

UNDERGRADUATE CATALOG 1983-84 WilliamPaterson College does not discriminate on the basis of race, color, age, sex, religion, creed, national origin or handicap. College policies and practices are consistent with federal and state laws pertaining to equal opportunity in admission and education policies, scholarship, loan, athletic and other school-administered programs.

Specifically, William Paterson College complies with Title IX of the Education Amendments of 1972, Section 504 of the Vocational Rehabilitation Act of 1973, and Title VI of the Civil Rights Act of 1964, and their respective implementing regulations.

The College reserves the right to make changes in its academic program, courses, schedules, fees or calendar. With respect to such changes, students have a continuing right to pursue programs in the form that applied at the time of their matriculation or to choose program changes that occur subsequently.

For additional information, catalogs and applications, write or call:

Office of Admissions William Paterson College Wayne, New Jersey 07470 (201) 595-2125

WILLIAM PATERSON COLLEGE UNDERGRADUATE CATALOG 1983-84

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Academic Calendar

Spring Semester 1984

January 17 January 17 January 18	Tuesday Tuesday Wednesday	First day of classes Third quarter student teaching begins Last day for 100% refund for withdrawal from spring semester
February 13	Monday	Lincoln's birthday celebrated, College open, classes in session
February 20 February 23 February 23	Monday Thursday Thursday	Washington's birthday, College open, classes in session Last day for refund for withdrawal from spring semester Last day for withdrawal from a course for the spring semester
March 13 March 14 March 18-25	Tuesday Wednesday Inclusive	Third quarter student teaching ends Fourth quarter student teaching begins Spring break, classes cancelled, College open
April 11 April 20	Wednesday Friday	Wednesday classes cancelled and replaced by Friday classes Classes cancelled, College closed
May 10-16 May 11 May 16 May 17	Inclusive Friday Wednesday Thursday	Examination period and/or continued class instruction Fourth quarter student teaching ends Spring semester ends Commencement

Pre-Session 1984

May 21 '	Mondaÿ	Pre-session registration
May 22	Tuesday	First day of classes
May 28	Monday	Memorial Day, College closed
May 31	Thursday	Last day for refund for withdrawal from pre-session
June 21	Thursday	Pre-session ends

Summer Session 1984

June 25 June 26	Monday Tuesday	Summer session registration First day of classes
July 4 July 10 July 10	Wednesday Tuesday Tuesday	Independence Day, College closed Last day for refund for withdrawal from summer session Last day for withdrawal from a course for the summer session
August 7	Tuesday	Summer session ends

Fall Semester 1984

September 3 ·	Monday	Labor Day, College closed
September 4	Tuesday . `	First day of classes
September 4	Tuesday	First quarter student teaching begins
September 5	Wednesday	Last day for 100% refund for withdrawal from fall semester
October 8	Monday	Columbus Day, College open, classes in session
October 9	Tuesday	Last day for refund for withdrawal from fall semester
October 9 .	Tuesday	Last day for withdrawal from a course for fall semester
October 26	Friday	First quarter student teaching ends
October 29	Monday	Second quarter student teaching begins
November 6	[*] Tuesday	Election Day, College open, classes in session
November 12	Monday	Veterans' Day, College open, classes in session
November 22	Thursday `	Thanksgiving Day, College closed
November 23	Friday	Classes cancelled, College open
November 24	Saturday	Classes cancelled
December 18-24	Inclusive	Examination period and/or continued class instruction
December 21	Friday	Second quarter student teaching ends
December 24	Monday	Monday classes cancelled and replaced by Friday classes
December 24	Monday	Fall semester ends
December 25	Tuesday	Christmas Day, College closed. Winter Break begins.

William Paterson College

Since its founding in 1855, William Paterson College has grown to a multi-purpose institution of higher education. Supported by the citizens of New Jersey, WPC is one of eight college campuses in the state college system. Operating under the policy direction of the State Board of Higher Education, and governed by a local board of trustees, the College is fully accredited by the Middle States Association of Colleges and Secondary Schools.

The College moved from its original location in Paterson to the Wayne campus in 1951. Degree offerings other than those leading to a teaching career were added in 1966. Today 36 undergraduate and 14 graduate degree programs are offered in the College's seven schools: The Arts and Communication, Education and Community Service, Health Professions and Nursing, Humanities, Management, Science and Social Science. Included in the curriculum are several innovative and challenging undergraduate honors programs in biopsychology, humanities and international management.

Campus Facilities

The major buildings which house and support the programs offered by the College's seven schools include the following:

The Sarah Byrd Askew Library. Open seven days a week when classes are in session. Resources include over 280,000 books, more than 1,700 periodical titles, and an extensive collection of nonprint media. Services include professional reference assistance, online bibliographic searching, library instruction, interlibrary loan and audiovisual previewing facilities.

Caldwell Plaza. An open forum located at the center of the campus. Joins Ben Shahn Center for the Visual Arts, Science Hall, the Student Center and the Towers.

Center for Academic Support. Located between the Coach House and Raubinger Hall. Provides tutoring and workshops for individuals seeking assistance in course work and basic skills.

The Coach House. Computer facilities are located here. The College is a member of the Educational Computing Network which is a statewide computer network supporting multilanguage, high-speed service for administrative and academic users

Heritage Hall. Air-conditioned and complete with furnishings and appliances, Heritage Hall and Pioneer Hall provide apartment-style living for. 530 students.

Hobart Hall. Located on Pompton Road, across from the main campus and accessible by a footbridge. Houses the communication department; WPSC, the campus radio station; WPC-TV, the television center; a film-making laboratory; the speech pathology department; and a child care center.

Hobart Manor. One of the two original structures on campus, the other being the Coach House, Hobart Manor is now a national historic site. It was at one time the home of the family of Garret Hobart, the 24th vice president of the United States.

Hunziker Hall. The theater department, including its offices, scenic design and costume shops, Hunziker Theater and the theater box office are located here, as are the office of field laboratory experiences, the reading and language arts department and a number of classrooms.

Hunziker Wing. Contains classrooms, the departments of nursing and health science, the office of the dean of the School of Health Professions and Nursing, a learning resource center, and the college print shop.

Matelson Hall. Houses the office of the dean of student services, the dean of the School of Humanities, and offices for the school's component departments: English, languages and cultures, history, philosophy and African and Afro-American studies. Also the center for continuing education, the office of career counseling and placement, the athletic office, the bilingual education program, the women's center and the security office.

Morrison Hall. Includes the office of the president of the College and other central administration offices; academic affairs, administration and finance, affirmative action, the Alumni Association office, the business office, college relations, personnel and purchasing.

Pioneer Hall. A student residential hall. Described above under Heritage Hall.

Raubinger Hall. Contains offices for the dean of the School of Education and Community Service and the following departments: Urban education, special education, elementary education and secondary education. The offices of the vice president for student services, the registrar, the peer advisement and information centers are located here as are the following: Advisement/counseling/evaluation services, admissions, financial aid and veterans' affairs.

Recreation Center. Designed to serve as the focal point for physical recreational activities, the Recreation Center contains a large multi-purpose area that can accommodate 4,000 spectators at concerts or exhibitions or can be divided into three courts for basketball, tennis, volleyball or badminton. Additional facilities include four racquetball courts, a large weight and exercise room, a two-lane jogging track, saunas and Jacuzzis.

Science Hall. Houses the School of Science and the School of Social Science. Offices for each school's dean and the following programs are located here: Biology, chemistry, mathematics, physics, environmental studies, psychology, political science, sociology/anthropology and geography. Laboratories, research facilities, and two large lecture halls, containing modern audio-visual instructional equipment, complete the complex.

Ben Shahn Center for the Visual Arts. Features a central, two-story glass-walled and domed courtyard, art galleries, studios, classrooms, the office of the dean of the School of the Arts and Communication and art department offices.

Shea Center for Performing Arts. Features a 900-seat theater, band, orchestra and choral practice rooms, classrooms, and the offices of the music department.

The Student Center. A focal point for campus activities. Includes a dining room, a snack bar, Billy Pat's Pub and the Sweet Shoppe. Also game rooms, performing arts and visual arts lounges, the college bookstore, a print shop, a full-service bank and a ballroom. The student activities office is located here as are the offices of various student organizations and the college newspaper, the Beacon.

The Towers. A four-winged dormitory facility, completed in 1982, which accommodates 1,033 students. Complete with modern furnishings, each room houses two students. Two rooms, connected by a bathroom, comprise a suite.

Wayne Hall. A variety of food service facilities and meeting rooms is located here.

White Hall. Contains offices for the dean of the School of Management and the school's component units: accounting, business administration, computer science, criminal justice administration, economics, law and public administration. The student health center is also located here.

Wightman Field. A light-equipped athletic complex with fields for baseball, field hockey, football, soccer and softball. Eight tennis courts, a permatrack, and locker facilities are among the additional athletic facilities.

Wightman Memorial Gymnasium. Two gyms, an olympic-sized swimming pool, training rooms, a weight room and classrooms are included in the physical education building. The department of movement sciences and leisure studies is located here.

Admission

William Paterson College invites applications from all qualified students. As a matter of policy, the College does not discriminate on the basis of sex, race, color, national origin, religion, age, or handicap in its admissions policies, educational programs, scholarship and loan programs, athletics, activities or employment policies.

General Admissions Requirements

To be admitted to William Paterson College as an undergraduate student an applicant should: 1) be a graduate of an approved high school, or 2) hold a high school equivalency certificate, and 3) have taken the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board or the test battery of the American College Testing Program (ACT). Achievement tests are not required. Students are admitted in September and January of each year.

