepare for careers in government, public administration and the private economy.

Honors

A departmental honors program allows the department to recognize student excellence. Student majors who maintain an average of B or better are eligible in their senior year for selection for the Honors Seminar (77402). Successful completion of this seminar may lead to a recommendation that the student be graduated with honors. In semesters in which the seminar is not offered, seniors may apply to do individual Honors Research (77491) which, again, could lead to a recommendation for departmental honors.

A chapter of Pi Sigma Alpha, the national political science honor society, was established in 1979 and charter members inducted in that year. Each year, outstanding eligible undergraduates at New Paltz are invited to join the society.

Majors

Political Science

36 credits

Required Courses15 credits

- 77216 American Government and Politics (3)
- 77227 International Politics (3)
- 77229 Introduction to Comparative Politics (3)
- 77300 Scope and Methods of Political Science (3)
- 77327 Classics of Political Thought (3)

Political Science Electives21 credits

Majors are required to complete 21 credits of electives. Twelve credits are to come from courses in one of the following sub-fields: American government, political theory, comparative politics, international politics or law. The other nine credits are to be in courses from the remaining four sub-fields. Only nine credits of internship may be applied to the major. Students must earn a grade of "C-" or better in courses used for the Political Science major.

International Relations

36 credits

Required Courses15 credits

- 77227 International Politics (3)
- 77404 Seminar in International Relations (3)
- One of the following:*
- 07214 Cultural Anthropology (3)
- 48274 Environment and Culture (3)
- One of the following in foreign policy:*
- 77366 Contemporary American Foreign Policy (3)
- 58469 U.S. Foreign Policy Since 1900 (3)
- One of the following in international economics:**
- 33302 Comparative Economic Systems (3)
- 33401 International Trade and Finance (3)
- 33418 Economics of Developments (3)

* Or other international economics courses approved by the chair.

Elective Courses21 credits

Fifteen credits by advisement, selected from among those courses accepted for credit in the International Relations major/minor program. No more than three credits are to be at the 200 level.

Six credits by advisement of courses concerned with a single world area selected from among those courses accepted for credit in the International Relations major/minor program.

Students must earn a grade of "C-" or better in courses used for the International Relations major.

Political Science

Political Economy Concentration

45 credits

Required Courses18 credits

- 33206 Introduction to Microeconomics (3)
- 33207 Introduction to Macroeconomics (3)
- 33351 History of Economic Thought (3)
- 71372 Political and Social Philosophy (3)
- OR
- 77323 Modern Political Thought (3)
- 77227 International Politics (3)
- 87393 Introduction to Political Economy (3)

Basic Analytical Skills6 credits

- 20309 Statistics for Business & Economics I (3)
- 77300 Scope and Methods of Political Science (3)
- OR
- 87240 Sociological Inquiry and Analysis (3)

Electives18 credits

International Political Economy

Select any two (must be from different departments):

- 33302 Comparative Economic Systems (3)
- 33418 Economics of Development (3)
- 33493 Economic Development of Pacific Asia (3)
- 33493 Economic Change in Eastern Europe (3)
- 77343 Political Economy of Multinational Corporations (3)
- 77344 Politics of International Economic Organizations (3)
- 77366 Contemporary American Foreign Policy (3)
- 77393 International Political Economy (3)
- 87380 Social and Economic Development (3)
- 87493 Historical Sociology (3)

Domestic/National Political Economy and Policy

Select any two (must be from different departments):

- 33304 Public Finance (3)
- 33312 Labor Economics and Labor Relations (3)
- 77301 State Politics (3)
- 77310 Public Management (3)
- 77316 American Public Policies (3)
- 77318 Local Politics (3)
- 87345 Cities and Suburbs (3)
- 87340 Poverty and Society (3)
- 87310 Comparative Social Structures (3)

Social Theory

Select any two (must be from different departments):

- 71304 Ethics (3)
- 71314 19th Century Philosophy (3)
- 71321 Religion, Ethics, and Society (3)
- 71465 Philosophy of Social Sciences (3)
- 77226 Classics of Political Thought (3)
- 77328 Communism, Fascism, Democracy (3)
- 77431 American Political Thought (3)
- 87302 Contemporary Sociological Theory (3)

Senior Project in Political Economy3 credits

This can be satisfied through either the participation in an approved Senior Seminar or through an Independent Study. In either case, the student will be required to write a major research paper on a topic in political economy.

Students must earn a grade of "C-" or better in courses used for the concentration in Political Economy.

Minors

Political Science

18 credits

Required Course3 credits

- 77216 American Government and Politics (3)

Electives15 credits

A total of 15 credits in political science courses, of which at least 12 credits must be at the 300 level or above. Only 9 credits of internship or fieldwork may be applied to the minor.

Students must earn a grade of "C-" or better in courses used for the Political Science minor.

International Relations

18 credits

Required Courses9 credits

- 77227 Introduction to International Politics (3)

One of the following:

- 07214 Cultural Anthropology (3)
- 48274 Environment and Culture (3)

One of the following:

- 77366 Contemporary American Foreign Policy (3)
- 58469 U.S. Foreign Policy Since 1900 (3)

Elective Courses9 credits

By advisement selected from among those courses accepted for credit in the International Relations major/minor program. No more than three credits can be at the 200 level.

Students must earn a grade of "C-" or better in courses used for the International Relations minor.

Law and Politics

18 credits

Designed to introduce the student to the nature and significance of law in Western society. Required and elective courses examine (a) the role of law in America, (b) the history, organization, and dynamics of legal institutions, (c) the relationship of law to contemporary social questions, (d) legal principles governing business, commerce, and labor, and (e) law in the contemporary international system.

Required Courses9 credits

- 77350 Introduction to Law (3)
- 77317 Courts and Judges (3)

One of the following courses:

- 77351 Constitutional Law: National Government (3)
- 77352 Constitutional Law: Civil Liberties (3)

Electives9 credits

Three of the following courses:

- 07507 Anthropology and Law (3)
- 17435 Blacks and American Law (3)
- 20271 Business Law I (3)*
- 20272 Business Law II (3)*
- 71375 Philosophy of Law (3)
- 77351 Constitutional Law: National Government (3)**
- 77352 Constitutional Law: Civil Liberties (3)**
- 77416 Administrative Law (3)
- 77417 Judicial Process (3)
- 77441 Individual, Authority and Law (3)
- 77443 Sex Discrimination and the Law (3)
- 77444 Legal Theory and Ideology (3)
- 77453 International Law (3)
- 77455 Monopolies and Law (3)

Up to three credits of a law-related internship taken under 77480. Any law-related course numbered 293, 393, or 493, by prior approval of the chair of the department of political science.

Students must earn a grade of "C-" or better in courses used for the Law and Politics minor.

* A maximum of three credits of Business Law may be credited toward the minor.
 **The Constitutional Law course not taken as a required course may be taken as an elective.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

77216 American Government and Politics (3)

Structure and processes of the American system of government and politics. Basic constitutional principles, the theory and practice of representative government, and the organization and function of the political system.

77227 International Politics (3)

Policies of the great powers and smaller nations, and their relations to each other. Elements of national power and their impact on world affairs.

77229 Introduction to Comparative Politics (3)

Study of the major political systems of the world through the use of comparative theories and techniques.

77300 Scope and Methods of Political Science (3)

Fundamentals of contemporary, empirical research and analysis in political science. Prepare students to understand advanced classes in political science and develop rudimentary research skills for social science research projects. Dichotomy between the logical processes and pragmatic behavior of researchers. Prerequisite: One 200-level political science course and political science major.

77301 State Politics (3)

The organization and operation of government and politics in the American States. Fiscal and policy relationships with the national government, in the context of the federal system. Special emphasis on New York State. Prerequisite: 77216.

77302 Political Parties, Interest Groups, and Elections (3)

Political parties and interest groups as mediating institutions in American politics, with special focus on their role in nominating and electing public officials and their internal dynamics. Prerequisite: 77216.

77305 American Legislative Process (3)

Survey of American legislative systems, emphasizing Congress, the state legislatures, and the internal forces and procedures that facilitate or delay the solutions of urgent public problems. Organic political relationships with other institutions of government and within the entire Federal structure. Prerequisite: 77216.

77310 Public Management (3)

Introduction to the principles and practices of administrative organization and management in government. Prerequisite: 77216.

77316 American Public Policies (3)

Survey of American public policies, contrasting philosophies shaping evolution and evaluations of policy implementation by government. Policies include: business and labor regulation, education, affirmative action, social welfare and security, health and environmental protection. Prerequisite: 77216.

77317 Courts and Judges (3)

Federal and state courts examined from a political perspective. Federal and state court structure, methods of selection of

judicial personnel, aspects of the legal profession as practiced in America that affect judicial decisions, intricacies of court procedure, and personal background characteristics relevant to judicial decisions.

77318 Local Politics (3)

The operation and interaction of cities and suburbs, counties, towns and villages. The workings of public benefit corporations, school districts and other special purpose local governments. Special emphasis on local government in New York. Prerequisite: 77216.

77319 Politics and Media (3)

This course explores the relationship between the various media, politicians, and government officials. Particular attention is paid to the way the press and legislators, political executives, lobbyists, and members of the legislature interact.

77322 Power, Rights and Will (3)

Theories of state power, social change, individual rights, liberty, equality, and the common good from the rise of the nation-state to the 19th century. Readings will focus on political theorists such as Hobbes, Locke, and Rousseau, and may include Burke, J.S. Mill and Marx.

77323 Modern Political Theory (3)

Political ideas from the French Revolution to the present, significance of major modern political philosophies.

77327 Classics of Political Thought (3)

Classical theory from the pre-Socratic period to that of Machiavelli and the rise of the modern nation-state. Concepts such as authority, legitimacy, law, justice, constitution, and public good.

77328 Communism, Fascism, Democracy (3)

Examination of the major principles of the ideologies of communism, fascism, and democracy with respect to such issues as: the nature of man, the nature of the "good" society, the role of government in society, the role and duties of the individual in society.

77336 Middle Eastern Politics and Institutions (3)

Experience of the Middle Eastern countries with Western-type governments and institutions. Interplay of historical, religious, economic, and social factors as they affect the process of westernization and the emergence of nationalism.

77337 Israel in World Politics (3)

History, process, and issues in Israeli foreign relations. Though the emphasis is on the Arab-Israeli conflict, this is not the only area examined.

77338 International Organization (3)

The development of world organization culminating in the United Nations; its purposes, structure, operation, relations with other groupings, current problems and prospects.

77339 Model United Nations (3)

Preparation for participation in Model United Nations simulations around the country. Individual research on the United Nations and cooperative efforts to represent an assigned nation and its foreign policy; to serve on UN committees, such as political affairs, international economics, legal issues, human rights and disarmament. Prerequisite: 77227 and PI.

77341 Revolution and Counterrevolution (3)

Study of the types, causes, and consequences of revolution and counterrevolution in the twentieth century. Particular emphasis on the Russian, Chinese, and Third World revolutions as well as contemporary counterrevolution. Prerequisite: 77229 recommended.

77342 Politics of Developing Areas (3)

Comparative study of the processes, institutions, and issues of political systems in the developing societies of Africa, Middle East, Asia, and Latin America. Overview course to prepare students for more intensive studies dealing with specific areas.

77343 Political Economy of Multinational Corporations (3)

A study of multinational corporations with respect to their rise and spread, objectives, power, global strategies (marketing, production, financial, management, etc.), organizational structure, and economic-political impact, and recent national-international efforts to make them more responsive to economic development and just distribution of wealth.

77344 Politics of International Economic Organizations (3)

The origins, objectives, membership, organizational structure, rules, accomplishments, politics, relations with UN agencies, recent trends and problems, and future prospects of international financial, trade and energy organizations (such as IMF, World Bank, GATT, UNCTAD, OPEC). Prerequisite: 77227 or 33206.

77345 War and International Politics (3)

Study of forms, causes and consequences of armed conflict in the international system. Topics to be considered include: military power as a tool of foreign policy, inter-state warfare -- causes and resolution, just war doctrines, civil wars, and international politics, terrorism. Prerequisite: 77227.

77350 Introduction to Law (3)

The legal system and the role of law, systematic examination of the various branches of the law and their historical development; the effects of the law on human activity and the interrelationships of persons.

77351 Constitutional Law: National Government (3)

Analysis of constitutional aspects of the powers of the President, Congress, and the Courts; foreign relations and the war power; federal-state relations; regulation of the national commerce; nationality; elections.

77352 Constitutional Law: Civil Liberties (3)

Analysis of constitutional protections of personal rights and liberties, such as: desegregation, protection against sex discrimination, freedom of expression, privacy, fair trial.

77353 International Relations of the Americas (3)

International political, military, diplomatic and economic relations of the Western hemisphere in the 20th century; U.S.-Latin American relations, especially post-World War II; regional trends of economic restructuring and integration (NAFTA, Andean Pact, MERCOSUR) in the 1980's and 1990's.

77354 European Politics and Government (3)

Comparative study of government and politics under the constitutional systems of Western Europe. Prerequisite: 77216 or 77226.

77355 Criminal Law (3)

Statutory basis, constitutional context, and court decisions affecting criminal law, with special focus on New York. Particular attention to legal limits to arrest, search, and interrogation procedures; pre-trial hearings; discovery procedures; and role of defense counsel.

77356 Sex Discrimination and the Law (3)

Study of the legal under-pinnings of sex discrimination in the United States through case law and statutes. Coverage of such topics as employment, credit, rape, the ERA and discrimination on the basis of sexual preference.

77365 International Politics of East Asia (3)

Twentieth-century foreign policies of and international relations among the U.S., China, Soviet Union, Japan, and Korea, with special emphasis on foreign policy leadership and institutional processes of these countries.

77366 Contemporary American Foreign Policy (3)

Important issues and problems of contemporary American foreign policy and the alternative proposals for action.

77368 Defense Issues in American Foreign Policy (3)

Major issues facing the United States in formulating and implementing military policy in the nuclear age. Half the course will focus on nuclear weapons in U.S. foreign policy. The remainder will be on the role of conventional military power in U.S. foreign policy. Prerequisite: 77227.

77369 Governments and Politics of China and Japan (3)

A study of the contemporary political institutions (governments, parties, interest groups), policymaking processes and public policies of two of the most important world powers, and a brief comparison with the U.S. Prerequisite: One 200-level Political Science course or PI.

77371 Latin American Politics (3)

Political dynamics, structures and processes in Latin America. The course examines history and political economy of regions, social structures, coups and military states, revolutionary and nationalist movements, impact of international factors, and transitions to democracy.

77372 International Relations of the Middle East (3)

Foundations of international relations in the Middle East in terms of concepts and realities of international politics. Interstate relations in the region as well as their external relations with the superpowers.

77402 Honors Seminar in Political Science (3)

Systematic analysis of selected problems in the field of political science, individual research and preparation of reports for group discussion. Successful completion of this seminar, recommendation of the instructor, and approval of the departmental honors committee for honors in political science. Prerequisite: PI and PC.

77404 Seminar in International Relations (3)

Study of the major contributions of classical and contemporary thinkers in the field of International Relations. Students will present a major research paper to the seminar by the end of the course. Prerequisite: 77227.

77416 Administrative Law (3)

Powers and functions of administrative agencies with respect to business regulation, environmental protection, consumer protection, legal and political controls over administration action.

77417 Judicial Process (3)

Behavioral analysis of factors influencing court decisions and on-the-bench behavior of judges. Emphasis on such factors as personal background characteristics and intra-court dynamics. Prerequisite: One law course.

77431 American Political Thought (3)

Origin, development, and nature of theories which have significantly influenced the development of American politics.

77432 The American Presidency (3)

The role of the Federal executive in the American constitutional system, the sources of his power, and the organization of the executive office.

77453 International Law (3)

Role of law in international relations. Development, interpretation, and application of legal rules, and legal aspects of major contemporary problems.

77457 Chief Justice (3)

Political, personal, partisan, and interest group influences on selection, service, and success of sixteen men who have served as U.S. Chief Justice. Emphasis on Marshall, Taney, Taft, Hughes, Warren, and Burger. Rehnquist's prospects. Prerequisite: 77351, 77352, or 77317.

77480 Government Internship (9)

Provides students with an integrated academic work experience in a government or administrative agency for a semester. Possible positions include state legislature, United States Congress, police agencies, planning units, newspapers, and radio stations. Students work a minimum of 40 hours per week in close cooperation with political leaders and officials and participate in a weekly academic seminar. Interns are required to do a large amount of assigned reading, maintain a comprehensive journal, and submit weekly reaction papers. Instructors hold frequent individual conversations with interns as well as the agency supervisors. Students are allowed to register for no more than 15 academic credits while participating in the program. Prerequisite: Personal interview and PI.

77481, 77482 Government Fieldwork I, II (3 each)

Taken in conjunction with 77480. Prerequisite: PC.

77484 State Politics Semester (15)

Full-time internship in Albany with state legislator, administrative agency, or political party leader to carry out tasks of internship supervisor. Academic requirements include seminar participation, weekly papers, daily journal, and related book reviews. Prerequisite: PI and 77216.

77485 Legislative Gazette (6)

Full-time internship in Albany producing the Legislative Gazette. Participants must be enrolled simultaneously in Journalism Fieldwork courses, as determined by advisement.

77491 Honors Research (3)

Research in primary sources under the direction of a faculty member. Offered only in semesters in which the Honors Seminar is not scheduled. Recommendation of faculty member and approval of departmental honors committee for honors in political science. Prerequisite: PI and PC.

Pre-Health Professional Programs

Pre-Medical, Pre-Dental and Pre-Veterinary Medical Programs

The State University of New York at New Paltz offers all the courses required for students planning careers in medicine, dentistry or veterinary medicine. These same requirements will also provide the needed courses for post-graduate training in osteopathic medicine (see Cooperative Program in Osteopathic Medicine with New York College of Osteopathic Medicine), Podiatry, Physician Assistant, Optometry (see Cooperative Program in Optometry with SUNY College of Optometry) and Chiropractic. All of these post-graduate health programs require completion of an undergraduate major in any discipline plus the following two-semester laboratory courses: General Biology; General Chemistry; Organic Chemistry; General Physics with a Calculus corequisite. In addition to these curriculum requirements, most of these post-graduate health science programs require that students pass a national normative examination such as the MCAT. These pre-health profession programs are open to any student; there is no separate admission. Since these programs are lengthy it is advisable to contact the Pre-Health Professions Advisor, (914) 257-3770, as soon as possible after a decision to attend SUNY at New Paltz has been made.

In addition to these pre-health programs, SUNY at New Paltz has established cooperative programs with New York College of Osteopathic Medicine and SUNY College of Optometry which require special applications.

Cooperative 3/4 B.A./D.O. program with New York College of Osteopathic Medicine (NYCOM):

The program requires admission both to SUNY at New Paltz and NYCOM. Students accepted into the program are assured admission to the New York College of Osteopathic Medicine provided that they maintain a minimum 3.0 grade point average and provide adequate scores on the Medical College Admission Test (MCAT) (an average of 24 out of 40 points). Students may choose any major which must be completed no later than after the first year at NYCOM. Students must also complete the regular pre-medical science courses within the first two years. Matriculation at NYCOM will occur in the fourth post-high school year. Students in the program will receive their B.A. after one year in medical school and their D.O. after completing the normal 4-year medical school curriculum. The regular pre-medical course requirements, in addition to major program requirements, GE requirements, and Freshman English, include two semesters each of General Biology, General Chemistry, Organic Chemistry, Calculus and General Physics. The program is designed for students entering SUNY New Paltz from high school. However, transfers into the program are possible if openings exist and applicants meet the continuing requirements.

Cooperative 3/4 B.A./O.D. program with SUNY College of Optometry (SUNYCO):

The program requires admission both to SUNY at New Paltz and SUNYCO. Students accepted into the program will be admitted to SUNY College of Optometry after completion of a

normal 3-year program with a major in Biology provided they maintain a 3.0 grade point average (B); pass the national Optometry Admission Test (OAT); and pass General Psychology and Statistics as undergraduates.

2/3 Articulation Program with SUNY Upstate Health Science Center, Syracuse, Physical Therapy Program:

SUNY at New Paltz has established a Pre-Physical Therapy program with SUNY Upstate Health Science Center in Syracuse. The program requires two years of undergraduate study at SUNY New Paltz including: 2 semesters each of General Biology, General Chemistry, and either General Physics (calculus corequisite) or Fundamental Physics, plus 1 semester each of General Psychology, Psychology of Infants and Children, and a Psychology elective course. Volunteer or work experience with a licensed Physical Therapist is also required. Students who complete the Pre-Physical Therapy program in their second year can apply to SUNY Upstate Health Science Center during their third semester at SUNY New Paltz. This transfer application is competitive. Maintenance of a very high grade point average in the required lower-division courses at SUNY New Paltz will be necessary. Students who complete the Pre-Physical Therapy program can also apply to other Physical Therapy programs throughout the United States.

For further information on any of these Pre-Health Professional Programs, contact the Pre-Health Professions Advisor at (914) 257-3770. For the special application materials for the cooperative programs with NYCOM or with SUNYCO, contact the Admissions Office, (914) 257-3200.

Psychology

Professors:

James Halpern, Ph.D., New School for Social Research
Robert D. Nye, Ph.D., George Washington University
Robert J. Presbie, Ph.D., Tulane University
Donald Schiff, Ph.D., New York University

Adjunct Professor:

Paul L. Brown, Ph.D., McMaster University

Associate Professors:

Phyllis R. Freeman, Ph.D., Bryn Mawr
David L. Morse, Ph.D., Purdue University
Alison Nash (Chair), Ph.D., SUNY-Stony Brook
Richard A. Panman, Ph.D., University of Iowa
David C. Schiffman, Ph.D., Yeshiva University
Carol A. Vazquez, Ph.D., Princeton University

Assistant Professors:

Maryalice Citera, Ph.D., Purdue
Michael Gayle (Assistant to Chair), Ph.D., SUNY-Stony Brook
Jon Raskin, Ph.D., University of Florida

The psychology program at New Paltz has been designed to reflect the varying needs and interests of undergraduate psychology majors. Since psychology is an empirically based science, it is desirable for psychology majors to have the skills to both interpret and generate new information. To that end courses in statistics and experimental psychology/research methods are required. The remaining courses for completion of a major in psychology are drawn from three categories, with a minimum of two courses from the second and third

categories. The category II includes courses from the clinical-child-social areas of psychology, while the category III encompasses the general-experimental areas. The category IV contains more specialized courses. This flexibility has been built into the program so that students can pursue a line of study that reflects their interests and vocational goals. The interests of students generally fall into one of three categories: (1) those who want a general background in psychology, but don't intend to seek employment in the field of psychology; (2) those who want to apply some principles and techniques of psychology in an employment situation; and (3) those who want to pursue a career in psychology with a graduate degree. Students majoring in psychology are advised to acquire a broad range of training in the Liberal Arts. Elective courses in anthropology, biology, computer science, history, philosophy, political science, and sociology are strongly recommended.

Students must have a 2.50 cumulative grade point average to declare a major in Psychology. Students must also have completed General Psychology and a minimum of 45 credit hours.

Majors

Psychology 31-32 credits

Required Courses11 credits

Category I

- 80272 General Psychology (3)
- 80275 Psychological Statistics (4)*
- 80301 Experimental Psychology (4)

* 80275 or any college-level statistics course.

Electives21 credits

Category II

Two of the following:

- 80273 Psychology of Adjustment (3)
- 80304 Industrial Psychology (3)
- 80306 Social Psychology (3)
- 80343 Psychology of Infancy and Childhood(3)
- 80344 Psychology of Adolescence and Adulthood (3)
- 80412 Abnormal Psychology (3)
- 80440 Personality and Psychotherapy (3)
- 80458 Introduction to Psychological Testing (3)

Category III

Two of the following:

- 80302 History and Systems of Psychology (3)
- 80303 Introduction to Psychology of Learning (3)
- 80305 Psychology of Perception (3)
- 80308 Psychology of Motivation (3)
- 80310 Psychology of Memory and Thinking (3)
- 80402 Psychology of Language (3)
- 80436 Physiological Psychology (3)

Category IV

Three additional courses to be selected from among the courses listed above or from the following:

- 80315 Basics of Organizational Psychology (3)
- 80318 Group Behavior (3)
- 80320 Behavior Modification(3)
- 80330 Crisis Intervention (3)
- 80350 Psychology of Women (3)
- 80380 Practicum with Emotionally Disturbed Children (6)*
- 80430 Transactional Analysis (3)
- 80433 Psychoanalysis, Behaviorism, and Humanism (3)

80438	Clinical Psychology (3)
80442	Psychology of Social Problems (3)
80493	Selected Topics (3)
80494	Fieldwork in Psychology (3)

* Only 3 credits can be applied to the major.

Psychology

Concentration in Psychobiology 55-66 credits

Many graduate programs in psychology regard a broad undergraduate background in natural, physical, and social sciences as the best preparation for graduate study. For those students interested in pursuing graduate training in physiological psychology, psychobiology, or animal behavior, or in preparing for professional school while combining an interest in these areas, a concentration in psychobiology is available.

Required Psychology Courses32 credits

Completion of Major in Psychology with at least 3 of the following:

80303	Introduction to Psychology of Learning (3)
80305	Psychology of Perception (3)
80308	Psychology of Motivation (3)
80343	Psychology of Infancy and Childhood (3)
80436	Physiological Psychology (3)
80493	Selected topics (3) (In consultation with psychobiology advisor)

Required Biology Courses11-16 credits

15205	General Biology I (4)
15206	General Biology II (4)
15210	Introductory Biology (4) (May substitute for General Biology I and II)
15320	Genetics (4)
154XX	(400-level course to be selected in consultation with psychobiology advisor) (3-4)

Required Research3-6 credits

A total of 3-6 credits chosen from the following:

80495	Independent Study in Psychology (2-4)
80558	Seminar in Contemporary Research (3)
15490	Senior Seminar in Biology (3)

Electives9-12 credits

A total of 9-12 credits in anthropology, biology, chemistry or physics chosen by advisement.

Minors

Psychology

18 credits

Required Courses9 credits

80272	General Psychology (3)
	One course selected from Category II (3)
	One course selected from Category III (3)

Elective Courses9 credits

Psychology

Management and Organizational Psychology 18 credits

Required Courses9 credits

80272	General Psychology (3)
80304	Industrial Psychology (3)
80315	Basics of Organizational Psychology (3) See b. below.

Elective Courses9 credits

Select three of the following:

80303	Introduction to Psychology of Learning (3)
80306	Social Psychology (3)
80308	Psychology of Motivation (3)
80318	Group Behavior (3)
80320	Behavior Modification (3)
80438	Clinical Psychology (3)
80458	Psychological Testing (3)
80493	Selected Topics in Psychology (3) See a. below
80516	Organizational Psychology (3) See b. below
80541	Personnel Psychology (3) See c. below

a. By advisement.
b. Not open to students using Organizational Behavior (20321) to satisfy Business concentration requirements.
c. Not open to students using Personnel Management (20345) to satisfy Business major requirements.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

80272 General Psychology (3)

Introduction to psychology. Learning, motivation, personality, intelligence, testing, abnormal behavior, and psychotherapy.

80273 Psychology of Adjustment (3)

The adjustment processes through childhood, adolescence, and aging. Topics include: motivation, emotion, learning, marriage, divorce, group behavior, stress, illness, and rehabilitation.

80275 Psychological Statistics (4)

Introduction to descriptive and inferential statistical procedures commonly used in psychological research. Includes correlations, interval estimation, hypothesis testing with z and t tests. Prerequisite: "C-" in 64050 or MPL 3.

80301 Experimental Psychology (4)

Experimental techniques in psychology and major areas of current research. Laboratory section for experimental assignments. Prerequisite: Psychology major and 80272 and 80275.

80302 History and Systems in Psychology (3)

Philosophies and approaches that have led to contemporary psychology. Major contributors such as James, Freud, Watson, and Skinner, and their psychological approaches. Prerequisite: Psychology major and 80272.

80303 Introduction to the Psychology of Learning (3)

Experimental findings in and contemporary theories of learning. Prerequisite: Psychology major and 80272.

80304 Industrial Psychology (3)

Human relations in management, psychological sources of efficiency, and motivation of consumer and work behavior. Prerequisite: 80272.

80305 Psychology of Perception (3)

Perceptual processes of form, color, movement, space, localization, and constancy. The psychology of consciousness. Prerequisite: Psychology major and 80272.