Admission requirements and procedures vary slightly for four groups of students: 1) those entering the freshman class as full-time students; 2) those entering the freshman class as part-time students; 3) those entering as transfer students with advanced undergraduate credits; 4) those entering as continuing education students wishing to matriculate.

Application Procedure Students seeking undergraduate admission, whether full-time or part-time, must submit a completed application form, which may be obtained from the Director of Admissions, William Paterson College, Wayne, New Jersey 07470. The completed application must be accompanied by a \$10.00 fee (check or money order) made payable to William Paterson College. This fee is non-refundable and will not be applied toward any other fees or charges.

Because application deadlines vary from year to year, a current admission calendar is sent with each application. Generally, freshmen and transfer students should file applications before May 1 for fall admission and November 1 for spring admission.

Required Academic Preparation The applicant must request that a secondary school official send William Paterson College a transcript indicating that the applicant has been graduated, or will be graduated during the current academic year, from an approved secondary school.

To be eligible for consideration for full-time admission, applicants are required to have taken a college preparatory course of studies in high school with at least 14 of the required 16 units in college preparatory subjects.

Specific distribution requirements include:
English 4 units
college preparatory math 2 units
social studies 2 units
laboratory science 1 unit
additional college preparatory
subjects 5 units
electives 2 units

In exceptional cases, the Committee on Admissions may waive certain unit requirements when the quality of the applicant's overall record shows promise of achievement.

Prospective students who have a New Jersey equivalent high school diploma may present diploma in lieu of these requirements.

Students planning to major in mathematics or science are expected to have taken more than the minimum required units in these subjects. Applicants for the nursing curriculum must have completed a full year of both biology and chemistry. Requirements further include a recommendation for college study by the high school principal, guidance counselor, or other authorized person.

Entrance Examination All applicants for admission to full-time study must take the Scholastic Aptitude Test (CEEB: SAT) by January of the senior year or earlier.

In applying for the test, applicants should indicate that the results are to be sent to William Paterson College, Code 2518. Application forms may be secured from the high school guidance office.

A prospective student who has been out of high school for more than five years has the opportunity to seek admission as a matriculated student without taking the Scholastic Aptitude Test. The Committee on Admissions may waive this requirement if other criteria are available to evaluate the candidate for admission.

Notice of Decision Four factors are considered in the evaluation of applications: high school record, Scholastic Aptitude Test results, participation in extracurricular activities and a recommendation from a guidance counselor or teacher. All announcements on admission decisions are made on a rolling basis before April 15. Decisions are not normally made until all parts of the application are on file in the Admissions Office.

An offer of admission is conditional upon satisfactory completion of high school and submission of the health form which is included in the admissions packet. To accept an offer of admission, the applicant must pay the required acceptance deposit.

Acceptance Deposit Upon notification of acceptance, the applicant will inform the College of the intention to enroll and remit a deposit of fifty dollars (\$50.00) at that time. This payment is applied toward the general service charge (\$25.00 for each semester of the first year) and is non-refundable and non-transferable.

Scholarships A limited number of competitive academic scholarships is made available to incoming freshmen through the generosity of alumni, friends and corporations. To be eligible for a scholarship, a candidate must fulfill the entrance requirements of the College. Scholarships are awarded by the Scholarship Committee based on scholastic standing and character. Financial need is not a consideration. Full-time freshman applicants who rank in

the top 15 percent of their high school class, and who have a combined SAT score of 1,000, should request a merit scholarship application.

Iransfer Admission With Advanced Standing Students who have earned credits at other colleges may apply for admission with advanced standing, for full- or partime study, by following the procedures above with the following changes:

- File an application for admission and all other required materials no later than May 1 for fall admission or November 1 for spring admission.
- Have official transcripts of all courses taken at schools previously attended forwarded to the Director of Admissions. Transcripts should be forwarded as soon as possible after filing the application.

Credits earned at institutions fully accredited by regional accrediting associations are generally acceptable, provided such credits are appropriate to the student's program at William Paterson College. To be accepted, courses must have been passed with a minimum satisfactory grade ("C" or the equivalent). The College reserves the right to accept or reject credits earned in institutions not accredited by regional accrediting associations. Courses completed in non-accredited institutions may be validated for credit through challenge examinations. Only courses completed at William Paterson College are included in calculating a student's cumulative grade point average.

Credit is granted for courses taken at another college while the student is enrolled at William Paterson College only when written permission to register for such courses is granted by the appropriate dean. Upon acceptance of the credits, the dean shall forward to the registrar the approval to adjust the student's permanent record.

Limitations on Transfer Credits All credits eligible for transfer for advanced standing are subject to the following limitations:

- 1. No more than 70 credits may be transferred from a two-year college.
- No more than 90 credits may be transferred from a four-year college.
- The last 30 credits required for graduation must be earned at WPC; 24 of these must be earned on the main campus.
- No more than 15 transfer credits required for a major will be accepted.
- Credits earned 10 years prior to the date of admission are accepted only at the discretion of the College, regardless of achievement.

Out of State Students The same admissions requirements apply to out of state applicants as apply to New Jersey residents. Out of state students are encouraged to apply for admission and invited to visit the campus. There are several motels near the College for those who wish to spend some time in the area and/or visit New York City.

Special Admission

Advanced Placement An entering freshman who presents an outstanding score on an appropriate College Board achievement test, or who demonstrates advance standing qualifications by other acceptable evidence may, with proper approval, enroll in an advanced course not generally open to freshmen.

William Paterson College participates in the Advanced Placement Program of the College Entrance Examination Board (CEEB). In this program, high schools offer accelerated or honors courses on a college level to students in several fields: biology, chemistry, English, foreign languages, history, mathematics and physics. Examinations covering these courses are administered annually by the CEEB and are graded by the Board on a scale of 5-1. The College accepts scores of 5, 4 or 3, and awards credit and, if desired, placement in intermediate courses according to the achievement demonstrated.

Second Baccalaureate Degree Applicants for a second baccalaureate degree must have an earned baccalaureate degree from an accredited institution, and a grade point average of at least 2.00. Second degree candidates are accepted on a space available basis, as determined by the appropriate department.

Students accepted into this program register as undergraduates and are subject to all regulations affecting undergraduates.

The candidate must fulfill all requirements of the degree major and complete a minimum of 30 semester hours in residence.

Early Admission The William Paterson College Early Admissions Program is open to highly motivated high school students of exceptional academic ability.

Student applicants who have completed the junior year of high school may apply for early admission provided they meet the following criteria: combined SAT scores of 1000 or higher, or the equivalent PSAT scores, and/or rank in the top ten percent of their high school class, and/or exhibit exceptional talent in a special area; receive the endorsement of a teacher or counselor, and submit a written essay describing their reasons for seeking early admission. A personal interview is required of early admission applicants.

The Saturday Program for High School Seniors William Paterson College offers its facilities to enrich the academic development of gifted and talented high school students in the North Jersey area. Outstanding high school juniors and seniors may apply to take regular college courses offered on Saturdays during the school year. Students attend regular college courses and earn credits that are applied to their college records.

A student can make application for this special program by calling or visiting the Admissions Office. Acceptance is based on SAT or PSAT scores, rank in class, a letter of recommendation from a teacher or guidance counselor, and a personal interview with the Director of Admissions. Successful applicants may also enroll for courses during the College's summer sessions.

International Students

William Paterson College; while having a primary obligation to serve New Jersey residents, welcomes applications from citizens of other countries. Residents of countries other than the United States or international students attending other schools in the United States on a F-1 visa are required to apply as international students. A special application is required for such applicants and may be obtained by writing or calling:

International Admissions Officer Admissions Office William Paterson College Wayne, N.J. 07470 USA (201) 595-2125

Proficiency in the English language is required of all applicants. Proficiency is measured by either the TOEFL (Test of English as a Foreign Language) or the SAT (Scholastic Aptitude Test) for people who speak English as their native language. All students, except those who are transferring from an English-speaking college or university with at least twenty-four (24) transferable semester credits, are required to take the appropriate test.

In addition, freshmen, i.e. students who have never gone to a college or university, must have a U.S. high school diploma, or the equivalent, from a foreign country, and all applicants must have demonstrated average or above average achievement in their past educational pursuits. An evaluation of all foreign credentials is required. Applications for the evaluation service utilized by William Paterson College are sent with the application for admission to the College.

Financial assistance is not available to non-U.S. residents. In view of this, international student applicants are required to provide evidence of their source of financial support for at least the first 12-month period of stay in the United States.

After acceptance to the College and payment of the acceptance deposit, the student is sent an I-20 form, which then must be presented to Immigration officials in order to obtain a student visa.

Campus Visits

Prospective students and their parents are welcome on campus. Tours, conducted by WPC student guides, are scheduled on specific Friday afternoons and Saturday mornings. A copy of the admissions tour schedule is available from the Admissions Office.

Financial Information

Tuition, fees, and refund policies are subject to change at any time in accordance with policies established by the New Jersey State Board of Higher Education.

An undergraduate student taking 12 or more credits is considered a full-time student.

Tuition and fee rates are published each semester and for the summer sessions in the master schedule of classes. Please consult the appropriate issue for current rates.