80306 Social Psychology (3)

Theories and research regarding social behaviors such as conformity, altruism, aggression, attitude-formation, and discrimination. Prerequisite: 80272 or 87100.

80308 Psychology of Motivation (3)

Identification of basic concepts, theories, and experimental findings of the psychology of motivation. Prerequisite: Psychology major and 80272.

80310 Psychology of Memory and Thinking (3)

Theories and research regarding the mental processes of acquiring and retaining information for later retrieval, and the manipulation of that information for complex skills such as reasoning, decision-making, and problem solving. Prerequisite: 80272.

80311 Research Methods in Psychology (3)

Research methodology in psychology. Topics include critical thinking, descriptive research approaches, experimental research approaches, control, research designs, hypothesis testing, cognitive development, development of learning strategies, instructional methods, evaluation of learning outcomes, and evaluation of learner characteristics. Prerequisite: 80272, 80275, and Pre-K-6 Psychology major.

80315 Basics of Organizational Psychology (3)

Introduction to organizational behavior and management, emphasizing psychological and social-psychological theories and findings. Research methods, learning, motivation, stress, communication, leadership, and other topics are discussed, both in general and in relation to work settings. Students may not take both this course and 20321 for credit. Prerequisite: 80272.

80318 Group Behavior (3)

Participation in face-to-face small groups focusing on the group's own behavior. Emphasis is on an understanding of leadership, power, and authority as primary elements of social behavior. Each student is expected to participate actively in group sessions. Available as an alternative to traditional educational approaches. Because of this approach some students may experience stress.

80320 Behavior Modification: Principles and Procedures (3)

Principles of operant conditioning and application of these principles to improve behavior in the schools, home, institution, work setting and personal self-improvement. Practical procedures of changing behavior in the natural environment. Prerequisite: Psychology major and 80272.

80330 Crisis Intervention (3)

Basic counseling and crisis intervention skills using a didactic/experiential approach under professional

psychological supervision. Theory of intervention in suicide, substance abuse, and developmental crises. Role play practice. Prerequisite: PI.

80343 Psychology of Infancy and Childhood (3)

Theories and research on social, emotional, perceptual, and cognitive development. Implications of this information for child-rearing, education, and society. Prerequisite: 80272.

80344 Psychology of Adolescence and Adulthood (3)

Emphasis on the issues, trends, and information pertinent to development from adolescence through death. Particular attention to problems of the adolescent, the aged, and the family in today's society. Prerequisite: 80272.

80350 Psychology of Women (3)

The psychology of women as conceptualized within traditional psychological as well as feminist theory. A survey of findings on women from various fields: personality, cognition, physiological, social, developmental and abnormal psychology. Prerequisite: 80272.

80380 Practicum with Emotionally Disturbed Children (6)

Students spend one month as full-time counselors in residence at Ramapo-Anchorage Camp working with emotionally disturbed children. An intensive theoretical component covers childhood psychopathology, evaluation, and treatment as well as supervised practical experience. Prerequisite: PI.

80402 Psychology of Language (3)

Study of language behavior and its relation to learning and thought processes. Attention to language acquisition and psychological phenomena of speech and speech perception. Social aspects of language and non-verbal communication. Prerequisite: Psychology major and 80272 or PI.

80412 Abnormal Psychology (3)

Symptoms, causes, and therapies of anxiety disorders, psychoses, and personality disturbances. Prerequisite: 80272.

80430 Transactional Analysis (3)

Examination of a contemporary theory of personality and a system of psychotherapy. Comparison with other theoretical perspectives. Applications to personal and interpersonal settings. Prerequisite: 80272.

80433 Psychoanalysis, Behaviorism, and Humanism (3)

Practical analyses of three major approaches to the study of human behavior; special emphasis on comparison of the ideas of Freud, B.F. Skinner, and Carl Rogers. Prerequisite: 80272 and two 300-level psychology courses.

80436 Physiological Psychology (3)

The functioning of the brain and its role in learning, eating, drinking, aggression, and behavioral abnormalities. Prerequisite: Psychology major, 80272 and two psychology courses, or PI.

80438 Clinical Psychology (3)

Examination of major issues in clinical psychology today, focusing particularly upon current psychotherapies, diagnosis, ethical, legal, and social concerns raised by mental health services. Prerequisite: 80272 or PI.

80440 Personality and Psychotherapy (3)

Review of contemporary theories and methods of psychotherapy: Freud, Jung, the Neo-Freudians, Rogers, Wolpe, Bowen, and others. Prerequisite: 80272.

80442 Psychological Study of Social Problems (3)

Study of one or more current social problems, such as violence, poverty, education, drug use, war, through an examination of psychological and social-psychological data and theory. Prerequisite: 80272, one 300-level psychology course.

80458 Introduction to Psychological Testing (3)

Uses and limitations of present psychological techniques for assessing ability, achievement, intelligence, personality, and abnormality. Objective and projective personality tests. Prerequisite: 80272.

Graduate Courses**80505 Relationships and Gender (3)**

Focus is on relationships between men and women, though other important human relationships may be discussed. Object relations theory, the works of Carol Gilligan, male-female communication, sex differences and roles, marriage and sexuality, the family. Prerequisite: Elective for MA Psychology candidates and PI.

80516 Organizational Psychology (3)

The focus is on individual behavior in work settings, primarily at the group, team, and organizational levels. We will examine motivation, leadership, organizational culture, conflict, and job-related attitudes. Prerequisite: 80304 or PI.

80528 Developmental Psychology (3)

Current research and theoretical perspectives on socio-emotional and cognitive development in infancy and childhood. Prerequisite: MA Psychology candidate or PI.

80530 Advanced Studies in Behavior Modification (3)

Review of recent research and current developments in operant conditioning principles as techniques of behavior modification. Research models, applications in education, institutions, business, personal behaviors, community, home, and ethical questions of controlling behavior. Prerequisite: Graduate standing.

80541 Personnel Psychology (3)

The focus is on human resource and staffing issues in organizations. We will explore such topics as recruitment, selection, performance appraisal, training and compensation. Prerequisite: 80304 or PI.

80550 Family Therapy (3)

A variety of approaches to family and couples therapy including psychoanalytic, behavioral, transgenerational, structural, strategic and systems will be examined. The theory and technique of Bowen, Minuchin, Haley, and the Milan associates will be emphasized. Prerequisite: PI or MA in Psychology candidate. Student should have background in psychology, sociology, education, nursing or related field.

80551 Design and Analysis of Psychological Experiments (3)

Advanced applications of statistical procedures to the results of psychological experiments. Such topics as analysis of variance, factorial, repeated measures designs, trend analysis, multiple comparison tests are covered, along with non-parametric tests. Prerequisite: MA in Psychology candidate or PI.

80552 Psychopathology (3)

Symptoms, etiologies, and therapies of anxiety disorders, psychoses, and social and sexual disturbances and other mental health dysfunctions emphasizing recent research and findings. Prerequisite: MA in Psychology candidate or PI.

80553 Techniques in Psychotherapy and Counseling (3)

Contemporary theories and techniques of individual psychological treatment with adults. Techniques such as analysis, client-centered, behavioral and family systems approaches. Prerequisite: MA in Psychology candidate or PI.

80554 Research Methods in Psychology (3)

Principles of research design in psychology, including field studies, randomized experiments, and quasi-experimental designs. Discussion of moral and ethical problems encountered in conducting animal and human research. Each student designs a research project. Prerequisite: MA in Psychology candidate and 80551.

80555 Personality Measurement (3)

Background, administration, scoring, and interpretation of projective and objective personality measures with emphasis on the MMPI and Rorschach. Prerequisite: MA in Psychology candidate or PI.

80556 Contemporary Social Psychology (3)

Issues, concepts, theories, and research in major areas of social psychology are examined. Prerequisite: MA in Psychology candidate or PI.

80557 Group Dynamics (3)

Examination of principles and processes of group formation, development and change through participation in a laboratory training group. Prerequisite: MA in Psychology candidate or PI.

80558 Seminar in Contemporary Research (3)

Investigation of one or more areas of general experimental psychology: Cognition, developmental, learning, motivation, perception, and/or physiological. Prerequisite: MA in Psychology candidate or PI.

80560 Cognitive Processes (3)

Classical and contemporary theories in the areas of cognitive psychology and cognitive science are examined. Empirical evidence is reviewed. Topics include (but are not limited to) attention, encoding, memory, imagery, psycholinguistics, reasoning, problem solving, artificial intelligence, emotion, and cognitive disorders. Prerequisite: MA Psychology candidate or PI

80561 Individual Intelligence Testing (3)

Examination of the background and development of intelligence testing and practical experience in the administration, scoring and interpretation of the Stanford-Binet, Wechsler Adult Intelligence Scale and Wechsler Intelligence Scale for Children. Prerequisite: MA in Psychology candidate or PI.

80564 Leadership in Small Groups; Theory and Practice (3)

Theory and practice of small group leadership; leadership of an ongoing group under supervision. Prerequisite: 80557 and PI.

80590 Thesis in Psychology (3-6)

Students carry out an acceptable research project under the supervision of a research committee. Required form available

in the Records and Registration Office. Prerequisite: MA in Psychology candidate and PC.

80591, 80592, 80594 Fieldwork in Psychology I, II, III (3 each)

An approved fieldwork experience in psychology to enable students to enrich their academic program with applied work in their field of study. Prerequisite: MA in Psychology candidate, sponsor and PI and PC.

Religious Studies

The interdisciplinary minor in religious studies gives students the opportunity to engage in the study of religion from the perspective of a number of different disciplines, including anthropology, philosophy, history, literature and sociology. Religions of the World is an introductory survey of the principal world religions. Courses in Group I concern religion in general, while those in Group II examine particular religious traditions, texts, practices, and other phenomena.

The coordinator may in individual cases allow credit for appropriate cognate courses or independent study.
Coordinator: J. David Blankenship (Philosophy Department).

Minor

Religious Studies

18 credits

Required Course **3 credits**
71270 Religions of the World (3)

Two of the Courses in Group I **.6 credits**
Group I

07403 Religion and Culture (3)
71320 God, World and Soul (3)
71321 Religion, Ethics and Society (3)
87304 Sociology of Religion (3)

Electives **.9 credits**

These may be selected from Group I (above), Group II, or from selected topics courses which are listed in the Religious Studies section of the Schedule of Classes.

Group II

11360 Arts of Asia I: The Formative Periods (3)
11363 Early Medieval Art (3)
11364 Later Medieval Art: Gothic (3)
11381 Arts of Asia II: The Continuing Tradition (3)
11387 Art of the Islamic World (3)
11410 Art of the Byzantine Empire (3)
41355 The Bible (3)
56205 The Jewish Experience (3)
58336 Religions of China and Japan (3)
58343 History of Islam and the Middle East 570-1918 (3)
58371 World Jewish History I (3)
58380 Saints, Witches & Madwomen (3)
58382 Roman Catholics in the United States (3)
58383 Religion in the United States (3)
58442 Ancient Israel (3)
71251 Indian Philosophy (3)
71252 Introduction to Chinese and Japanese Philosophy (3)

Sociology

Professors:

William W. Philliber, Ph.D., Indiana
Vanderlyn R. Pine, Ph.D., New York University
Herman Schwendinger, Ph.D., California-Los Angeles

Associate Professors:

Harold Jacobs, (Chair), Ph.D., California-Berkeley
David Jaffee, Ph.D., Massachusetts
Dorothy Jessup, Ph.D., Columbia
Susan Lehrer, Ph.D., SUNY-Binghamton
Barbara Scott, Ph.D., New School
Irwin Sperber, Ph.D., California-Berkeley

Assistant Professor:

Todd Quinlan, Ph.D., Cornell

Lecturers:

Mette Christiansen, M.S.W., SUNY-Albany
Karen Rich, M.S.W., Yeshiva University

Sociology studies human society and group life by means of empirical scientific observation and analysis. Theoretical formulations, critical analysis, and historical and empirical inquiry are among the methods of research used by sociologists. Although all aspects of social life are included within the purview of the discipline, sociology tends to focus on contemporary social structures and their bearing on and application to urgent public issues and persistent human concerns.

The following programs and concentrations for majors and minors offer students the opportunity to study the underlying theoretical formulations and the basic analytical tools in sociology. The subject matter of the courses should be useful to students who will have a need to understand people and their relationships to social systems.

Majors

Sociology

33 credits

Required Courses **.15 credits**

87100 Introduction to Sociology (3)
87220 Class and Power in American Society (3)
87230 Sociological Theory and Thought (3)
87240 Sociological Inquiry and Analysis I (3)
87330 Sociological Inquiry and Analysis II (3)

Electives **.18 credits**

Each major candidate is expected to complete, by advisement, 6 additional courses in sociology. A student may apply to the major a total of 3 credits from the following courses: Independent Study, Field Study-Social Agencies, Seminar for Student Assistants, or Seminar for Research Assistants.

Sociology

Direct Care Concentration

66 credits

A special program designed for students who plan to work directly (in a non-medical capacity) with children, adolescents, and adults in residential schools, out-of-home placements, rehabilitation and treatment centers. The program also prepares students for graduate study in related human service fields, such as counseling and social work.

Students interested in the Concentration in Direct Care Practice should apply no later than the last semester of their second year as the CDCP is meant to be taken during students' last two years of study. The program also is suitable as a two-plus-two program for students coming from the surrounding community colleges with whom SUNY-New Paltz has established articulation agreements.

Required Courses12 credits

87100 Introduction to Sociology (3)
87220 Class and Power in American Society (3)
87230 Sociological Theory and Thought (3)
87240 Sociological Inquiry and Analysis (3)

Electives12 credits

Each major candidate is expected to complete, by advisement, 4 additional courses in sociology.

Concentration Core12 credits

Each major candidate is expected to complete 4 seminars in direct care practice, taken consecutively.

Field Work9 credits

Each major candidate is expected to complete 3 courses in field work, taken in conjunction with the last three seminars in direct care practice.

Cognates15 credits

Each major candidate is expected to complete, by advisement, 5 courses in disciplines other than sociology that relate to the theory and practice of direct care work. The selected list of courses are drawn from such fields as Psychology, Educational Studies, Special Education, Philosophy, Black Studies, Communication, and Women's Studies.

Art and Recreation Skills6 credits

Each major candidate is expected to complete, by advisement, 2 courses in art and recreational skills.

Sociology

Social Services Concentration
33 credits

Required Courses21 credits

87100 Introduction to Sociology (3)
87220 Class and Power in American Society (3)
87230 Sociological Theory and Thought (3)
87240 Sociological Inquiry and Analysis (3)
87350 Introduction to Social Work (3)
87455 Social Work Intervention (3)
87480 Field Study - Social Agencies (3)
(GPA of 2.50 required for Field Study)

Electives12 credits

Each major candidate is expected to complete, by advisement, 4 additional courses in sociology.

Minors

Sociology

18 credits

Required Courses9 credits

Three of the following:

87100 Introduction to Sociology (3)
87240 Sociological Inquiry and Analysis (3)

87223 Class and Power in American Society (3)

87230 Sociological Theory and Thought (3)

Electives9 credits

Three additional courses within the Department of Sociology.

Sociology

Social Services
18 credits

Required Courses6 credits

87100 Introduction to Sociology (3)
87350 Introduction to Social Work (3)

Electives12 credits

Four additional courses within the Department of Sociology.

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

87100 Introduction to Sociology (3)

Analysis of social structures and processes in settings ranging from small informal groups to formal organizations and communities to stratification and kinship systems to total societies. Emphasis on applications of major sociological principles and concepts in selected settings.

87220 Class and Power in American Society (3)

Theoretical approaches to the study of social stratification, distribution of wealth, privilege, and power in America and its impact on life styles; family, religious, and other institutions, as well as cultural patterns and personality structures. Subjective class consciousness and ideology of the American dream in relation to the objective structure of opportunity presented by American class structure. Prerequisite: 87100.

87230 Sociological Theory and Thought (3)

Classical and contemporary theories of society are analyzed, with emphasis on critical analysis in historical perspective. Students are expected to become familiar with the enduring problems in sociological thought. Prerequisite: 87100.

87240 Sociological Inquiry and Analysis I (3)

Introduction to sociological analysis and sociology as a research and theoretical discipline. Practical methods for analyzing data through intensive reading of pertinent books and articles and completion of small-scale research projects. Prepares students to formulate sociological problems, examine relevant data, analytically interpret the data, and consider the theoretical, practical and/or applied implications of research findings. Prerequisite: 87100.

87300 Contemporary Social Issues (3)

The application of alternative theoretical perspectives to the study of contemporary social issues. Students will be shown how each specific issue and problem discussed relates to the existence, concentration, and use of power.

87301 Self in Society (3)

Social roles and the experience of personal essence. Depersonalization in large-scale organizations, and self-actualization in the total life cycle.

87302 Contemporary Sociological Theory (3)

Most recent theoretical developments such as systems, models, and structural-functional analysis. Critique of present state of theory.

87304 Sociology of Religion (3)

Analysis of this social institution in simple and complex societies. Study of the work of Durkheim, Weber, Malinowski, Frazer, and others. Prerequisite: 87100.

87305 Juvenile Delinquency (3)

Sociocultural basis of juvenile delinquency and delinquent behavior. Prerequisite: 87100.

87308 Medical Sociology (3)

Social and cultural aspects of health and illness. Prerequisite: 87100.

87309 Population and Society (3)

Population trends and their social implications. Analysis of mortality, fertility, migration, population characteristics, and distribution problems and policies. Prerequisite: 87100.

87310 Comparative Social Structures (3)

Critical examination and comparisons of different forms and mixtures of capitalist, socialist, and communist social economic, and political systems. Students will be offered the opportunity to select, research, and develop the system of one nation-state for oral and written presentation to class for discussion. Prerequisite: 87100.

87311 News Media and Public Opinion (3)

Role and formation of public opinion in modern societies; in particular, the effect of the news media - print and broadcast - on the shaping of political attitudes and behavior. Prerequisite: 87100.

87315 Racial and Ethnic Relations (3)

Relationships between dominant and minority groups; assimilation, ethnic pluralism and conflict among racial, ethnic and religious minorities; race, ethnicity, and class structure; strategies for improving majority-minority relations and the situation of minority groups.

87316 Sociology of War and Conflict (3)

Roots of the contemporary crisis in national and international relations from both historical and sociological perspectives. The causes and prevention of war and the resolution of national and global conflict; specific wars, such as Indochina, are studied in depth. Conflict theories are applied to the data and evaluated in terms of explanatory value and moral and political implications.

87317 Social Ecology (3)

Social relationships among people in their spatial setting; implications of science and technology on patterns of human adaptation to complex environmental changes. Prerequisite: 87100.

87320 Social Structure and the Individual (3)

Reciprocal influences between the individual and society with emphasis on social-cultural factors. Prerequisite: 87100.

87323 Death in American Society (3)

Examination of dying and death as social phenomena, primarily in American society. Meaning of death, personal fears about dying and death, interaction with the dying, care of the dying, children and death, grief, bereavement, funerals, and post-death problems. Although the emphasis is from the sociological perspective, the course includes multidisciplinary assessment of the topic.

87325 The American Left (3)

A history and analysis of the American New Left; topics include the civil rights and black liberation struggles, the student and women's movements, the counterculture, and the anti-Vietnam War protests. Prerequisite: 87100.

87328 Political Sociology (3)

Social conditions influencing political behavior; political structure and dynamics of complex industrial society; mass movement and the conflict of ideologies; totalitarianism and democracy in modern society. Prerequisite: 87100.

87329 Sociology of the Community (3)

Structural-function aspects of different types of communities. Analysis and interpretation of classic community studies. Prerequisite: 87100.

87330 Inquiry and Analysis II (3)

Statistical analysis of data with computer applications. Prerequisite: 87240.

87332 Criminology (3)

Social-cultural bases of crime and criminal behavior. Prerequisite: 87100.

87336 Social Movements (3)

Analysis of the factors in the formation and dynamics of social movements as collective behavior; patterns of growth, development, and disintegration; types of leaders, control mechanisms; ideology and organization. Prerequisite: 87100.

87337 Social Change (3)

Change in the mechanisms of social organization and social behavior as exemplified in customs, mores, institutions, laws, language, and ideologies. Prerequisite: 87100.

87340 Poverty and Society (3)

Historical perspective of social attitudes towards poverty, current explanations of poverty in the United States, and evaluation of strategies for dealing with poverty and unemployment. Prerequisite: 87100.

87345 Cities and Suburbs (3)

Social urbanization and culture of cities and suburbs. New ecological patterns in metropolitan areas and urban planning. Prerequisite: 87100.

87350 Introduction to Social Work (3)

Background and development of social programs and service networks, and the roles and functions of the helping professions; basic values, skills and training techniques in helping relationships; undertaking the clients and the systems in which clients seek help. Prerequisite: Junior standing or PI.

87360 Sociology of Women (3)

Sociological perspective, along with cross-cultural and historical material, used to develop a broad framework for analyzing the position of women in contemporary society. Historical roots of women's protest movements, relations

between women's work in the home and in the work force, life cycle and socialization of women, racism, and sexism. Prerequisite: 87100 or 94220.

87370 Sociology of the Family (3)

Courtship, dating, mate choice, marital adjustment, and interpersonal relations in the context of kinship and family organization.

87371 Sociology of Aging (3)

Social issues and social psychology of the aging in contemporary society in the context of humanistic sociology. Subjective aspects of growing older as revealed by literary sources.

87376 Social Problems (3)

Major forms of social disorganization and maladjustment now confronting American society; the social causes and results of mental and physical ill health, economic insecurity, population changes, old age, industrial hazards, and problems of minority groups.

87379 Sociology of Interpersonal Relationships (3)

Theories of individual-group relationships: role theory, field theory, symbolic interactionism, and neo-Freudian concepts and hypotheses as related to group practice. Prerequisite: 87100.

87380 Social and Economic Development (3)

Study of socio-economic change in developed and underdeveloped societies. Theoretical explanations at the individual, organizational, societal and world-economy levels. Comparison of capitalist, socialist, and statist strategies. Implications for class structure and political economy. Prerequisite: 87100.

87385 Education and Society (3)

Analyzes social forces and processes influencing American education, considering "macro-level" social forces such as historical change, social inequality, and bureaucracy; also, internal "micro-level" school processes and relationships. Prerequisite: 87100.

87407 Industrial Sociology (3)

Social organization of the work place, the management of workers, and industrialism in modern societies. Prerequisite: 87100.

87414 Cancer and Society (3)

Analysis of popular ideologies and attitudes regarding cancer in everyday life; forms of stigma, hysteria and social movement surrounding public response to this disease. Problems in the evaluation of statistical and clinical data regarding rates of mortality and recovery. Cancer prevention versus cancer treatment: cultural and economic forces shaping this debate. Prerequisite: 87100 and sophomore class standing or PI.

87425 Drugs in American Society (3)

A review of the major issues in the study and treatment of drug abuse in their social context. Prerequisite: 87100.

87431 Mass Media and Culture (3)

Examination of the domination of contemporary popular culture by the mass media. Relationship of the media to the economic and political institutions of industrial society particularly in the United States. Prerequisite: 87100 or PI.

87432 Social Policy (3)

Impact of private and governmental policy-making on social institutions and the quality of life in America. Investigations of the growing partnership of the social sciences, foundations, and government in long-range policy planning, the mechanisms of policy formulation and implementation, and the strengths and weaknesses of specific policy outcomes. Special attention to recent social policies affecting education, employment, health care, the environment, crime, urban life, and public welfare. Prerequisite: 87100.

87435 Public Health and Social Policy (3)

Sociological analysis of issues in health delivery services. Prerequisite: 87100.

87442 Direct Care Practice I (3)

Exploration of the generalist model. Preparation to work in the life-space of individuals who have special needs or are experiencing personal or social distress. Emphasis on cross-cultural perspectives and group work processes. Prerequisite: PI.

87443 Direct Care Practice II (3)

Critical examination of knowledge and skills related to working with families and groups. Emphasis on cultural diversity, a variety of intervention approaches, and group work processes. Prerequisite: 87442. Corequisite: 87480.

87444 Direct Care Practice III (3)

Critical examination and acquisition of intervention strategies when working within institutions, communities, and other social systems. Emphasis on social change, ethical decision-making, value-clarification, and group work processes. Prerequisite: 87443. Corequisite: 87480.

87445 Direct Care Practice IV (3)

The capstone course for the Concentration in Direct Care Practice. Critical examination of the professional role and identity of the direct care generalist. Research into and writing of student-selected thesis. Prerequisite: 87444. Corequisite: 87480.

87450 Historical Sociology (3)

The structure of social relations in feudal societies, sociological theories of national transitions to capitalism, modern developments in economic, political, and cultural institutions, and the establishment of bi-lateral exchanges with other societies are the emphasis. Prerequisite: 87100.

87451 Alienation and Mental Illness (3)

A comparative and critical review of those social conditions which systematically produce alienation, competing theories and ideologies of mental illness in light of the literature on alienation, and alternative approaches to the treatment of mental illness from a sociological and historical perspective. Works of Mandel, Horney, Fromm, Szasz, Freud and Reich. Prerequisite: 87100.

87452 Seminar in Criminal Behavior (3)

This seminar is designed to deal with critical issues in the sociology of crime, and it will acquaint students with recent theoretical debates over such topics as the causes, control and prevention of street crimes, white collar crimes, corporate crimes, and crimes against humanity. Prerequisite: 87100, 87332, Social Science Methodology.

87455 Social Work Intervention (3)

Preparation for intervention in individual, family, and organization problem areas through a combination of case

studies, instruction in case presentation methods, and a thorough grounding in relevant social theory, with special emphasis on mental health. Prerequisite: 87350.

87470 Elder Care Internship Seminar (3)

Integrates hands-on internship experience in elder care agencies with readings and seminar discussions on the theory, practice and policy in long-term elder care. Addresses issues in aging, gerontology, and social policy. Prerequisite: PC.

87480 Field Study in Social Agencies (variable credit)

Critique of sociological field methods, agency evaluation and participant observation. Students work at least 6 hours per week in a social, community or welfare agency, meet in weekly seminars, and write a research paper. Prerequisite: PI or PC.

87490 Senior Seminar in Sociology (3)

Organization, execution, and presentation of selected substantive and methodological problems. Prerequisite: Senior sociology major.

Graduate Courses

87500 Social Structure and Change (3)

Structural and dynamic aspects of social systems, social organization and social change. Prerequisite: PI or MA Sociology candidate.

87501 Foundations in Sociological Theory (3)

Basic concepts which provide the means of contemporary analysis of social structure and behavior. Prerequisite: PI or MA Sociology candidate.

87502 The Family in American Culture (3)

Theoretical and structural aspects of American family life. Prerequisite: PI or MA Sociology candidate.

87503 Research Methods (3)

The sociology major delves into a research project, presents data, and defends it. Prerequisite: PI or MA Sociology candidate.

87504 Sociology of Education (3)

Socio-cultural context of education. Social system analysis of school and community. Interpersonal relations between teachers and students. Community power structure and the education process. Prerequisite: PI or MA Sociology candidate.

87511 Sociology of the City (3)

Historical, spatial patterns, and social organizations of cities. Public affairs, social problems, amenities of cities and suburbs systematically observed and analyzed. Prerequisite: PI or MA Sociology candidate.

87514 Cancer and Society (3)

Analysis of popular ideologies and attitudes; problems in the evaluation of statistical and clinical data; cancer prevention versus cancer treatment; and ideological and economic forces shaping this debate. Prerequisite: PI or MA Sociology candidate.

87515 Alienation and Mental Illness (3)

Critical examination of major schools of thought about alienation and mental illness in contemporary society. The effects of social structure and ideology in contemporary society form a sociological and socio-psychological perspective with an eye toward a synthesis of various schools of thought.

Prerequisite: PI or MA Sociology candidate.

87523 Social Gerontology (3)

Problems in the field of aging. Prerequisite: PI or MA Sociology candidate.

87525 Racial and Ethnic Relations (3)

Relationships between dominant and minority groups; ethnic pluralism and conflict among racial, ethnic, and religious minorities; race, ethnicity, and class structure; strategies for improving majority-minority relations and the situation of minority groups. Prerequisite: PI or MA Sociology candidate.

87532 Social Policy (3)

Study partnership of social sciences, foundations and government, and resulting effects on policy. Prerequisite: PI or MA Sociology candidate.