Undergraduate Tuition and Fees

New Jersey Student	
(per credit)	\$32.00
Out-of-State Student	
(per credit)	52.00
Student Service Charge	
(per credit)	1.50
Student Activity Fee	
(full-time, per credit)	1.75
(part-time, per credit)	.25
Student Center Fee	
(per credit)	5.00
Student Athletic Fee	
(full-time, per credit)	1.25
(part-time, per credit)	.65
Late Fee	
(non-refundable)	15.00
Bad Check Fee	
(non-refundable)	15.00
Added Course Fee	45.00
(non-refundable, per course)	15.00
Partial Payment Fee	
(non-refundable)	15.00

Refund Policy Students withdrawing from a course must give written notice to the Registrar's Office. The date the Registrar's Office receives the written notice of withdrawal is used to determine any refund due. This does not apply to non-refundable fees.

The refund schedule is as follows:

witharawai betore the ena	
of drop/add	100%
Withdrawal during the first third	
of the semester	50%
Withdrawal after the first third	
of the semester	NONE

Dates for each of the above categories are published in the master schedule of classes each semester/session.

Tuition and fees are refunded in full when classes are cancelled by the College.

Late Fee Students paying tuition or fees late are assessed a late payment fee of \$15.00.

Added Course Fee Students requesting program changes are required to pay an added course fee of \$15.00 for each course added after the regularly scheduled program adjustment. Students who were enrolled in the previous semester and who register late are charged an added course fee of \$15.00 for each course for which they register.

Partial Payment Plan Students previously enrolled may defer tuition during the first third of the semester. Students not previously enrolled may defer 50% of the tuition. Students granted a deferral are assessed a partial payment fee of \$15.00. Fees are not deferrable and an initial payment must be made for all fees, including the \$15.00 partial payment fee. Students who do not pay the deferred tuition by the end of the first third of the semester are assessed an additional \$15.00.

Student Parking The parking fee for automobiles is \$10.00 for the school year. The motorcycle fee is \$1.00. The fee is nonrefundable. Student cars and motorcycles without current decals permanently affixed are not permitted to park on campus.

Student Medical Insurance The current cost of voluntary student accident and sickness insurance is \$42.00 per year from September 1 to August 31. Coverage can also be purchased for a spouse or dependents.

Music Instrument Fee A music fee of \$5.00 per semester is charged for music instrument courses. This fee is non-refundable.

Housing The charge for residing on campus is \$900 per semester (\$1800 a year). Students residing in the Towers are required to purchase a food plan for \$300 a semester. Students living in the apartments, Pioneer and Heritage Halls, are eligible to participate in the food plan but not required to do so.

Financial Aid

Application Procedure for Financial Assistance Information regarding filing dates and procedures for applying for financial aid are given on the admissions application form. The Financial Aid Office, located in Raubinger Hall, may also be contacted for further information.

All applicants must obtain a New Jersey Financial Aid Form (NJFAF) from their respective high schools, furnish the required information and mail it to the College Scholarship Service, P.O. Box 2859, Princeton, N.J. 08541.

The student should request that the NJFAF be sent to William Paterson College.

Dependent students must submit to the Financial Aid Office a copy of their parents' 1040 income tax form from the previous year.

Independent students must submit a copy of their own 1040 form and should read the instructions on the NJFAF to see what determines whether an applicant is dependent or independent.

Budgets for the School Year (Nine Months)

Financial need can only be determined by individual case studies, but the expenses outlined below reflect average costs. Applicants are required to reapply for financial assistance annually. However, recipients normally receive assistance for their entire undergraduate career as long as they continue to demonstrate financial need and carry the required academic grade point average. Budgets for independent students are adjusted according to federal guidelines.

Commuter Expenses:

Tuition and Fees	\$1185*
Books and Supplies	300
Other (Recreation, Personal,	
Transportation)	2870
Total	4355
Resident Expenses:	
Tuition and Fees	1185*
Books and Supplies	300
Room and Board	2800
Other (Recreation, Personal,	
Transportation)	1410
Total '	5695
*Code: and do not make the Albert Nicolation	D -

*Subject to change by the New Jersey Department of Higher Education.

Eligibility

To receive aid, a student must:

- a. Be a citizen of the United States, or a permanent resident.
- b. Be accepted as a full-time/half-time matriculated student of WPC.
- c. Be in need of financial assistance.
- d. Plan to continue academic study for a bachelor's degree at the institution.
- e. Maintain the required grade point average.
- f. Not be in default on a National Direct Student Loan, Guaranteed Student Loan or a PLUS Ioan.
- g. Not owe a refund on a Pell Grant or a Supplemental Educational Opportunity Grant.

All financial aid awards are based on need and are awarded without regard to race, religion, creed, age, sex or handicapping condition.

Federal Sources

Pell Grants Grants are based on financial need determined by a formula, approved by the Department of Education, which is applied consistently to all applicants. The formula uses the information provided on the NJFAF to produce a student aid index number. This student aid index number (not a dollar figure) is used along with the total cost of attending WPC part-time or full-time to determine the actual amount of the grant. Grants range from \$225 to \$1800. Eligibility for a Pell grant does not directly affect eligibility for any other campus-based aid. However, WPC and the State of New Jersey require that a student apply for a Pell grant before being considered for other aid. The state of New Jersey further requires all applicants to check Item 43 "Yes" on the NJFAF.

College Work-Study (CWS) This program provides jobs for students in need of financial assistance and permits them to work up to 20 hours per week.

An institution that participates in College Work-Study may arrange jobs on campus or off-campus with a public or private non-profit agency such as a hospital. If eligible, students may be employed for as many as 40 hours a week.

In arranging a job and determining how many hours a week a student may work under this program, the financial aid officer takes into account: 1) need for financial assistance; 2) class schedule; and 3) curriculum and academic progress.

National Direct Student Loans (NDSL) This program is for students who are enrolled at least half time and who need a loan to meet educational expenses.

A student may borrow up to a total of: 1) \$3,000 if less than two years of a program leading to a bachelor's degree has been completed; 2) \$6,000 if an undergraduate who has already completed two years of study toward a bachelor's degree (total includes any amount borrowed under NDSL for the first two years of study); 3) \$12,000 for graduate study (total includes any amount borrowed under NDSL for undergraduate study).

Repayment begins six months after graduation or departure from school for other reasons. A student may be allowed up to ten years to pay back the loan. During the repayment period five percent interest on the unpaid balance of the loan principal is charged.

There are four types of deferments: 1) Volunteer service in a private non-profit, VISTA or Peace Corps-type organization; 2) Service as an officer in the U.S. Public Health Service Commissioned Corps; 3) Temporary total disability; 4) Service in an internship preceding a professional practice.

The financial aid officer also has information about loan cancellation provisions for borrowers who enter fields of teaching or who teach in designated schools.

Supplemental Educational Opportunity Grants (SEOG) SEOG is for students with exceptional financial need who would be unable to continue their education without the grant.

A student is eligible to apply if enrolled at least half-time as an undergraduate in an educational institution participating in the program. SEOG's cannot be less than \$200, or more than \$2,000 a year. Normally, an SEOG may be received for up to four years. However, it may be received for five years when the course of study requires the extra time. The total that may be awarded is \$4,000 for a four-year course of study or \$5,000 for a five-year course. Graduate students are not eligible.

Nursing Student Loans (NSL) This financial assistance may be awarded in the form of a loan and cannot be for more than \$2,500 a year. Not more than \$10,000 may be awarded in the form of loans over a four-year period.

Veterans Affairs The educational assistance program administered by the Veterans' Administration provides financial aid for the education of all eligible veterans or dependents of deceased and disabled veterans attending William Paterson College. The College provides direction and serves as a certifying agency with regard to veterans' educational benefits and/or dependents' educational assistance. For other services available, see page 15.

State Sources

Tuition Aid Grant (TAG) This program is for full-time undergraduates. To be eligible a student must be pursuing a full-time academic program of studies with a minimum of 12 credits per semester. TAG awards can be from \$200 to \$960. To be eligible for a Tuition Ald Grant, it is essential that a student file a NJFAF, which also calculates the Pell grant. A student must be a United States citizen, or a permanent resident, and be an established state resident for 12 months prior to receiving a Tuition Aid Grant. The state of New Jersey requires all applicants to fill out Item 45.

Garden State Scholarship Program (GSS) These scholarships are awarded to students demonstrating high academic achievement and financial need. The awards are for full-time undergraduate study in New Jersey institutions of higher education and are renewable during the normal undergraduate period.

Grants range from \$200 to \$500. The exact amount is determined by the financial aid office and depends on student's financial need, taking into account family contribution and other aid received, the total of which may not exceed the student's college budget.

Garden State Scholarship recipients must be continuous residents of New Jersey for 12 months immediately preceding receipt of the award; and each scholarship shall remain in effect only during the period in which the recipient achieves satisfactory academic progress as defined by the institution, continues to meet the established eligibility criteria and guidelines, and is regularly enrolled as a full-time student in an approved institution. Garden State Scholarships are renewable annually for up to four years.

Educational Opportunity Fund (EOF) All students applying for admission to the Educational Opportunity Fund program must be determined to be eligible and be accepted for admission to the program. Grants range from \$350 to \$600 per academic year, renewable annually. Further information about the program can be found on p. 13.

Student Assistant Work Program (SA) Under this program, students with no apparent "need" may obtain employment on campus. Hours and pay rates are similar to CWS.

Guaranteed Student Loans (GSL) This program enables a student to borrow directly from a bank, credit union, savings and loan association, or other participating lender willing to make the loan. The loan is guaranteed by a state or private non-profit agency or insured by the federal government.