87535 Applied Sociology (3)

Study of the conduct of research designed for specific clients. Emphasis on evaluation and needs-assessment studies. Prerequisite: PI or MA Sociology candidate.

87551 Social Statistics (3)

Studies of commonly used social statistics as measures of central tendency and dispersion, correlation and regression, path analysis, and causal inference techniques in construction of sociological theory, as a practical research device; and as an analytical tool for examining quantitative data. Prerequisite: PI or MA Sociology candidate.

87552 Seminar in Sociological Issues (3)

Critical concerns within the field of sociology. Emphasis upon issues currently unsettled about which more than one theory or position exists. Specific issues reflect the work and interest of the instructor. Prerequisite: PI or MA Sociology candidate.

87553 Seminar in Delinquent Behavior (3)

Sociological issues in the study of causes and characteristics of delinquent behavior; recent trends in the prevention and control of delinquency. Prerequisite: PI or MA Sociology candidate.

87590 Thesis in Sociology (3)

Research under the guidance of a faculty advisor, resulting in a thesis. Required form available in the Records and Registration Office. Prerequisite: PC.

Urban Studies

An interdisciplinary minor in urban studies is available to students interested in advanced work in urban, regional, or community planning; to students seeking teacher certification who expect to enter an urban area; and to liberal arts students who wish to add an urban affairs emphasis to their academic major.

The minor program seeks, through careful advising, to integrate the work of the various academic disciplines into a broad approach to the nature of urban life. The program is of particular interest to students majoring in anthropology, Black studies, economics, English, geography, geology, history, political science, psychology, sociology, or Spanish. Each faculty member involved is also available to advise students interested only in specific courses to strengthen their competence in a given area, such as economics, geography, or education.

Students interested in urban planning may also be interested in the major in geography with emphasis in planning. See the listing under "Geography."

Faculty advisors are: Gerald Benjamin, Political Science; Jay Bloom, Economics; Giselle Hendel-Sebestyen, Anthropology; Zelbert Moore, Black Studies; George Schnell, Geography; Richard Varbero, History (Coordinator).

Minor

Urban Studies 18 credits

Each candidate for a minor in Urban Studies must complete 18 credits selected from among the following courses. At least 12 credits must be taken in core courses outside the student's major department. The remainder may be taken from core courses or supplementary courses listed below.

Core Courses12-18 credits

07510	Urban Anthropology (3)
17350	Contemporary Social Issues in the Black Community (3)
33422	Urban Economic Problems (3)
48526	Urban Planning (3)
58304	Development of the American City (3)
77301	State Politics (3)
77318	Local Politics (3)
87345	Cities and Suburbs (3)

Supplementary Courses0-6 credits

17202	Black History II (3)
17355	The Black Family (3)
17370	Education in the Black Community (3)
48382	Air-Photo Interpretation and Remote Sensing (5)
48410	Regional Planning and Development (3)
48412	Location Analysis in Business and Industry (3)
48560	Problems of Population (3)
58302	American Immigration (3)
58328	American Social and Cultural History: 1877-Present (3)

Women's Studies

The faculty who teach courses in the Women's Studies Program come from a range of departments. Amy Kesselman, Ph.D., Cornell, is based in the Women's Studies Program. Other full-time faculty members include Lee Bell (Educational Studies), Beverly Brumm (Theatre Arts), Eudora Chikwendu (Black Studies), Elisa Davila (Foreign Languages and Latin American Studies Program), Stella Deen (English), Katherine French (History), Irma Goldknopf (English), Adelaide Haas (Communication), Kristine Harris (History), Mary Kahl (Communication), Nancy Kassop (Political Science), Susan Lehrer (Sociology), Carole Levin (History), Nancy Schniedewind (Educational Studies), Barbara Scott (Sociology), Patricia Sullivan (Communication) Ann Trenskey (English) and Margaret Wade-Lewis (Black Studies).

Part-time faculty, many of whom are working professionals in fields related to women's issues, teach several of the interdisciplinary courses, bringing valuable skills and

experience to the program. They include: Mary Davidson, Joanne Ferreira, Michelle Cangelosi, Janice Wood Logan, Sheri Ponzi, Peri Rainbow, Kathy Sarno, Christina Robie, Beth Wilson.

Women's Studies is an interdisciplinary academic program offering a Bachelor of Arts degree, a minor, and a Women's Studies/Elementary Education major. The foundation of the program is the study of women, past and present, in various fields of inquiry. The courses examine the presuppositions of academic disciplines from a feminist, multicultural perspective. They explore aspects of women's social, cultural and political experience in the United States and throughout the world. Some courses are offered through Women's Studies, and others are offered through other college departments. An interdisciplinary course, "Women: Images and Realities" provides the introduction to the program. The Practicum in Women's Studies offers students an opportunity to work in organizations concerned with women's issues. In the senior seminar students do an in-depth research project in a topic of their choosing.

The Women's Studies program supports a variety of campus activities. It often presents lectures and films in conjunction with other organizations and hosts an annual conference about current issues affecting women. A Colloquium series provides a forum for students and faculty to discuss their research in Women's Studies. Because the Women's Studies Program at SUNY New Paltz is committed to improving the position of women on the campus and in the community, the program concerns itself with discrimination against women students and faculty, with affirmative action, and with the general expansion of campus services for women.

Majors

Women's Studies 34 credits

Required Courses19 credits

94220	Women: Images and Realities (4)
94420	Practicum in Women's Studies (3)
94490	Seminar in Women's Studies (3)

"Women in History and Society"

One of the following:

17221	The Black Woman (3)
94311	Women and Work (3)
94316	History of Women in the United States to 1890 (3)
94317	History of Women in the United States from 1890 (3)

"Women as Individuals in Society"

One of the following:

38351	Education of Self (3)
41323	Women in Literature: A Contemporary View (3)
80350	Psychology of Women (3)

"Theoretical Perspectives"

One of the following:

07421	Cross-Cultural Perspective on the Status of Women (3)
77393	Women, Law, and Public Policy (3)
94422	Women, Power and Organizations (3)

Option I or Option II15 credits

Option III31 credits

Option I

(Single Major in Women's Studies)

Three courses (9 credits) from one of the following fields of emphasis (courses counted toward the required courses, above, may not also be counted toward the field of emphasis).

Literature, Communication Arts, Visual Arts & Theatre

- 41186 Composition II: Women (3)
- 41323 Women in Literature: A Contemporary View (3)
- 41324 Women in 20th-Century Literature (3)
- 41474 Virginia Woolf (3)
- 41514 Female Heroes of Fiction: Twentieth Century (3)
- 71356 Linguistics and Gender (3)
- 90356 Communication and Dissenting Voices (3)
- 90412 Gender and Communication (3)

Theoretical Perspectives

- 07421 Cross-Cultural Perspective on the Status of Women (3)
- 38581 Issues of Racism and Sexism in Education (3)
- 71355 Contemporary Feminist Theory (3)
- 77393 Women, Law, and Public Policy (3)
- 87360 Sociology of Women (3)
- 94422 Women, Power and Organizations (3)
- 94493 Feminist Thought (3)

Human Services and Social Change

- 17221 The Black Woman (3)
- 38351 Education of Self (Women) (3)
- 38581 Issues of Racism and Sexism in Education (3)
- 77365 Sex Discrimination and the Law (3)
- 77393 Women, Law and Public Policy (3)
- 80350 Psychology of Women (3)
- 87360 Sociology of Women (3)
- 94299 Birth Control and Sexual Health (1)
- 94311 Women and Work (3)
- 94314 Violence Against Women (3)
- 94315 Women with Women (3)
- 94399 Peer Education in Sexual Health (1)

History, Politics and Work

- 17221 The Black Woman (3)
- 58380 Saints, Witches, and Madwomen (3)
- 58393 Women in China and Japan (3)
- 77393 Women, Law, and Public Policy (3)
- 77365 Sex Discrimination and the Law (3)
- 94311 Women and Work (3)
- 94316 History of Women in the United States to 1890 (3)
- 94317 History of Women in the United States from 1890 (3)
- 94422 Women, Power and Organizations (3)

Female Development and Health

- 38351 Education of Self (Women) (3)
- 73407 Human Sexuality (3)
- 80350 Psychology of Women (3)
- 94299 Birth Control and Sexual Health (1)
- 94314 Violence Against Women (3)
- 94315 Women with Women (3)
- 94399 Peer Education in Sexual Health (1)
- 94515 Women and Health (3)

Electives6 credits

Each candidate under option I must complete two additional courses (6 credits) under advisement.

Option II

(Double major in Women's Studies and another discipline.) Five Women's Studies courses chosen to complement the student's other major. Because careful planning is required, the student should select a Women's Studies advisor before planning the program of study.

In either option, at least one half of the courses taken for the Women's Studies major must be upper-division courses.

Option III

**Women's Studies/Elementary Education Major
31 credits**

Required Courses15-16 credits

- 58316 History of Women in the United States to 1890 (3)
- 58317 History of Women in the United States from 1890 (3)
- 90412 Gender and Communication (3)
- 94220 Women: Images and Realities (4)
- 94490 Seminar in Women's Studies (3)

Women, Culture and Society

One of the following:

- 41323 Women in Literature: A Contemporary View (3)
- 87360 Sociology of Women (3)
- 94314 Violence Against Women (3)
- 94315 Women with Women (3)

Politics and Work

One of the following:

- 38581 Issues of Racism and Sexism in Education (3)
- 77365 Sex Discrimination and the Law (3)
- 77393 Women, Law and Public Policy (3)
- 94311 Women and Work (3)
- 94422 Women, Power and Organizations (3)

Multicultural Perspectives

One of the following:

- 07421 Cross-Cultural Perspective on the Status of Women (3)
- 17221 The Black Woman (3)
- 38581 Issues of Racism and Sexism in Education (3)
- 58393 Women in China and Japan (3)
- 94393 Latinas in the U.S. (3)

Female Development, Health and Sexuality

One of the following:

- 73407 Human Sexuality (3)
- 80350 Psychology of Women (3)
- 94515 Women and Health (3)

OR

Three modulators:

- 94299 Birth Control and Sexual Health (1)
- 94399 Peer Education in Sexual Health (1)
- 94399 Rape and Sexual Abuse [to be developed] (1)

Electives6 credits

NOTE: Students will also need to complete Elementary Education requirements, as listed under Education major.

Minor

Women's Studies

19 credits

Required Courses13 credits

94220 Women: Images and Realities (4)

"Women and Society"

One of the following:

07421 Cross-Cultural Perspective on the Status of Women (3)

17221 The Black Woman (3)

38581 Issues of Racism and Sexism in Education (3)

58316 History of Women in the United States to 1890 (3)

58317 History of Women in the United States from 1890 (3)

77365 Sex Discrimination and the Law (3)

87360 Sociology of Women (3)

94311 Women and Work (3)

94314 Violence Against Women (3)

94315 Women with Women (3)

94393 Latinas in the U.S. (3)

"Women as Individuals"

One of the following:

38351 Education of Self (Women) (3)

41186 Composition II: Women (3)

41323 Women in Literature: A Contemporary View (3)

58380 Saints, Witches, and Madwomen (3)

80350 Psychology of Women (3)

94312 Introduction to Reproductive Health: Theory & Practicum(3)

"Theoretical Perspectives"

One of the following:

07421 Cross-Cultural Perspective on the Status of Women (3)

71355 Contemporary Feminist Theory (3)

71356 Linguistics and Gender (3)

77393 Women, Law and Public Policy (3)

77443 Sex Discrimination and the Law (3)

94422 Women, Power and Organizations (3)

Under advisement, certain selected topics courses may be substituted for courses in the above three groups.

Electives6 credits

Liberal Arts Designation

All courses count toward the liberal arts requirement.

Undergraduate Courses

Descriptions for cross-listed Women's Studies courses may be found under the appropriate headings elsewhere in this catalog. Below are interdisciplinary courses based in the Women's Studies Program.

In addition to the following, selected topics, fieldwork, independent study, and modular courses may be offered. See "Academic Policies/Regulations" in this catalog.

94220 Women: Images and Realities (4)

An examination of the myths surrounding women's role in American society and the realities of women's lives, with a

focus on both common experiences and cultural variation. Attention is given to issues raised by contemporary feminism.

94311 Women and Work (3)

Integration of perspectives and materials from a variety of disciplines to explore the experience of working women in the United States. Topics include: historical accounts; effects of the family, political system and economic structure on women's work; and alternatives for meaningful work.

94314 Violence Against Women (3)

An examination of violence against women in contemporary culture: rape, battery, sexual abuse and violence in the media.

94315 Women With Women (3)

A study of women who choose to build lives with other women. Includes both a historical survey and an analysis of issues facing lesbians in contemporary society.

94316 History of Women in the United States to 1890 (3)

A survey of the history of women from 1620-1890, examining changes in women's private and public lives with attention to the differences among women of varying regional, racial and economic backgrounds.

94317 History of Women in the United States from 1890 (3)

A survey of the history of women from 1890-1990, examining changes in women's private and public lives with attention to the differences among women of varying regional, racial and economic backgrounds.

94415 Women and Health (3)

Women's health issues from an interdisciplinary perspective. History and structure of the medical establishment as it affects women consumers. Designed for lay persons, this course will increase understanding of women and health care and foster informed decision-making.

94420 Practicum in Women's Studies (3)

Work in an organization or action project that serves or advocates for women. Participate in a seminar that analyzes various approaches to improving women's lives and integrates feminist theory and practice. Prerequisite: 94220 or PI.

94422 Women, Power and Organizations (3)

An exploration of the position of women in public and private organizations, including the effect of institutional sexism and approaches to change. Comparison of traditional and alternative models regarding the distribution of power and the implementation of goals and policies.

94490 Seminar in Women's Studies (3)

A critical, interdisciplinary approach to advanced topics in Women's Studies. The focus of the course will vary year to year. Students will work on a major research project of their choice. Open only to Women's Studies majors.

Graduate Courses

94515 Women and Health (3)

Women's health issues from an interdisciplinary perspective. History and structure of the medical establishment as it affects women consumers. Designed for lay persons, this course will increase understanding of women and health care, and foster informed decision making.

94516 Contemporary Women's Issues (3)

Examination of women's experience in the United States including discussion of socialization, education, language, health, aging, reproductive technology, the family and domestic violence. While the primary focus will be on the U.S., there will be a brief examination of issues being raised by the international feminist movement. Particular attention will be paid to issues of concern to teachers.