The maximum an undergraduate dependent student may borrow is \$2,500 a year with an aggregate of \$12,500. The maximum an undergraduate independent student may borrow is \$2,500 a year with an aggregate of \$12,500. A graduate or professional student may borrow up to \$5,000 per year. Total loans for graduate or professional study cannot exceed \$25,000, including loans made at the undergraduate level. All students are eligible for the lower federal interest rate of 9 percent, applicable to loans made after Jan. 1, 1981.

A new program of loans to parents for dependent undergraduate students is established by section 428B of the new law. The maximum amount a parent may borrow for any one student in any academic year is \$3,000. The aggregate loan limit for each dependent student is \$15,000. Repayment is required to begin within 60 days after disbursement, and there is no inschool federal interest subsidy on these loans. The inferest rate is 14 percent.

Public Tuition Benefit Program Dependents of policemen, firemen, and volunteer first aid or rescue squad members killed in the performance of duty are eligible for free tuition at public colleges and universities in the state of New Jersey.

Enacted as law by the state legislature, the program, which began September 1, 1980, specifies that surviving spouses must attend college within eight (8) years from the date of the member's death, and surviving children must enter college within eight (8) years of the date of their high school graduation.

Other Sources

Academic Merif Scholarships William Paterson College makes available a limited number of academic merit scholarships each year. To be eligible, a student must be an undergraduate, have been in attendance for at least one semester, and have a cumulative grade point average of 3:45 or better with a minimum 12-credit load. Students whose grade point average make them eligible will be notified in writing and invited to apply for an award.

Financial Rights and Responsibilities

Rights Students have the following rights:

- 1. To know what financial aid programs are available at the school.
- To know the deadlines for submitting applications for each of the financial aid programs.
- To know how financial aid is distributed, how distribution decisions are made, and the bases for these decisions.
- 4. To know how the financial need was determined, including how costs for tuition and fees, room and board, travel, books and supplies, personal and miscellaneous expenses, etc., are considered in student budgets.
- To know what resources (such as parental contribution, other financial aid, student's assets, etc.) were considered in the calculation of their needs.
- To know how much of the financial need as determined by the institution has been met.
- 7. To request an explanation of the various programs in the student aid package.
- 8. To know the school's refund policy.
- 9. To know what portion of the financial aid received must be repaid and what portion is grant aid. If the aid is a loan, students have the right to know what the interest rate is, the total amount that must be repaid, the navyack procedures the length
- the payback procedures, the length of time available to repay the loan, and when repayment begins.
- 10. To know how the school determines whether students are making satisfactory progress and what happens if they are not.

Responsibilities Students have the following responsibilities:

- To complete all application forms accurately and submit them on time to the right place.
- To provide correct information. In most instances, misreporting information on financial aid application forms is a violation of law and may be considered a criminal offense which could result in indictment under the U.S. Criminal Code.
- To return all additional documentation, verification, corrections, and/or new information requested by either the Financial Aid Office or the agency to which the application was submitted.
- To read and understand all forms they are asked to sign and to keep copies of them.
- 5. To accept responsibility for all agreements they sign.
- 6. To perform the work agreed upon when accepting a College Work-Study award.
- To be aware of and comply with deadlines for application or reapplication for aid.

- 8. To be aware of the school's refund procedures.
- To consider this information carefully before deciding to attend a school. All schools must provide information to prospective students about the school's programs and performance.

Questions Asked on Student Financial Aid

- 1. What is financial aid? Financial aid is any grant, loan, scholarship, or offer of campus employment designed to make up the difference between what a student and his parents can afford and what it will actually cost to go to the college. Financial aid usually does not come from one source, but rather from a combination of programs. These awards are called "packages," and the total amount of a financial aid package is determined by the amount of inancial need a student has and the availability of funds and programs available at the College.
- 2. How does one apply for financial aid? A student who wishes to apply for financial aid at William Paterson College is required to fill out and submit a New Jersey Financial Aid Form (NJFAF) to the College Scholarship Service. NJFÁF's are available from the Financial Aid Office at William Paterson College or from high school guidance offices. This form should be filed by April if the student wishes to be considered for aid for the subsequent academic year, although forms submitted after this date will be accepted. A copy of the student's and/or parent's income tax form must be sent to the Financial Aid Office. It is important to file as early as possible, especially if the student expects to use financial aid awards to meet all or part of term bills. Awards are normally made for the full academic year.
- 3. What is financial need? The amount of money a student and his family can afford to pay for educational costs is called a "student's family contribution." A college budget consists of the amount of money required to attend college, including tuition, fees, books, transportation housing, meals, and personal expenses. Simply put, if the student's college budget is greater than a student's family contribution, the difference is that student's financial need.

- 4. How is a student's family contribution determined? A uniform method of needs analysis, developed by the College Scholarship Service and accepted and approved by the Department of Education, determines a student's family contribution. A standardized formula is applied to the information submitted to the College Scholarship Service by the student's family on a New Jersey Financial Aid Form (NJFAF). This formula takes into account a variety of factors, including family and student income, assets, family size, number of family members in college, and certain debts. This needs analysis, including an expected family contribution, is forwarded to those colleges chosen by the student, as well as to any designated state or federal grant programs requiring this data.
- 5. Where do financial aid funds come from and how are they disbursed? There are four primary sources of financial aid: federal programs, state programs, institutional funds, and private sources. The Financial Aid Office administers and coordinates all federal, state and institutional programs and notifies students as to the amount and type of aid in their award package.
- 6. Do financial aid awards have to be repaid? Grants or scholarships do not have to be repaid and, consequently, are regarded as "gift" aid. Loans must be repaid to the lender, but repayment is generally deferred until after a student completes his education. Campus employment income, paid to the student for work performed, does not have to be repaid.
- 7. Are there income levels above which students are not eligible for financial aid? There is no absolute cut-off for all financial aid programs. Programs differ in their requirements, and a wide variety of factors is considered. In general, grants are awarded to students demonstrating the highest need. Student employment and government loans are more likely to be offered to students showing less need. Guaranteed Student Loans (GSL) are available to students who establish unmet need through a needs analysis test. All students who require even some assistance in meeting college costs are urged to apply for financial aid.
- 8. Must applications for aid be renewed each year? Yes, they must be renewed for each academic year. The information submitted on the New Jersey Financial Application Form must be resubmitted for each year aid is requested, to be considered for all federal and state programs, as well as the work-study program.

Academic Regulations

Every student is expected to know and comply with policies and regulations stated in this catalog. Students are also expected to be aware of and responsible for their scholastic standing at all times, as well as for the appropriate number of credits accumulated toward the number required for graduation.

The College reserves the right to introduce changes in the rules regulating admission, programs and instruction and graduation. Changes go into effect when determined by the proper authorities and apply to prospective students as well as to those already enrolled.

The administration of academic regulations is the function of the dean of each school. A student may request in writing, through the department chairperson to the appropriate dean, an exemption from or waiver of a particular academic regulation.

Attendance

Students are expected to attend regularly and punctually all classes, laboratory periods, and other academic exercises. Students are responsible for all work required in courses. The instructor shall determine the effect of absences upon grades and may permit or deny the privilege of making up work, including examinations, within the time limits of the semester.

In the event of a prolonged absence, a student is advised to consult with the Office of the Dean of Students.

Grades

- A—A grade of A indicates an achievement of distinction. It is never lightly given, nor lightly deserved. It marks work of unusual and superior quality expressed in an exemplary manner and includes all or most of the factors which determine the grade of B. Value: four grade points.
- B—A grade of B indicates more than acceptable standards of achievement. It involves a degree of excellence in some aspect of the following areas: completeness and accuracy of knowledge, sustained and effective use of this knowledge, ability to work independently in the specific area, and originality in quality and execution. Value: three grade points.
- C—A grade of C indicates an acceptable standard of work for graduation. It recognizes such factors as familiarity with course content and methods of study, actual use of such content and methods, participation with a discriminating and active awareness of the course work, and the ability to express one's knowledge and opinions in intelligible English. Value: two grade points.

- D—A grade of D indicates an inability to meet one or more of the standards for satisfactory work. Although credit may be granted for this grade toward graduation, it reflects a quality of performance that is less than acceptable. Value: one grade point.
- F—A grade of F indicates that work of sufficient quality and/or quantity has not been presented by the student. Value: no grade points.
- P—Passing. Acceptable work presented in certain courses. The grade is not computed in determining the grade point average.
- INC—Incomplete. Indicates that the student has not completed, for valid reasons, such as severe illness or other circumstances beyond control, all of the work required in a course.
- M—Missing. Indicates that a grade was not submitted.
- N—A grade assigned for non-acceptable performance in certain courses. This grade is not assigned when a student's work is clearly of "F" auality.
- WD—Withdrawn. Official withdrawal with no effect on grade point average.

Grade Regulations

A report of the student's grades is entered on the official record and is not altered except upon the authorization of the appropriate dean, after consultation with the instructor or the department chairperson. A student who fails to pass a given course may repeat it. However, the original F grade is not expunged. In some such cases, the privilege of re-examination is permitted, but then the semester grade cannot be higher than a D. A course in which a D is received may not be repeated.

Grades of INC must be removed from the record within the 30-day period immediately following the end of the semester. All grades of INC not changed by the appropriate time to a letter grade upon the recommendation of the proper faculty member are automatically changed to a grade of F by the registrar. Seniors, during their final semester, are not awarded incomplete grades. This permits the evaluation of eligibility for graduation prior to the close of the final undergraduate semester.

Class Standing

Class standing is determined by computing the total credit hours earned.