Pamlyn Atkins

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Carlton Bacon

M.S., Naval Post Graduate School
Director Institutional Research

Richard Barnhart

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Gerald Benjamin

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Dean of Enrollment Management

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Community Relations and
Director, Institute for Development,
Planning and Land Use Studies

Lan Ying Fan

M.L.S. Information Science
Director, Haggerty Institute/ESL

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M.D., Cornell University Medical
College
Director of Health Center

Tonda Highley

M.S., Kansas State University
Director of Career Development

Owen Hill

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Business Administration and
Director of Engineering Programs

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Mary M. Kastner

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David Kayajian

M.A., Rutgers
Director of Alumni Affairs

Kathy Kraus

M.B.A., Marist College
Director, Continuing & Professional
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Chui-chun Lee

M.S.L.S., Syracuse University
Director of Sojourner Truth Library

Jonathan D. Lewit

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Director of Computer Center

Martin Lodge

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College Recorder

Gretchen Madoff

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Assistant Vice President for Sponsored
Funds

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Registrar

Robert Mumper

D.M., Indiana University
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School

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Director of College Activities

Patricia Phillips

B.A. Muhlenberg College
 Dean of School of Fine & Performing Arts

Kristen N. Proctor

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 Director, Disabled Student Services

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 Director of Telecommunications

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Alan Ridnour

B.A., University of Iowa
 Deputy Director of Operations

Hadi Salavitabar

Ph.D. SUNY Binghamton
 Associate Dean of School of Engineering and Business Administration and Director of Business Programs

Raymond M. Schwarz

Ph.D., Auburn University
 Acting Assistant Vice President for Student Affairs

Bruce Sillner

M.A., Marywood College
 Director of International Education

Daniel Sistarenik

M.S., SUNY Plattsburgh
 Director of Financial Aid

David Smith

A.A.S., SUNY Delhi
 Campus Architect

Karen Summerlin

B.F.A., Ohio University
 Assistant Vice President for Public Affairs

Neil C. Trager

B.A. City College
 RECIPIENT OF CHANCELLOR'S AWARD FOR EXCELLENCE IN PROFESSIONAL SERVICE 1994-95
 Director, Samuel Dorsky Art Museum

Richard Varbero

Ph.D., Temple University
 Associate Dean of College of Liberal Arts and Sciences

William W. Vasse

Ph.D., University of California, Berkeley
 Vice President for Academic Affairs

Walter Wontz

B.F.A., Syracuse University
 Purchasing Agent

James A. Zalacca

M.A.T., Depauw University
 Director of Intercollegiate Athletics

Presidents Emeriti

Alice Chandler
1980-1996

Jerome B. Komisar
(Acting) 1979-1980

Stanley K. Coffman
1972-1979

John J. Neumaier
1968-1972

Emeriti Faculty

Abrams, F. Russell
Elementary Education

Afzal, Manuchehr
Educational Studies

Alexander, Peter
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1974-75
Music

Allenson, William
Art Studio

Archard, Merrill H.
Elementary Education

Argulewicz, Emma
English

Attanasio, Frederick
Communication/Media

Audenaerde, Karl
Engineering

Auster, Albert
Communication/Media

Baker, Douglas
Biology

Bakum, Vladimir
Foreign Language, French

Barnett, Irving
Economics

Barr, Thomas
Music

Bartsch, William
Art Studio

Baxter, Lindly
Elementary Education

Beachem, Katherine
Elementary Education

Bernstein, Burton
Physics

Bindman, Aaron
Sociology

Bodanza, Samuel
Educational Studies

Bogarad, Allen
Communication/Media

Bohan, Peter
Art History

Bonali, Gloria
Physical Education

Bond, George W.
Elementary Education

Borenstein, Walter
Foreign Language, Spanish

Boulos, Sami I.
Elementary Education

Bromberg, Manuel
Art Studio

Budmen, Karl
Secondary Education

Burdick, John
Secondary Education

Burr, Alfred G.
English

Butler, Marjorie
Black Studies

Cabrera, Rosa M.
Foreign Language, Spanish

Cash, Arthur
Distinguished Professor
English

Castellana, Joseph
Educational Studies

Cohen, Howard
Psychology

Corry, Mary Jane
Music

Coulter, Celia
Library

Crawford, Jack
English

Danowski, Charles
Educational Administration &
Supervision

Eckelt, Frank
Educational Administration &
Supervision

Elliott, Charles
Communication/Media

Ervin, Kenneth
Art Studio

Eulie, Joseph
Secondary Education

Faulkner, James C.
Foreign Language

Fein, Richard
English

Fenley, George
Learning Resource Center

Feuerlight, Ignace I.
Foreign Language, German

Finn, William J.
Art Studio

Fleisher, Harold
Physics

Forrester, James K.
Elementary Education

Fractenberg, David
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1977-78
Communication

Francois, Pierre
RECIPIENT OF ORDER OF THE
PALMES
ACADÉMIQUES, KNIGHT 1974
Foreign Language, French

Frank, John
Art Studio

Gaige, Helen
Art Education

Gillon, Adam
English

Glasgow, Jon
Geography

Goldknopf, David
English

Goodrich, James
Library

Green, Kenneth
Art Studio

Greenfield, Jerome
English

Groves, Mary Deane
Physical Education

Hain, John
Secondary Education

Harkavy, Allan
Physics

Harkonen, Helen
Art History

Hathaway, Richard
English

Hayes, Dorothy T.
DISTINGUISHED SERVICE
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Educational Studies

Heyl, George R.
Geological Sciences

Holliday, Robert
Elementary Education

Holmes, Larry
Philosophy

Huyler, David
History

Igou, O. Lincoln
Music

Impola, Richard
English

Irvine, Rose
Communication

Jacobs, Milton
Anthropology

Jessup, Dorothy
Sociology

Jewitt, Mary Jane
van den Berg Learning Center

Johnson, Sipra
Anthropology

Jones, Morgan
English

Jones, Ruth
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Karash, Boris
Sociology

Kerr, Albert
Library

Kessler, Charles
Art History

Kingman, Margaret M.
Geography

Klix, Richard
Educational Administration &
Supervision

Kochant, Helen
Elementary Education

Krieg, David
Biology

Kurdt, Raymond
Theatre Arts

Lewis, Marion
Nursing

Littlefield, Evan B.
Secondary Education

Lustig, Ethel
Library

Lutze, Margaret
Physical Education

Lyon, Judson S.
English

Mabee, Carleton
History

Marks, Alfred
English

Martin, Alexander
Art Studio

Martin, Cecile
Secondary Education

Matzdorf, Kurt
Art Studio

Maulucci, Fred
Communication/Media

McBride, Richard E.
Educational Administration &
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McKnight, Betty
Elementary Education

Metzger, Leonard Paul
Sociology

Mullins, Cecile
Secondary Education

Munsterberg, Hugo
Art History

Neilson, E. Miller
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Newburger, Stanley
Philosophy

Nichols, Lois
Elementary Education

Nickles, Mary
English

Nightingale, David
Physics

Nydegger, LeRoy
Biology

Oakley, Leslie
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Odeneal, William
Physical Education

O'Donnell, Mary Kelly
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Osburg, Helen
Biology

Otteson, Milton
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Owens, Joseph
Physical Education

Pap, Leo
Foreign Language, Linguistics

Patsis, Angelos
Chemistry

Peterson, Richard
Art Education

Prisch, Jessie
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Pyle, Robert W.
Biology

Rader, Ann
Physical Education

Raleigh, Henry
Art Studio

Recchia, Maurice
Elementary Education

Rein, Joanne
Library

Robertson, James
Educational Studies

Roper, Donald
History

Sanders, Joop
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Santora, Olga
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Sauer, Jean
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Sayre, Johanna
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Schwartz, Sheila
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Sebestyen, Zoltan
Economics

Sedestrom, Robert
Art Studio

Shands, Richard
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Shapiro, Maude
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Shepherd, Richard
Library

Sheppard, Douglas
Physical Education

Sherman, Mark
Psychology

Simpson, George
Educational Administration &
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Skelton, Kenneth
Sociology

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Secondary Education

Spencer, Selden
Biology

St. Onge, Henry
English

Stein, Dale
DISTINGUISHED TEACHING
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EMERITUS
Art Studio

Steinberg, Ronald
Political Science

Stevens, Lillian
Elementary Education

Strothenke, Robert J.
Music

Sullivan, George
Educational Administration &
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Sullivan, Lawrence
English

Thornton, Robert D.
English

Tuttle, Edwin A.
Elementary Education

Tyson, Raymond
Communication/Media

Veghte, Richard
Physics

Vernon, Howard
History

Vreeland, Jane
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Vukasin Peter
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Walker, Evelyn Acomb
History

Weber, Hans
Foreign Language, German

Weiss, Irving
English

Wexler, George
Art Studio

White, Byron J.
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Wigfall, Benjamin
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Faculty

Abate, Ellen

1989
Lecturer, Nursing
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1994
Assistant Professor, Foreign Languages
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Adams, Michael

1979
Professor, Mathematics & Computer
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Adae, Rebecca

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Language Lab Coordinator, English as a
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Associate Professor, History
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Alphonso-Karkala, John

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Anastasio, Salvatore

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Appelbaum, David

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Arnold, M. Robin

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Associate Professor, Art Studio
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Bagley, Arilee

1986
Lecturer, Business Administration
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Balant, Anne

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1977
Lecturer, Theatre Arts
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American Ballet Theatre
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Barker, Joan

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Librarian, Library
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M.M. University of Illinois

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Ph.D. University of Nottingham,
England

Feliciano, Wilma

1985
Associate Professor, Foreign Languages
(Spanish)
Ph.D. State University of New York,
Albany

Feltsman, Vladimir

1987
DISTINGUISHED UNIVERSITY
PROFESSOR
Professor, Music
D.M.A. Moscow Conservatory

Ferro, John

1971
Assistant Professor, Art Studio
M.F.A. Yale University

Fialkow, Lawrence

1983
Professor, Mathematics & Computer
Science
Ph.D. University of Michigan

Finnestad, Tove

1996
Assistant Professor, Philosophy
Ph.D., University of Rochester

Freeman, Phyllis

1975
Associate Professor, Psychology
Ph.D. Bryn Mawr College

French, Katherine L.

1993
Assistant Professor, History
Ph.D. University of Minnesota

Garlick, Peter

1967
Professor, Economics
Ph.D. University of London

Gawer, Albert

1969
Assistant Professor, Chemistry
Ph.D. Columbia University

Gayle, Michael

1993
Assistant Professor, Psychology
Ph.D. State University of New York,
Stony Brook

Gill, Deena S.

1995
Assistant Professor, Nursing
Ed.D. Teachers College, Columbia

Goldknopf, Irma

1967
Associate Professor, English
Ph.D. Syracuse University

Gonzalez, Julio

1993
Assistant Professor, Electrical
Engineering
Ph.D. Colorado State University

Good, Howard

1985
Professor, Communication/Media
Ph.D. University of Michigan

Goodell, Kathy

1993
Assistant Professor, Art Studio
M.F.A. San Francisco Art Institute

Goodman, Diane

1996
Assistant Professor, Educational
Studies
Ed.D. University of Massachusetts

Grace, Jacqueline

1989
Lecturer, Mathematics & Computer
Science
M.S. Western Washington State

Green, Shelly

1996
Lecturer, Communication/Media
M.S. Columbia University

Greenow, Linda

1985
Associate Professor, Geography
Ph.D. Syracuse University

Gropper, Nancy

1990
Associate Professor, Elementary
Education
Ed.D. Columbia University

Haas, Adelaide

1962
Professor, Communication/Media
Ph.D. Columbia University

Haas, Kurt

1962
Professor, Psychology
Ph.D. Pennsylvania State University

Hack, Arthur

1968
Associate Professor, English
Ph.D. University of Wisconsin

Halpern, James

1973
Professor, Psychology
Ph.D. New School for Social Research

Halpern, Richard

1985
Associate Professor, Mathematics &
Computer Science
Ph.D. New York University

Hardgrave, Barbara

1967
Professor, Music
M.M. New England Conservatory of
Music

Harismendy-Lony, Sandrine

1994
Assistant Professor, Foreign Languages
Ph.D. University of California, Santa
Barbara

Harris, Kristine

1996
Assistant Professor, History
M.A. Columbia University

Hauptman, Laurence

1971
RECIPIENT OF NYS/UUP
EXCELLENCE AWARD 1991
Professor, History
Ph.D. New York University

Hayes, Stanley

1969
Associate Professor, Mathematics &
Computer Science
Ph.D. University of Texas

Heath, Eugene

1993
Assistant Professor, Philosophy
Ph.D. Yale University

Heiner, Karl

1984
Associate Professor, Business
Administration
Ed.D. Columbia University

Hendel-Sebestyen, Giselle

1968
Associate Professor, Anthropology
Ph.D. Columbia University

Hill, Lester Owen

1990
Professor, Engineering
Ph.D. University of California, Berkeley

Hind, Michael J.

1992
Assistant Professor, Mathematics &
Computer Science
Ph.D. New York University

Ho, Hon Hing

1968
Professor, Biology
Ph.D. University of Western Ontario

Hobby, David C.

1985
Assistant Professor, Mathematics &
Computer Science
Ph.D. University of California, Berkeley

Hoener, Arthur

1993
Assistant Professor, Art
M.F.A. Rhode Island School of Design

Hofstetter, Elaine B.

1990
Assistant Professor, Secondary
Education
Ed.D. Columbia University

Ingram, Katherine H.

1987
Associate Professor, Theatre Arts
M.F.A. University of Alabama

Jacobs, Harold S.