Sophomore—one who has earned at least 24 credits

Junior—one who has earned at least 58 credits

Senior—one who has earned at least 90 credits

Pass/Fail Option

A student is allowed to register for a maximum of 12 of the necessary 120 credits required for graduation on a pass/fail basis. The student who exercises this option must

indicate such intention at the time of registration and is not permitted to change his intention after the registration period is complete. Nor may the student who has registered for a course be permitted to change his mind and exercise the pass/fail option after the registration period. A student may not register for more than three credits a term on the pass/fail basis and may not exercise this option in courses required for his major program. Not included in the maximum count of pass/fail credits are those courses which are normally graded pass/fail for all students.

A grade of P shall count in the number of credits earned but not in the cumulative grade point average. A grade of F counts in the grade point average.

Students who wish to exercise the pass/fail option are reminded of certain limitations in the concept and of potential difficulties which they may encounter. Not only are grades of P not counted in the student's grade point average, but also the student may find that grades of P are not transferable to other colleges and may not be recognized by some graduate schools.

Credit

A credit is a unit or measure of curricular work. Generally, a credit is awarded for one hour of class attendance a week for one semester. In some studies, such as studio or laboratory courses, several hours may be required to earn one credit.

Course Credit Load

Full-Time Students The normal registration for any semester is 15 credits, although up to 17 credits in some major programs may be carried without special approval. Registration for 18 or more credits per semester is permitted only under unusual circumstances and requires high academic standing and written approval of the student's advisor, department chairperson, and the appropriate dean.

A student must be registered throughout the semester for a minimum of 12 credits to be considered full time. A student who registers for a minimum full-time load and then withdraws from courses, bringing his credit load below the minimum full-time requirements, relinquishes full-time status.

Part-Time Students Students carrying less than 12 credits are part-time students.

Non-Degree Students The non-degree student is limited to part-time enrollment each semester and may acquire a maximum of twenty-four (24) credits as a non-degree student. To proceed beyond this maximum, the non-degree student must apply for formal acceptance to a program through the Admissions Office.

Pre-Session and Summer Session Students who register for the four-week pre-session may not carry more than 3-4 credits during the session. Students who register for the regular six-week summer session may register for a maximum of 9-10 credits. This policy of maximum load applies equally to all students.

Academic Standing

The policy on academic standing is that approved by the Board of Trustees on August 30, 1976. The basic principle is that any student whose grade point average falls below 2.0 is no longer in good standing. The guidelines below display what constitutes "good standing," "probationary," and "dismissed" status.

Procedures. Determination of student academic standing is made once a year, after completion of the spring semester. Students bear the responsibility for remaining in good standing. The College is under no obligation to warn students about academic deficiencies or to alert them about probationary status when their cumulative grade point average drops below 2.0.

Dismissal After annual determination of student standing by the registrar, dismissed students may no longer take courses. Dismissed students who have registered for new courses prior to receiving a dismissal notice will have their tuition and fees refunded and will be withdrawn from the courses. Appeals of dismissal decisions may be made in writing to the appropriate dean through the registrar. These must be filed within seven days after receiving a letter of dismissal. It is the responsibility of the student to provide additional information or documentation beyond the grade point average itself which might warrant reconsideration and, perhaps, reinstatement. Appeal decisions should be rendered by the appropriate dean no later than August 15.

Academic Standing Guidelines

 Credits Attempted
 Good Standing

 23 credits or less*
 2.00 or better

 24 to 30 credits
 2.00 or better

 31 to 60 credits
 2.00 or better

 61 to 90 credits
 2.00 or better

 91 to graduation
 2.00 or better

Automatic Probation Not Applicable 1.99 to 1.20 1.99 to 1.70 1.99 to 1.90 under 2.00 with one semester or term to achieve a 2.00 Dismissal
Not Applicable
1.19 or less
1.69 or less
1.89 or less
1.99 or less after the
grace semester or

term to achieve a

*Students with 23 credits or less are usually part-time students who need more than two semesters to complete one academic year.

Grade Point Average

A student's academic standing is indicated by the grade point average. The average is determined by dividing the total number of grade points earned by the total number of credits attempted. Courses graded INC, WD, and P are not computed in determining the grade point ratio. A = 4.0; B = 3.0; C = 2.0; D = 1.0; F = 0. Example:

A	Credits ttempted	Credits Earned	Grade	Grade Points	
Organic Biochemistry	/ 4	4.	· •A	· 16	
Creative Writing	;3 .	3 ,	Α	12 .	
Origin of Cities	3	3	С	6	
Abnormal Psycholog	y 3 .	3	В.	-9	
Social Movements	´ 3	3	D. `	3	
Independent Study	0.	. 2	P,	0	
	16	· 18		46	

Grade Point Average = 2.87

Only courses taken at William Paterson College are computed in determining the grade point average.

Seniors who fall below a 2.00 cumulative grade point average during the senior year are permitted to take additional courses for a limited period of time, usually one semester or term, to achieve a satisfactory average. Seniors who fall into this category are notified of probation or dismissal and must see the appropriate dean for consideration about continuing.

Reinstatement Any student who, upon appeal, is reinstated is subject to such terms and limitations which are conditions to reinstatement. A student's eligibility for co-curricular or extracurricular activities is determined by the sponsor of such activities, following appropriate approval procedures.

Withdrawal from the College Withdrawal from college may be initiated at any time prior to the last month of classes of each academic semester. Withdrawal from the College requires an exit interview with a member of the Counseling Department staff.

Students who withdraw from the College or from all of their courses must consult with the Admissions Office for readmission to the College according to the admissions calendar for the year following. Readmission is not automatic; enrollment and other considerations may not permit return at that time. Students on probation who withdraw and, subsequently, seek readmission must also seek readmission to a major, if a major had been previously declared.

Leave of Absence A student who finds it necessary to leave college for one or more terms may apply for an official leave of absence if he qualifies scholastically, and thereby maintains status as an admitted full-time student.

Leaves of absence are processed in the Advisement/Counseling/Evaluation Services Office and require an exit interview with a member of that office's staff.

Scholastic Regulations The College expects the student to be aware of, and to be directly responsible for, his academic progress. A student who is experiencing academic difficulty is advised to consult first with the faculty member directly concerned. If for some reason his problem cannot be resolved, the student should consult his assigned academic advisor.

Upon admission to the Collège and to a major program, the student is given a work prögram, outlining particular requirements and recommending the sequence in which he should pursue those requirements. It is the student's responsibility to maintain the work program, keep it updated, and have it available each time he consults with his academic adviser and registers for the next semester. A student who misplaces or loses his work program may obtain a new copy from the director of advisement and must pay the standard fee if a transcript of his grades is needed in order to complete the new copy of his work program.

Academic Honors

Dean's List A student carrying a minimum of 12 credits who earns a grade point average of 3.45 or better is named to the dean's list.

Courses taken under the pass/fail option are not counted toward the 12-credit requirement.

Graduation Honors Students who have completed at least 60 credits at William Paterson College and who graduate with a final grade point average of 3.45 or better for all undergraduate courses are recognized as honor students with the following designations:

Average of 3.45-3.64 = cum laude Average of 3.65-3.84 = magna cum

laude

Average of 3.85-4.00 = summa cum laude

General Curriculum Requirements

To qualify for an undergraduate degree at William Paterson College, a student must earn a minimum of 120 credits. In most instances, the total will include:

60 credits in general education, most taken during the first two years;

30-40 credits in an area of specialization (major);

20-40 credits in elective courses, taken throughout the last three years of study.

Students must take responsibility for making sure that their selection of courses meets the requirements of their chosen degree program; they should consult regularly with their faculty advisor for guidance.

This pattern may be varied by obtaining credit through advanced standing or placement, special and challenge examinations, the College-Level Examination Program (CLEP), the College Proficiency Examination Program (CPEP), and for military training and experience.

These opportunities are described in detail under "Curriculum Individualization" on p. 12

Electives may be chosen entirely on the basis of interests. They may be taken to complement general education requirements, develop a minor in another area, qualify for a vocational certification, increase competence in the major, prepare for graduate study, or to satisfy curiosity.

To take a course which has a prerequisite, a student must successfully complete the prerequisite, or obtain special permission from his adviser to take the elective without the prerequisite.

Freshman Basic Skills Program

On March 18, 1977, the Board of Higher Education of New Jersey mandated a basic skills program to test all entering freshmen in state public colleges and to provide remediation in reading, writing and mathematics for those students whose performance on tests in these areas are unsatisfactory according to current college standards. Assessment of basic skills is made through the administration of the New Jersey College Basic Skills Placement Test which consists of the following: essay, reading comprehension, sentence structure, computation and elementary algebra.

Tests are administered to all who are accepted as full-time freshmen, to freshman transfer students who have not taken these tests, and to part-time non-degree students registering for the 12th credit. Students enrolled in the six-credit freshman program, English as a Second Language, are tested upon completion of the program.

Students needing remediation are placed in appropriate courses to develop essential academic skills. Students requiring remedial work in reading and/or writing may not register for more than 12 credits per semester, including remedial courses, until they have completed these requirements. Students requiring remedial work in mathematics only may not register for more than 15 credits per semester, including remedial courses, until they have completed these requirements. Basic skills courses carry college credit but do not count toward the credits required for a baccalaureate degree. Credits earned in remedial courses are included in determining students' classification (e.g., sophomore, junior, senior) and in defining full-time student status.

To continue at the College, students must either achieve satisfactory scores on the basic skills placement test, or complete assigned remedial courses successfully before enrolling for their 46th credit.