1971
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1974-75
Associate Professor, Sociology
Ph.D. University of California, Berkeley

Jaffee, David

1985
Associate Professor, Sociology
Ph.D. University of Massachusetts

Jensen, Harry

1965
Assistant Professor, Music
M.M. Northwestern University

Judd, Stephen

1995
Assistant Professor, Theatre Arts
M.F.A. University of Georgia

Kahl, Mary

1990
Assistant Professor,
Communication/Media
M.A. Indiana University at
Bloomington

Kalhor, Hassan

1986
Professor, Engineering
Ph.D. University of California, Berkeley

Kassop, Nancy

1984
Associate Professor, Political Science
Ph.D. New York University

Katims, Ide

1984
Associate Professor, Nursing
Ph.D. Adelphi University

Kelder, Richard

1984
Instructional Staff, Learning Resource
Center
M.A. State University of New York, New
Paltz

Kempton, Daniel

1990
Associate Professor, English
Ph.D. University of California, Santa
Cruz

Kerwin, Christine

1995
Assistant Professor, Educational
Studies
Ph.D. Fordham University

Kesselman, Amy

1981
Professor, Women's Studies
Ph.D. Cornell University

Kitzmann, Gerald

1962
Associate Professor, Physics
Ph.D. New York University

Knapp, Ronald

1968
Professor, Geography
Ph.D. University of Pittsburgh

Kolitch, Elaine

1993
Assistant Professor, Mathematics &
Computer Science
Ph.D. University of Colorado, Boulder

Konigsberg, Alvin

1968
Associate Professor, Geological Sciences
Ph.D. Syracuse University

Kossmann, Rudolf

1967
Professor, English
Dr. Litt. Leyden University

Kraat, Frank

1969
Professor, Theatre Arts
M.A.T. Indiana University

Krikun, David

1965
Associate Professor, History
Ph.D. University of Wisconsin

Krout, Robert

1982
Associate Professor, Music
Ed.D. Columbia University

Krug-Boese, Christine

1990
Lecturer, English as a Second Language
M.S. State University of New York, New
Paltz

Kudzin, Stanley

1962
Professor, Chemistry
Ph.D. Fordham University

Labiosa, David J.

1992
Assistant Professor, Foreign Languages
(Spanish)
Ph.D. University of Michigan

Lashley, Carl

1993
Assistant Professor, Educational
Administration
Ed.D. Indiana University

Lee, Chui-chun

1969
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN LIBRARIANSHIP
1989-90
Librarian, Library
M.S.L.S. Syracuse University

Lee, Loyd

1967
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1991-92
Professor, History
Ph.D. Cornell University

Lehrer, Susan

1973
Associate Professor, Sociology
Ph.D. State University of New York,
Binghamton

Levin, Carole

1984
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1990-91
Professor, History
Ph.D. Tufts University

Li, Keqin

1990
Associate Professor, Mathematics &
Computer Science
Ph.D. University of Houston

Lober, Irene

1985
Professor, Educational Administration
Ed.D. Virginia Polytechnic Institute

Lovett, Sarah Ann

1982
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1989-90
Professor, Art Studio
M.F.A. Temple University

Lundergan, Edward

1993
Assistant Professor, Music
D.M.A. University of Texas

Mack, Kari

1994
Assistant Librarian
M.L.S. State University of New York,
Albany

Mahoney, Shafer

1994
Assistant Professor, Music
Ph.D., University of Rochester

Mano, Joan

1980
Associate Professor, Geography
Ph.D. Columbia University

Manos, Constantine

1964
Professor, Geological Sciences
Ph.D. University of Illinois

McCann, William

1968
Professor, Music
D.M.A. Catholic University

McNitt, F. Glenn

1973
Assistant Professor, Political Science
Ph.D. Pennsylvania State University

Meador, Clifton

1994
Assistant Professor, Art
M.F.A. State University of New York,
Purchase

Mendelsohn, Leatrice

1993
Assistant Professor, Art History
Ph.D. New York University

Meng, Heinz

1951
RECIPIENT OF NYS/UUP
EXCELLENCE AWARD 1990
Professor, Biology
Ph.D. Cornell University

Michael, Robert

1974
Professor, Educational Studies
Ph.D. Fordham University

Mimlitsch-Gray, Myra

1993
Associate Professor, Art Studio
M.F.A. Cranbrook Academy of Art

Miraldi, Robert

1982
Professor, Communication/Media
Ph.D. New York University

Montgomery, Winifred

1994
Assistant Professor, Elementary
Education
Ph.D. University of California, Berkeley

Moore, Zelbert

1983
Assistant Professor, Black Studies
Ph.D. Temple University

Moran, Denis

1973
Professor, Biology
Ph.D. New York University

Morrow, Maureen A.

1994
Assistant Professor, Biology
Ph.D. Columbia University

Morse, David

1968
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1973-74
Associate Professor, Psychology
Ph.D. Purdue University

Mozayeni, Simin

1990
Assistant Professor, Economics
Ph.D. Columbia University

Mumper, Robert

1963
Associate Professor, Music
D.Mus. Indiana University

Nash, Alison

1987
Associate Professor, Psychology
Ph.D. State University of New York,
Stony Brook

Nemerofsky, Arnold

1961
Associate Professor, Biology
M.S. University of Rochester

Neslund, Kristofer

1996
Assistant Professor, Business
Administration
Ph.D. University of Arizona

Neuman, Joel

1989
Assistant Professor, Business
Administration
Ph.D. State University of New York,
Albany

Norton, Marcia M.

1975
Professor, Educational Administration
Ed.D. Columbia University

Nye, Robert

1970
Professor, Psychology
Ph.D. George Washington University

Nyquist, Corinne

1968
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN LIBRARIANSHIP
1985-86
Librarian, Library
M.A.L.S. University of Minnesota

Panman, Richard

1966
Associate Professor, Psychology
Ph.D. University of Iowa

Paparone, Joseph

1970
Professor, Theatre Arts
Ph.D. Indiana University

Patterson, Gary

1997
Assistant Professor, Business
Administration
Ph.D. North Carolina

Paz, Francis X.

1966
Associate Professor, English
Ph.D. Columbia University

Philliber, William

1977
Professor, Sociology
Ph.D. Indiana University

Phillips, Patricia

1991
Professor, Art Studio
B.A. Muhlenberg College

Pierce, B. Edward

1971
Associate Professor, Anthropology
Ph.D. Tulane University

Piluso, Robert

1967
Professor, Foreign Languages (Spanish)
Ph.D. New York University

Pine, Vanderlyn

1971
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1974-75
Professor, Sociology
Ph.D. New York University

Piotrowski, Michael

1996
Lecturer, Theatre Arts
B.S. Art Education State University of
New York, New Paltz

Pletch, Andrew

1984
Assistant Professor, Mathematics &
Computer Science
Ph.D. Carleton University

Presbie, Robert

1967
Professor, Psychology
Ph.D. Tulane University

Pritchard, Lee

1965
Professor, Music
M.M. Indiana University

Quinlan, Todd

1993
Assistant Professor, Sociology
Ph.D. Cornell University

Ramos, Joseph

1975
Associate Professor, Art Studio
M.F.A. Yale University

Raskin, Jonathan

1996
Assistant Professor, Psychology
Ph.D. University of Florida

Rauch, Kristin

1993
Assistant Professor, Art Education
Ed.D. University of North Carolina

Ravishankar, Krishnamurthi

1985
Associate Professor, Mathematics &
Computer Science
Ph.D. Yeshiva University

Redmond, Billy Lee

1973
Professor, Biology
Ph.D. Cornell University

Reif, Richard

1993
Associate Professor, Secondary
Education
Ph.D. University of New Mexico

Rhoads, William

1970
Professor, Art History
Ph.D. Princeton University

Rich, Karen

1994
Lecturer, Sociology
M.S.W. Yeshiva University

Richards, Eleanor

1997
Visiting Associate Professor, Nursing
Ph.D. Aldelphi

Rietsma, Carol

1972
Associate Professor, Biology
Ph.D. Rutgers University

Robinson, Anthony

1964
Associate Professor, English
M.A. Columbia University

Roehm, Mary

1991
Professor, Art Studio
M.F.A. Rochester Institute of
Technology

Roper, Louis

1994
Assistant Professor, History
Ph.D. University of Rochester

Rost-Lewis, Lisa

1989
Lecturer, English as a Second Language
M.A. Eastern Michigan University

Ruckert, Martin

1992
Assistant Professor, Mathematics &
Computer Science
Dr. Rer. Nat. Ludwig-Maximilians
University of Munich

Rudnitski, Rose

1992
Associate Professor, Elementary
Education
Ed.D. Columbia University

Rutstein, Martin

1970
Professor, Geological Sciences
Ph.D. Brown University

Rutuelo, John

1995
Assistant Professor, Theatre Arts
M.F.A. Pennsylvania State

Ryan, Marleigh Grayer

1981
Professor, Foreign Languages
(Japanese)
Ph.D. Columbia University

Saavedra-Hernandez, Rafael

1990
Assistant Professor, Foreign Languages
(Spanish)
Ph.D. State University of New York,
Albany

Saed, Mohammad

1989
Associate Professor, Engineering
Ph.D. Virginia Polytechnic Institute &
State University

Salavitabar, Hadi

1982
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1990-91
Associate Professor, Business
Administration
Ph.D. State University of New York,
Binghamton

Salend, Spencer

1981
Professor, Educational Studies
Ed.D. University of Kentucky

Samelson, Sandra

1990
Assistant Professor, Mathematics &
Computer Science
Ph.D. Carnegie Mellon University

Sankappanavar, Hanamantagouda

1981
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1989-90
Professor, Mathematics & Computer
Science
Ph.D. University of Waterloo

Saraceno, Louis

1965
Associate Professor, Foreign Languages
(Spanish) & Secondary Education
Doctor en Filosofia y Letras, University
of Seville

Sawyer, Mary

1995
Assistant Professor, Secondary
Education
Ph.D. State University of New York,
Albany

Schiff, Donald

1963
Professor, Psychology
Ph.D. New York University

Schiffman, David

1969
Associate Professor, Psychology
Ph.D. Yeshiva University

Schmidt, Jan Z.

1985
Associate Professor, English
Ph.D. Syracuse University

Schmidt, Wilma

1993
Sr. Assistant Librarian
M.L.S. State University of New York,
Albany

Schnell, George

1962
RECIPIENT OF NYS/UUP
EXCELLENCE AWARD 1990
Professor, Geography
Ph.D. Pennsylvania State University

Schniedewind, Nancy

1975
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1977-78
Professor, Educational Studies
Ed.D. University of Massachusetts

Schultz, Sally

1984
Assistant Professor, Business
Administration
Ph.D. Pennsylvania State University

Schwendinger, Herman

1977
RECIPIENT OF NYS/UUP
EXCELLENCE AWARD 1991
Professor, Sociology
Ph.D. University of California, Los
Angeles

Scott, Barbara

1973
Associate Professor, Sociology
Ph.D. New School for Social Research

Scott, James D.

1996
Assistant Professor, Theatre Arts
M.F.A. University of Connecticut

Seaholm, Frances

1968
Associate Librarian, Library
M.A.L.S. University of Minnesota

Sener, Tulin

1984
Associate Professor, Business
Administration
Ph.D. Claremont Graduate School

Seshu, Chigurupati

1967
Associate Professor, Economics
Ph.D. New School for Social Research

Sgroi, Laura

1987
Associate Professor, Elementary
Education
Ed.D. Columbia University

Sigal, Ron

1995
Visiting Assistant Professor,
Mathematics & Computer Science
Ph.D. New York University

Silberger, Donald

1983
Associate Professor, Mathematics &
Computer Science
Ph.D. University of Washington

Smith, James

1976
Associate Professor,
Communication/Media
Ph.D. Pennsylvania State University

Sorin, Gerald

1965
DISTINGUISHED TEACHING
PROFESSOR 1993-94
Professor, History
Ph.D. Columbia University

Spangler, Lynn

1983
Associate Professor,
Communication/Media
Ph.D. Wayne State University

Sperber, Irwin

1972
Associate Professor, Sociology
Ph.D. University of California, Berkeley

Spring, Joel

1993
Professor, Educational Studies
Ph.D. University of Wisconsin

Stack, Barbara

1994
Lecturer, Nursing
M.S.N. College of New Rochelle

Stacklum, Margaret

1982
Associate Professor, Nursing
Ed.D. Columbia University

Stein, Philip

1968
Associate Professor, Biology
Ph.D. University of Geneva

Stoneback, Harry

1969
Professor, English
Ph.D. Vanderbilt University

Straus, David

1973
Associate Professor, Chemistry
Ph.D. University of Chicago

Strongin, William

1988
Lecturer, History/Jewish Studies
M.T.S. Harvard Divinity School

Sullivan, Patricia

1990
Associate Professor,
Communication/Media
Ph.D. University of Iowa

Swartz, Dan E.

1993
Assistant Professor, Theatre Arts
M.A. Indiana University

Taylor, Lorraine

1975
Professor, Educational Studies
Ph.D. University of Minnesota

Thompson, Wade

1965
Professor, English
Ph.D. Columbia University

Tikoo, Surinder

1996
Assistant Professor, Business
Administration
Ph.D. University of Connecticut

Todd, Vernon

1991
Lecturer, English as a Second Language
M.A. New York University

Tofte, Richard

1967
Associate Professor, Chemistry
Ph.D. Rensselaer Polytechnic Institute

Traverso, Giancarlo

1968
Assistant Professor, Foreign Languages
(Italian)
Ph.D. Fordham University

Trensky, Anne

1970
Associate Professor, English
Ph.D. City University of New York

Trippi, Joseph

1973
Professor, Educational Studies
Ph.D. New York University

Tsai, Chih-Yang

1993
Assistant Professor, Business
Administration
Ph.D. New York University

Tung, Shirley

1968
Librarian, Library
M.L.S. Columbia University

Uchmanowicz, Pauline

1996
Assistant Professor, English
Ph.D. University of Rhode Island

Uhlenbrock, Jaimee

1970
Professor, Art History
Ph.D. New York University

Urbanski, Henry

1965
Professor, Foreign Languages (Russian)
Ph.D. New York University

Vander Lippe, John

1994
Assistant Professor, History
Ph.D. University of Texas

Varbero, Richard

1970
Associate Professor, History
Ph.D. Temple University

Vasse, William W.

1982
Professor, English
Ph.D. University of California, Berkeley

Vaziri, Faramarz

1985
Associate Professor, Engineering
Ph.D. University of Houston

Vazquez, Carol A.