Before students may enroll in ENG 110, Writing Effective Prose, or advanced mathematics courses, they must pass any required basic skills courses in the appropriate areas.

All students must earn a grade of "C" or better in ENG 110, Writing Effective Prose. Normally students meet this requirement in the freshman year and must meet it before start of the junior year. Students whose first language is not English, as determined by a standard test (TOEFL) score, must pass ESL 101 and ESL 102, English as a Second Language, before enrolling in either regular or specially designated sections of ENG 110, as determined by a professor's evaluations or placement tests.

Undergraduate Degree Requirements

Undergraduate degree programs at William Paterson College are comprised of course work in general education, concentration in a major, and elective courses, totalling a minimum of 120 credits. Some degree programs require more than 120 credits for graduation.

General Education The goal of general education is to provide broad, coherent knowledge for the development of the individual and his participation as a citizen in society. Common knowledge is needed to foster critical and creative thinking, effective writing and communication, and the formation of humanistic values.

To this end, general education courses introduce the student to basic concepts and methods in major fields of knowledge. Their collective aims are to develop an appreciation of literature and the arts, an understanding of the natural world and knowledge of our own and other societies

Sixty (60) credits of general education course work must be completed for the bachelor of arts and bachelor of science degrees. General education requirements differ slightly for students receiving B.F.A. or B.Mus. degrees.

Major Courses A student should pursue a discipline or course of study in sufficient depth to be acquainted with both the basic body of knowledge therein and the frontiers to which it reaches. Credit requirements for major areas of concentration vary according to type of program. Courses applied to a major may not be used to fulfill general education requirements.

- 1. In a bachelor of arts program, major courses total between 30 and 40 credits.
- 2. In a bachelor of science program, up to 60 credits may be required.
- 3. In specialized degree programs, such as the B.F.A. and the B.Mus., major course requirements may exceed 60 credits.

Elective Courses Students are encouraged to explore areas of study not included under the general education designation and not included in the major course of study.

General Education Requirement The general education requirement is divided into two parts, the college curriculum requirement (51-53 credits) and the school curriculum requirement (7-9 credits).

College Curriculum

Requirement 51-53 credits

Arts and Communication 6 credits Art

Music **Theatre**

Communication

No more than 3 credits may be taken in any department.

В.	Humanities	18 credits
	Writing Effective Prose	3 credits
	Foreign Language	6 credits
	History	3 credits
	Literature	3 credits
	Philosophy	3 credits

- C. Science 9-11 credits **Mathematics** 3 credits Science 6-8 credits (4 credits if a lab course)
- D. Social Sciences 9 credits Anthropology

Geography Political Science

Psychology Sociology

Economics (from the School of Management)

No more than 3 credits may be taken in any one area.

E. Other 9 credits

- 1. A course in health or movement science 3 credits 2. A course dealing with
- racism and/or sexism in America 3 credits
- 3. A course in computer literacy 3 credits

Waivers from college curriculum requirements are provided, when deemed necessary. When the need for a waiver arises because of requirements for mandated courses set by an outside accrediting agency, priority is given to the requirement of the accrediting agency. A student who requests a waiver should apply to the major department chairperson, who then forwards the request to the appropriate dean. The remaining general education requirements are stipulated by the major department and/or school.

Policy on Independent Study

The purpose of the undergraduate independent study program at William Paterson College is to encourage self-education under the auspices of a faculty supervisor. The program is open to junior and senior students who have shown themselves responsible and capable of self-direction and who possess a grade point average of at least 3.0, both overall and in the major, or in the field of the independent study. Independent study cannot substitute for an existing course, but may be utilized in lieu of a degree requirement.

A student cannot undertake an independent study for which the student has had no background. The choice of topic for an independent study should be initiated by the student.

An application form, with a one-page prospectus, should be submitted to the sponsoring faculty member. The application form requires the approval of the faculty member, the department chairperson and the dean of the respective school. The completed application must be submitted by the dean to the registrar no later than the late registration period for the semester in which the independent study is to be undertaken. This deadline may be moved to an earlier time at the discretion of a department. The prospectus should include:

- 1. Statement of the purpose of the project.
- 2. Description of the proposed methodology to be used in carrying out the independent study.
- 3. A brief preliminary bibliography.
- A proposed time schedule.
- 5. If the project is expected to continue for two or more semesters, it should be clearly stated which part of the proposed work should be completed by the end of each semester.
- 6. Description of the final product which will be evaluated for independent study

Three credits of independent study may be undertaken in a given semester; no more than nine credits of independent study may be credited toward degree requirements. Credit and grade is awarded by the faculty sponsor.

Multiple Major Courses of Study

A student can select a second major course of study. Upon successfully completing an additional major, the student is awarded a single degree. Notation of completed major courses of study are made on the student's official transcript. The student determines the primary major, but is counted as a full major in each program.

General Arts and Sciences Students

Students who exercise their option not to select a major program when first enrolling in the College are classified as general arts and sciences students. Such students should normally attempt to complete the general education requirement during the first two years and should normally apply for admission to a major program during the sophomore year. Applications for admission to a major program are available in the Advisement Office.

The course requirements for each major are described fully elsewhere in this catalog. Major requirements are established by department faculty.

Curriculum Individualization

The degree programs outlined in the respective majors represent minimum requirements for all students who wish to receive a baccalaureate degree from William Paterson College. The College does, however, offer credit options to students who demonstrate unusual experiences, interests, and abilities.

Undergraduate students may receive course credit, advanced placement, or advanced standing. Criteria include school records, official documents, and various examinations referred to below. Credit thus gained may be used to accelerate or enrich a student's program. Students who wish to complete a degree in a shorter period of time may pursue various acceleration options; students who wish to complete work or courses beyond those ordinarily prescribed in a major or for a degree may choose enrichment opportunities.

Credit by Examination Currently registered undergraduate students in good standing may receive credit for certain courses by successful performance in examinations offered by academic departments, or in examinations of the College Level Examination Program (CLEP), or the College Proficiency Examination Program (CPEP). In some instances, a supplementary laboratory, practicum, or performance examination may be required to satisfy major program requirements.

A student who thinks that he has sufficient knowledge, acquired by experience or private study, is encouraged to accelerate or enrich his college program in this way. When credit by examination is awarded by the College, it is so entered on the student's transcript. Failure in such examinations carries no penalty.

The credit by examination policy is subject to the following limitations:

- 1. No duplication of credit is permitted.
- No examination is permitted in a subject in which the student has pursued more advanced work for which he has received credit.

- 3. No examination is permitted in courses in which failing grades have been previously assigned.
- 4. The level of achievement required for award of credit is at least that which is normally specified and recommended by the American Council on Education and generally accepted practice.
- Transfer students are entitled to advanced standing, subject to the above general limitations.

Such standardized and challenge examinations should not be undertaken lightly by the student, for acceptable standards and norms for satisfactory achievement are locally and nationally established, and the grades thereby achieved do become a part of the student's permanent record. Full-time students who attempt these testing options are still expected to maintain a minimum 12-credit load during any semester of residence; exceptions may be made for students in their final semester of degree completion.

Since college policy requires that a student complete the last 30 credits at WPC, a student may be awarded a maximum of 90 credits toward the baccalaureate degree through CLEP, CPEP, challenge examinations, and other credits awarded for advanced standing. Students who avail themselves of this maximum advanced standing credit are, nevertheless, expected to fulfill all major program prescriptions even though they may exceed the minimum 120 credits for the baccalaureate degree. The various testing options are more fully discussed below.

CLEP The College-Level Examination Program is a nationally-recognized series of general and subject examinations which tests primarily the content and theory of undergraduate courses normally offered during freshman and sophomore years. They are prepared, updated, and processed by the Educational Testing Service. The general examinations consist of tests in the five following areas: English, humanities, mathematics, natural sciences, and social studies-history. Successful completion of the full battery of general examinations entitles a student to 30 credits, prorated for the student who attempts or succeeds in any of the separate examinations. The College recognizes and grants credit for a satisfactory performance above the 25th percentile.

Subject examinations are available and are generally equivalent to freshman-sophomore electives or introductory courses in major program sequences. Some subject examinations are equivalent to single semester, three-credit courses; others to two-semester, six-credit sequences. The College recognizes and grants credit for a satisfactory performance in these examinations for a minimum standard score of 45.

Credit for **Writing Effective Prose**, ENG 110, is granted only upon successful completion of the subject examination: **College Composition with Essay**.

Credit is awarded to students upon the initial test or the first retest only. Since CLEP tests are primarily geared to freshman-sophomore levels, a student may be granted a maximum of 60 credits through these tests wherever earned.

Any currently enrolled student who has completed 60 credits or more is ineligible to take the CLEP general examinations.

When applicable to the student's major program, such examinations in CLEP may be taken only with the prior permission of the major department and the appropriate dean and only prior to the completion of 90 credits. Such permission in writing must be received by the registrar prior to the student's application for CLEP subject examinations.

Prior to the completion of 90 credits, subject examinations may be taken for elective or general education credit. Special permission is not required.

CPEP The College Proficiency Examination Program was established by the New York State Education Department. Examinations in the program are sometimes similar to and, at other times, different from the CLEP series. The major New Jersey institution employing CPEP examinations is Thomas A. Edison College.

William Paterson College recognizes and accepts a grade of "C" or better on some examinations presently available in this series, subject to the following restrictions:

- No duplication of credit for CPEP and CLEP tests is permitted.
- Students who have completed content and theory examinations may be required also to take local laboratory or performance examinations under special arrangements and with an additional fee.
- Certain examinations may not be accepted in fulfillment of baccalaureate major programs and/or certification requirements. Students should consult major advisors about the acceptability and transferability of credit in their major sequence.
- 4. Unlike CLEP tests, only results of the initial testing are recognized by William Paterson College. Students are cautioned that passing grades earned in these examinations are added to their permanent record.

Military Credit USAFI course credit is counted as "military" credit. Correspondence courses taken through an accredited college count as academic credits. College correspondence courses, USAFI courses, or a combination of both, are limited to a total of 30 credits. Speech performance courses taken by correspondence are not accepted for credit.

Credit for military service schools is granted in accordance with the recommendations published by ACE in A Guide to the Evaluation of Educational Experiences in the Armed Services.

Since no military credit will be added to the record of a student in the degree completion program unless the work was completed prior to entry, any desired USAFI courses should be taken while still on station before enrolling at William Paterson College.

Credit for Veterans Following the recommendations of the American Council of Education, the College awards credit to qualified veterans for military and academic experiences. Each veteran who has served at least one complete year in service is awarded three credits for military service. In addition, veterans may apply for an evaluation of any courses they may have completed in special training schools, correspondence schools and academic courses completed under the auspices of the United States Armed Forces Institute. The College adheres strictly to the minimum recommendation for credit by ACE and USAF.

Air Force ROTC William Paterson students can earn appointments as commissioned officers in the United States Air Force through an ROTC crosstown agreement with the New Jersey Institute of Technology. Students with two or more years of college remaining, in either undergraduate or graduate programs, are eligible to apply. Credits for all aerospace study courses taught at NJIT are applicable as free elective credits toward graduation from William Paterson College. For information on the conditions, benefits and procedures of the program, contact the Office of the Registrar.

Special Programs

Pre-Medical Programs

Students interested in careers in medicine, osteopathy, podiatry, dentistry, or veterinary medicine should see p. 87.

Pre-Law Preparation

Although there is no prescribed pre-law curriculum, students are generally advised to concentrate on a course of study to develop effective methods of study, communication and thought. The selection of a major may be based on the student's individual interests and talents. Courses in advanced English composition, accounting, economics, mathematics, philosophy, science, social science and humanities are generally useful in developing the aptitude to think analytically and logically and are often recommended. The student is advised to plan an undergraduate course of study with the advice of an advisor and in consultation with the various law school catalogs available in the Office of Career Counseling and Placement. Applications for the Law School Aptitude Test (LSAT) may be obtained at the Peer Advisement desk in Raubinger Hall.

The Educational Opportunity Fund Program

The Educational Opportunity Fund program (EOF) is a special admissions and support program for students who are educationally underprepared and financially disadvantaged. The program is designed to provide full financial support and a broad range of educational and counseling assistance for all eligible students.

The program offers students the opportunity to begin their college experience in a summer program organized to assist students to become familiar with the academic demands of higher education, to strengthen basic skills, and to gain exposure to the campus and college life. The EOF program also assists students in their personal and social adjustment to college.

To be eligible, students must have been residents of New Jersey for the past year, have a gross family income which does not exceed \$12,000, and demonstrate potential for academic success.

Continuing Education

In conjunction with each of the schools of the College, the Center for Continuing Education offers conferences, workshops and seminars each semester for professionals in business, education, government, and health services. These offerings are developed in recognition of the fact that continued competence in one's profession requires constant updating. The latest methods, techniques, theories and ideas in various areas are explored in these programs by members of the William Paterson College faculty and national and local specialists.

To cause minimal disruption in professionals' busy lives, most continuing education programs are scheduled on Saturdays. Generally, workshops and conferences are offered for upper undergraduate or graduate credit or noncredit. The majority of participants come from outside the College, although William Paterson College students are encouraged to attend offerings which cover topics of special interest to them.

Continuing professional education, however, is only one of the continuing education activities, which involve the entire college community. Those who resume study after a time lapse, adults who seek additional training for career growth, and people who desire intellectual stimulation for personal enrichment form a significant segment of the student population. Many attend on a part-time basis, days, evenings or Saturdays.

The Center for Continuing Education works with other administrative offices to provide support services for nontraditional students. Further information is available from the Center for Continuing Education at 595-2436.

Summer Sessions

The College offers two separate day and evening sessions during the summer months. Pre-session is a four-week program offered in June. The regular summer session makes available to regularly enrolled and visiting students an extensive offering of courses. Information about both sessions is available upon request from the Center for Continuing Education.

National Student Exchange Program (NSE)

The National Student Exchange Program provides students with educational alternatives in one of 54 participating institutions throughout the United States. Sophomore and juniors with a minimum GPA of 2.5 are eligible to exchange for one semester or a full academic year at in-state tuition rates. Room and board, as required, are arranged with the host institution. Further information and application may be obtained from the Office of the Dean of Students.

Semester Abroad

Semester Abroad, a 15-credit program, is open to students above the level of freshman and involves directed study and individual research at selected institutions in Denmark, Great Britain, Israel, Australia, Greece and Spain. To qualify as an applicant, a student must have a minimum 2.5 GPA on a 4.0 scale and must be approved by a review committee selected from the college staff. Students who wish to use this experience in any way related to their major programs must also receive authorization from their major department. Additional information is available from the Office of the Dean of Students.

Honors Programs

Biopsychology The honors program in biopsychology draws on discoveries in such fields as behavior genetics, neuroanatomy, brain chemistry, neurophysiology, psychopharmacology and many others to unravel the biology of the mind and behavior. The National Science Foundation awarded two grants to support the development of this program. As with all honors programs at WPC, biopsychology is not a major, but a distinctive cluster of courses which adds breadth to, and reinforces, students' chosen majors.

Open to majors in psychology, biology, chemistry, sociology and nursing, this program is highly recommended for students planning graduate study—including premedical/dental/veterinary/graduate nursing students—and, in general, those students interested in clinical or research careers. As an honors program, biopsychology is designed for highly motivated individuals seeking opportunities both to learn and demonstrate excellence.

Interested students begin with a set of foundation courses carefully selected to provide a firm basis for the study of more advanced disciplines: Foundation courses begin in the freshman year. Students begin taking the core biopsychology courses in the junior year. The curriculum is enriched with seminars, discussion groups, research opportunities and speaker series. Students and faculty participate together in a closely knit academic community.

Humanities The humanities honors program provides a humanistic focus on a student's course of studies. Drawing upon literature, art, philosophy, history and religion, the program examines a wide variety of human ideals, goals and values from the classical to the modern era.

Students majoring in the humanities, the social or physical sciences, business or the professions can benefit from the perspective afforded by the humanistic disciplines.

Courses are team taught by faculty members of the humanities' departments who discuss the evolving patterns of human self-awareness in the great writers of the classical, medieval, early modern and contemporary worlds. The program makes ample use of guest speakers, films and special events to enhance regular classes. Students also have the opportunity to work independently on private projects.

International Management Students of exceptional ability and interest become eligible to enter the honors program in international management during the first semester of the sophomore year. The program combines both regular and special honors section courses in economics, business administration, political science, and accounting with foreign language and area studies such as history, geography and anthropology in Latin American, Far Eastern or European affairs. Students graduate with a bachelor's degree in their major with honors in international management."

There are eight model curricula for students majoring in either business administration, economics, accounting, political science, history, geography, sociology, or foreign languages. This program has been made possible, in part, by a grant under the Foreign Language and Area Studies title of the National Defense Education Act and was selected by the Council on Learning as one of 50 exemplary programs of international education in the United States.

Graduate Programs

The College offers regular graduate programs leading to a master of arts, master of science, master of education and master of business administration.

Detailed information about programs, course offerings, and admission requirements may be obtained by contacting the Graduate Admissions Office.

Educational and Support Services

Academic Advisement

The Academic Advisement Office, located in Raubinger Hall, facilitates the undergraduate advisement process so that each student can receive the curriculum guidance necessary for academic success. In addition to developing general advisement materials and acting as a referral service for students and faculty, the office provides the following services:

Assignment of Faculty Advisors Upon admission to the College, each student is assigned a faculty advisor to provide assistance with curriculum planning appropriate to the major course of study.

All students must meet with their faculty advisors prior to registering for courses each semester. Information on office location and office hours of faculty advisors is available in the Peer Advisement/Information Center.

Peer Advisement/Information Center The Academic Advisement Office operates the Peer Advisement/Information Center as a supplement to the advisement services offered by faculty advisors.

Trained student advisors offer assistance with general education and elective course selections, and how to use the curriculum control sheet, which outlines degree requirements for a major.

Located just inside the main entrance of Raubinger Hall, the center functions as a centralized outlet and distribution point for campus information, including undergraduate catalogs, curriculum control sheets for every major, class schedule booklets and graduate school test booklets.

Declaration/Change of Major(s) Students may declare or change one or more majors after completing at least one semester at WPC. Declaring or changing majors is a four-step process:

- The student completes a declaration/change of major(s) application in the Peer Advisement/Information Center. This form can be completed during the months of September, January, and July.
- The application is sent to the department chairperson of the requested major(s) for consideration.
- 3. The student is notified by the Academic Advisement Office of the department chairpetson's decision.
- 4. If the student is accepted into the requested major department, a faculty advisor from that department is assigned to the student by the Academic Advisement Office. If the student's application is rejected by the requested major department, the Academic Advisement Office provides the student with reasons for rejection, as well as alternative courses of action.

Students should declare a major no later than the end of the sophomore year.

Campus Ministry

In recognition of the various religious backgrounds present in the college community, clergy from the major faiths are on campus for counseling.