1977
Associate Professor, Psychology
Ph.D. Princeton University

Volin, Robert

1989
Assistant Professor,
Communication/Media
Ph.D. City University of New York

Vollmer, Frederick

1984
Associate Professor, Geological Sciences
Ph.D. University of Minnesota

Wade-Lewis, Margaret

1974
Associate Professor, Black Studies
Ph.D. New York University

Wagner, Bartlett

1967
Professor, Elementary Education
Ph.D. University of Connecticut

Waines, Russell

1963
Professor, Geological Sciences
Ph.D. University of California, Berkeley

Walker, Donald

1968
RECIPIENT OF CHANCELLOR'S
AWARD FOR
EXCELLENCE IN TEACHING 1972-73
Professor, Physics
Ph.D. Oregon State University

Waugh, Robert

1968
Associate Professor, English
Ph.D. Harvard University

Whelan, Michael

1993
Associate Professor, Secondary
Education
Ed.D. Teachers College Columbia
University

White, David

1996
Assistant Professor, Chemistry
Ph.D. University of Witwatersrand

Whittaker, Catharine

1986
Associate Professor, Educational
Studies
Ph.D. Ohio State University

Whittaker, William

1978
Associate Professor, Business
Administration
Ph.D. University of Rochester

Wiljanen, Mark

1996
Assistant Professor, Geography
Ph.D. University of Wisconsin

Williams-Myers, Albert

1979
Professor, Black Studies
Ph.D. University of California, Los
Angeles

Wodin, Martin

1967
Professor, Educational Studies
Ph.D. New York University

Wolf, Reva

1996
Assistant Professor, Art History
Ph.D. New York University

Young, Alexander

1963
RECIPIENT OF KUN SANTO
JUIHOSHO, JAPAN'S ORDER OF
THE SACRED TREASURE, GOLD
RAYS WITH NECK RIBBON 1992
Professor, Political Science
Ph.D. Columbia University

Young, Marjorie Ann

1969
Associate Librarian, Library
M.L.S. University of Michigan

Zakariadis, Nikolaos

1993

Assistant Professor, Political Science
Ph.D. University of Georgia

Zackheim, Michael

1971

Librarian, Library
M.L.S. State University of New York,
Geneseo

Zadro, Michael

1964

Associate Professor, Art Studio
B.I.D. Pratt Institute

Zuckerman, June

1992

Associate Professor, Secondary
Education
Ed.D. Columbia University

Zuckerman, Paul

1974

Associate Professor, Mathematics &
Computer Science
Ph.D. New York University

State University of New York's 64 geographically dispersed campuses bring educational opportunity within commuting distance of virtually all New Yorkers and comprise the nation's most comprehensive system of public higher education.

When founded in 1948, the University consolidated 29 state-operated but unaffiliated institutions whose varied histories of service dated as far back as 1816. It has grown to the point where its impact is felt educationally, economically and culturally the length and breadth of the state.

SUNY today is a modern public university -- maturing, integrated, a unified statewide system enrolling more than 381,000 students -- the largest, most diverse multi-campus university in the nation, meeting the needs of an increasingly diverse population.

The University proudly counts more than 1.6 million alumni: writers, teachers, artists, bankers, corporate leaders, lawmakers, college presidents, automotive workers, engineers, farmers, medical researchers. SUNY graduates excel, across the country and around the world. Most, however, continue to work and live in New York State, making vital contributions to the state's commerce and well-being -- to the work place, the work force, and the economy. Equally important, their lives as individuals have been made fuller by their educational experiences, enriching their communities in the bargain.

SUNY is a community of learning and inquiry. Full Opportunity campuses, providing access to higher education, and extremely selective and competitive programs, rivaling the best in America, have varied missions underscoring the wide range of educational diversity and promise to be found in SUNY's classrooms and lecture halls. Almost every field of academic or professional study is offered somewhere within the system -- almost 5,000 programs of study overall.

Research and advanced graduate and professional studies are conducted primarily through the four University Centers at Albany, Binghamton, Buffalo and Stony Brook. Two of the centers, at Buffalo and Stony Brook, respectively, also include a health science center offering programs in medicine, dentistry, pharmacy and related health science fields.

Recognized nationally for their quality undergraduate instruction, SUNY's 13 University Colleges conduct programs of academic study through the master's degree in a wide range of liberal arts and professional disciplines. Money Magazine and U.S. News & World Report annually give top ratings to a number of University Center and University College campuses.

State University offers courses of study in medicine, dentistry, pharmacy, nursing, social work and the allied professions to almost 8,000 students through its freestanding Health Science Centers at Brooklyn and Syracuse and the Health Science components of the University Center at Buffalo and Stony Brook. The medical programs at these four institutions collectively produce more physicians than all but two other U.S. universities. An additional 9,000 students are enrolled throughout the 64-campus system in some 400 health education offerings that make up SUNY's vast array of health

science programs, providing access to a broad diversity of people in order to produce health care professionals of the highest quality to meet the state's needs.

SUNY's Specialized Colleges include the College of Environmental Science and Forestry, offering undergraduate upper division and graduate work leading to degree opportunities through the doctorate; the Maritime College, preparing young men and women to become licensed officers in the American Merchant Marine; the College of Optometry, producing professional optometric practitioners; and the Institute of Technology at Utica/Rome, which provides upper division technology programs for transfer students and two-year college graduates.

The University's five Statutory Colleges are located on the campuses of two private universities. Four are located at Cornell University: the College of Agriculture and Life Sciences, the College of Human Ecology, the College of Veterinary Medicine, and the School of Industrial and Labor Relations. The fifth, the New York State College of Ceramics, is located at Alfred University. These campuses offer a number of specializations leading to bachelor's, master's and doctoral degrees.

SUNY's six Colleges of Agriculture and Technology have responded to societal change by developing new and innovative programs in public and human services as well as high level technological offerings. Colleges of Technology are located at Alfred, Canton, Delhi and Farmingdale. Campuses at Cobleskill and Morrisville continue as Colleges of Agriculture and Technology.

The 30 locally-sponsored Community Colleges under the program of State University of New York are the major entry point to the University for more than half of SUNY's student body. They offer the state's citizens programs that are directly and immediately job-related as well as degree programs that serve as job-entry educational experience or as transfer opportunity to a baccalaureate degree at a senior campus. In the forefront of efforts to meet the accelerating pace of technological developments and the requirements of continuing educational opportunity for all citizens, they play a pivotal role in training and retraining the state's work force.

SUNY today means unprecedented promise for diverse student populations, those academically well-prepared and those less so, to take advantage of the opportunities that education can provide to improve their lives and the larger society. About one-third of SUNY's students are 25 years of age or older, reflecting the University's commitment to continuing education for business, industry and the professions.

One-third of all New York State high school graduates enroll at a SUNY campus and the University's total enrollment is more than 40 percent of all college students in the state. Although more than 95 percent of SUNY's undergraduates come from New York State, the rest come from every other state in the nation and from 130 foreign countries. From the mid 1970s into the 1990s the University recorded a 138.8 percent increase in enrollment of African Americans, Asian Americans, Latino Americans and Native Americans.

The University's program for the educationally and economically disadvantaged, consisting of the Educational Opportunity Program and Educational Opportunity Centers, has become a model for delivering better learning opportunities to young people and adults traditionally bypassed by higher education. Over the past quarter century almost 330,000 New York State residents have been served. SUNY is committed to bring to its students the best and brightest faculty, and the promise of a caring learning environment. The SUNY community of teachers and scholars is recruited from the finest graduate schools and universities, and includes nationally and internationally recognized figures in all the major disciplines. Faculty efforts and accomplishments have been recognized in numerous prestigious awards and honors, including the Nobel Prize, the Pulitzer Prize, Guggenheim grants, MacArthur "genius" awards, Sloan, Danforth and Fulbright fellowships, and ACLS awards. SUNY today means excellence in graduate programs and professional education, advances in health care, and leading-edge research.

SUNY's involvement in the health science is extensive and responsive to the rapid changes in society and the growing needs identified by the public health community. As one of the largest systems of health professions education, the University is uniquely positioned to take a leadership role in national health care reform. Additionally, hundreds of thousands of New York's citizens are served each year by medical and health sciences faculty and students in University hospitals and clinics or affiliated hospitals.

The value of SUNY's teaching, research and public service has long been understood and widely recognized. Much less understood and less well known is the University's major impact on the economy of New York State. Similar to manufacturing companies, high technology enterprises, and the service industries that are at the heart of New York's economy, SUNY is an engine of economic development and job creation. Its research activities result in the technological products and processes vital to the economy of tomorrow. It supplies a constantly renewed pool of talent to the work force, offers economic benefits and stability, and attracts a steady stream of visitors. The vitality of SUNY and the economy of the state are inextricably bound together more closely than generally recognized.

The University's Economic Development Services programs provide research, training and technical assistance to the state's business and industrial community with access to SUNY's diversity through Business and Industry Centers, the New York State Small Business Development Center, Rural Services Institutes, the Trade Adjustment Assistance Center, Technical Assistance Centers, Small Business Institutes, Centers for Advanced Technology, and international development.

Research conducted at the State University of New York generates economic benefits which accrue to the people of New York on many levels -- by bringing in funding and by contributing to the productivity of industries throughout the state. Many new products and services are tangible outcomes of research and development and the transfer of new technology at the University. Research at SUNY also has the potential for solving current economic problems, creating new economic opportunities, improving the environment, and enhancing the quality of life for New York's citizens.

SUNY researchers pioneered nuclear magnetic resonance imaging, introduced time-lapse photography of forestry subjects, isolated the bacteria that causes Lyme disease, and developed the first implantable heart pacemaker. They continue important studies in such wide-ranging areas as immunology, marine biology, sickle-cell anemia, and robotics, and make hundreds of other contributions, inventions and innovations for the benefit of society. The University today ranks among the "top ten" research universities in the country in patenting new discoveries.

Research and other externally funded programs at SUNY have more than doubled in the past ten years to more than \$327 million in expenditures. More than 4,800 contracts and grants received by SUNY faculty directly benefit the economic development of the regions in which they are located, generating jobs for more than 15,000 New York residents.

The University's libraries are the major resource which supports the teaching and research activities of its students and faculty and an important community resource, too. Of the almost 7 million items circulated SUNY-wide last year, over a third of a million were made available to the wider community by lending books to non-SUNY institutions, including school, business, public and special libraries. The University's library collection itself now exceeds 21 million volumes of books and other materials. SUNY's Library Automation Implementation Program (LAIP) is a network of shared library catalogs accessible from all campuses.

State University of New York is governed by a Board of Trustees, appointed by the Governor, which directly determines the policies to be followed by the 34 state-supported campuses. Community colleges have their own local boards of trustees whose relationship to the SUNY Board is defined by law.

The University's motto is: "To Learn -- To Search -- To Serve."

University Centers

State University of New York at Albany
 State University of New York at Binghamton
 State University of New York at Buffalo
 State University of New York at Stony Brook

University Colleges

State University at Brockport
 State University at Buffalo
 State University at Cortland
 State University Empire State College
 State University at Fredonia
 State University at Geneseo
 State University at New Paltz
 State University at Old Westbury
 State University at Oneonta
 State University at Oswego
 State University at Plattsburgh
 State University at Potsdam
 State University at Purchase

Health Science Centers

State University Health Science Center at Brooklyn
 State University Health Science Center at Syracuse

Colleges of Technology

State University College of Technology at Alfred
 State University College of Technology at Canton
 State University College of Agriculture and Technology at
 Cobleskill
 State University College of Technology at Delhi
 State University College of Technology at Farmingdale
 State University College of Agriculture and Technology at
 Morrisville

Specialized Colleges

State University College of Environmental Science and
 Forestry
 State University Maritime College
 State University College of Optometry
 State University Institute of Technology at Utica/Rome

Statutory Colleges

New York State College of Ceramics at Alfred University
 New York State College of Agriculture and Life Sciences at
 Cornell University
 New York State College of Human Ecology at Cornell
 University New York State School of Industrial and Labor
 Relations at Cornell University
 New York State College of Veterinary Medicine at Cornell
 University

Community Colleges

Adirondack Community College
 Broome Community College
 Cayuga County Community College
 Clinton Community College
 Columbia-Greene Community College
 Corning Community College
 Dutchess Community College
 Erie Community College
 Fashion Institute of Technology at New York City
 Finger Lakes Community College
 Fulton-Montgomery Community College
 Genesee Community College
 Herkimer County Community College
 Hudson Valley Community College
 Jamestown Community College
 Jefferson Community College
 Mohawk Valley Community College
 Monroe Community College
 Nassau Community College
 Niagara Community College
 North Country Community College
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Information on specific programs, policies and services may be obtained by calling or writing the appropriate office listed below. Incoming calls should be made directly to the number listed. The main College telephone number is (914) 257-2121. For all numbers listed below, the area code is 914 and the prefix is 257. During the academic year, College offices are open from 8:30 a.m. to 4:30 p.m., Monday through Friday. During the summer, office hours are 8:00 a.m. to 4:00 p.m., Monday through Friday.

Administrative Services	3270	International Education	3125
Admissions	3200	Language Immersion	3500
Anthropology	2990	Learning Resource Center	3590
Art Education	3850	Liberal Arts & Sciences, College of	3520
Art Gallery	3844	Library	3719
Art History	3875	Mathematics & Computer Science	3535
Art Studio	3830	Mid-Hudson School Study Council	2820
Athletics/Recreation	3910	Music	2700
Biology	3770	Non-Traditional Learning	2980
Black Studies	2760	Nursing	2922
Business Administration	2930	Orientation, New Student.	3022
Chemistry	3790	Philosophy	2980
Communication & Media	3450	Physics	3740
Continuing & Professional Education	2900	Police	2222
Disabled Student Services	3020	Political Science	3540
Economics	2944	Psychology	3470
Education, School of	2800	Records and Registration	3100
Education Advisor	2805	Residence Life	4444
Educational Administration	2810	Scheduling	3112
Educational Opportunity Program	3220	Secondary Education	2850
Educational Studies	2830	Security	2222
Electrical Engineering	3720	Sociology	3505
Elementary Education	2860	Student Accounts	3150
Engineering & Business Administration, School of	3720	Student Advising	3015
English	2720	Student Teaching	2823
English as a Second Language	3595	Telecommunications	3001
Financial Aid	3255	Telephone Accounts	3003
Fine & Performing Arts, School of	3860	Theatre Arts	3865
Foreign Languages	3480	Transcripts	3100
International Student Services	3020	Vice President for Academic Affairs	3280
Geography	2995	Vice President for Finance & Administration	3295
Geological Sciences	3760	Vice President for Institutional Advancement	3240
Graduate School	3286	Vice President for Student Affairs	3260
Health Services	3400	Women's Studies	2975
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