Career Counseling and Placement

The Career Counseling and Placement Office is concerned with all aspects of student development related to career decisions.

It provides all students with vocational counseling related to choosing, preparing for, entering into, or progressing in an occupation and assistance in locating part-time and summer work off campus.

Graduating seniors, matriculated graduate students, and alumni are helped to find suitable employment. Each fall, graduating seniors are mailed a kit containing instructions for preparing a complete credential file and samples of important documents, such as resumes, cover letters, and reference forms. Help in developing dual files for teaching and non-teaching positions is also available where needed. Note: Transcripts are not a part of creden-

The Career Counseling and Placement Office also offers students and graduates:

tial files.

- Advice in preparing resumes and cover letters.
- Vocational clinics which help develop interviewing skills and techniques and methods for marketing individual skills.
- 3. Psychological and vocational testing.
- Individual and group vocational counseling for individuals in need of clarifying their ultimate goals.
- 5. Annual career conferences which expose students to current career information and help them to establish contacts with potential employers. A variety of recruiters come to the campus each year to interview prospective candidates for positions with their firms and agencies.
- 6. Reading materials which serve as career counseling guides. A career library—designed to stimulate career interest, convey career knowledge, and aid in the selection and pursuit of a career—offers an extensive selection of information and resources. A special graduate section is devoted to graduate programs, internships, and assistantships. Other library subdivisions offer company brochures, business and industrial information; career files; teaching and nonteaching job listings; federal, state, county, and local civil service information; and a woman's section.

The Career Counseling and Placement Office, in cooperation with the federal government, deals only with schools and firms which observe the non-discrimination laws.

Center for Academic Support

The Center for Academic Support provides tutoring for the general college population, and academic counseling and advisement for special-category students.

Anyone in need of academic assistance should apply directly at the facility. The Center is located between Raubinger Hall and the Coach House. There is no charge for services to all registered WPC students.

Child Care Center

The WPC Child Care Center, located in Hobart Hall, is open from 8 a.m. to 5 p.m., Monday through Friday. Children of full-and part-time students and faculty-staff members are accepted on a "first come, first served" basis, provided they are between two and five years old, toilet trained and self-sufficient. The curriculum at the center concentrates on social, personal, emotional, physical and cognitive development. Further information may be obtained by telephoning (201) 595-2529.

Counseling and Evaluation Services

The Office of Advisement/Counseling/ Evaluation Services offers a wide range of counseling services to students. Staff members trained in clinical and counseling psychology are available to meet with any student who requests personal counseling, a readmission interview, or a leave of absence or withdrawal consultation.

Psychological counseling interviews are private and totally confidential. Initial interviews are arranged within a few days of a student's request. Emergency situations, of course, are handled immediately.

A psychologist or counselor is available, without charge, to discuss any deep personal conflicts that may be preventing a student from moving forward and achieving goals. Both short-term individual and group psychotherapy are offered.

Disabled Students Services

The Office of Student Activities coordinates services for disabled students including assistance in registration, advisement, parking, referrals and other special needs.

Health Services

The Health Office in White Hall, open during the school day, Monday through Friday, and staffed by three full-time nurses and a daily part-time physician, serves the medical needs of students. Each student is required to submit a self-evaluation medical history form prior to entry. Periodically, students are required to submit evidence of freedom from tuberculosis. An examination by the college physician may be required of any student at any time to determine whether the student's physical condition warrants continuing in college.

Insurance

Students and their parents are urged to enroll in the insurance plan. Family insurance often does not cover children after their 19th birthday. The policy offered is in force, regardless of family policies, 24 hours a day, 12 months of the year. Instructions can be obtained at the Health Office.

Veterans Affairs

The Office of Veterans Affairs provides services for veterans, or dependents of deceased and disabled veterans.

Supportive counseling and referral services, and supplemental academic assistance, are available to all veterans regarding personal/social and financial adjustment, tutorial aid, and refresher coursework.

The educational assistance program administered by the Veterans Administration provides financial aid for the education of all eligible veterans. The College provides direction and serves as a certifying agency with regard to veterans educational benefits and/or dependents educational assistance.

Student Life

Recognizing the need for the social and cultural, as well as the academic development of the individual, WPC offers a wide range of activities to meet the needs and interests of the entire student body. Students directly participate in selecting, planning and implementing social and cultural events. Through participation in campus organizations and activities, students gain experience in governing their own affairs, accepting responsibility, and learning to appreciate other people and their points of view. Annual activities generally include Homecoming, Fall Fest, Spring Week, feature and art films, folk, rock and jazz concerts, lectures, dances, theatre presentations, art exhibits and many others. Any student who wishes to participate on committees, or join any club or organization may obtain information by confacting the director of student activities or the Student Government Association in the Student Center. All students are encouraged to participate in the activities of their choice and membership in all clubs and organizations is open to all William Paterson College students regardless of race, religion, sex, national origin or handi-

Clubs and Activities

Extracurricular life at WPC is largely sponsored by dozens of campus clubs—service clubs, cultural clubs, academic clubs and special interest clubs. The Student Activities Programming Board (SAPB) assists all of these groups in developing school activities and cultural events.

The Board is sanctioned by the Student Government Association and is solely dependent on student input. Membership is open to all interested students.

The Board is composed of the following nine committees, each sponsoring activities in its particular area: Cinema, concerts, creative arts, entertainment, lectures, public relations, publicity; recreation and student services.

Active Chartered Clubs

Accounting Society Arabian Student Cultural Club Art Education Association Ba ha'i Club Black Student Association **Business Students Association** Campus Ministry Club Chess Club Chinese Club Christian Fellowship Club Circassian-Turkish Club Computer Club of WPC Creative Source Dance Emsemble Dorm Association Early Childhood Organization English Club Equestrian Team Essence Magazine French Club Galen Society Geography Club German Club Gospel Choir

Health Majors Organization Health Sérvice Club History Club Ice Hockey Club International Students Association Intramurals Irish Club Jewish Students Association Mathematics Club Men's Tennis Club Music Students Association Natural Science Club Nursing Club Once Again Students in School Organization for Latin-American Students Physical Education Club Pioneer Players Psychology Club Ski Club Ski Racing Team Social Work Club Sociology Club Spanish Club Special Education Club Speech Pathology Club Student Art Association Student Mobilization Committee Students for Environmental Action Twirler's Club WPC Chemical Society

Honor Societies

Young Americans for Freedom

The College sponsors a number of honor societies in various disciplines: They are: Alpha Phi Gamma (Delta Chi Chapter):

journalism and communications Omicron Delta Epsilon: economics Phi Alpha Theta (Tho Alpha Chapter): history

Kappa Delta Pi (Zeta Alpha Chapter): education

Pi Lambda Theta (Beta Chi Chapter): women in education

Alpha Kappa Delta (Gamma Chapter): sociology

Nursing Honor Society: nursing Psi Chi: psychology

Inter-Fraternity/Sorority Council

The IFSC is the umbrella organization for social fraternities and sororities at WPC. It sponsors campus-wide events and champions social responsibility among its member organizations. Currently, there are ten social fraternities and sororities on campus.

Service Clubs

The **Beacon**, the weekly college newspaper published by students whose aim is to present and interpret news of college activities and to serve as a medium for the expression of student opinion, has several times been awarded first place in the college division of the Columbia Scholastic Press contest.

Helpline (201) 956-1600—A volunteer student service designed to answer the particular kinds of questions college students have about themselves and the College. These questions can be of an intensely personal nature, such as drug or alcohol dependence or sexual matters, or about regis-

tration, financial aid, or courses. As with the Drop-In Center, complete confidentiality is guaranteed.

Helpline's Drop-In Center—Trained students provide counseling for all students. The Helpline is open from 12 to 5 p.m. and from 7 to 11 p.m. Monday through Friday and from 7 to 11 p.m. on Saturday.

Pioneer Yearbook—A college annual which provides an overall pictorial and editorial record of the activities of the college year and senior class.

WPSC Radio—Students have the opportunity to learn the many facets of radio through practical experience and can participate in broadcasting music, news, and sports, as well as learn about advertising, engineering and audio production. WPSC, located in Hobart Hall, is also carried on UA Columbia Cablevision.

Women's Collective—Women from the college community seek to promote the interests of all women on campus and to heighten awareness of the emotional, social and political pressures women face. The collective meets in the Women's Center, Matelson 262, to plan activities and to accomplish consciousness-raising.

Activities, functions, and services include a gynecological clinic, consciousness-raising groups, peer and career counseling, academic advisement, women's studies courses, lectures and poetry readings, as well as an annual conference.

Government

Students are expected to participate in college decision-making. All full-time students are members of the SGA, the Student Government Association, which is funded by student activity fees. Four elected officers and various committees protect student rights and advance student causes.

The SGA is also responsible for chartering and funding more than 60 campus organizations, which are divided into the categories of service, special, cultural and academic interest.

Additionally, the SGA retains the services of a professional attorney, who offers free consultation to students during weekly visits.

Part-Time Student Council

Every part-time student who attends day or evening classes, including graduate students, is a member of the Part-Time Student Council and is eligible to be a delegate on the governing board. The Part-Time Student Council plans and implements activities for its constituents and provides a forum for an exchange of views. Information regarding P.T.S.C may be obtained in the Student Activities Office.

Alcohol Review Board

The ARB is charged with overseeing responsible use/consumption of alcoholic beverages on the WPC campus. Representatives are elected from students, faculty and administration. The Alcohol Control Committee reports to the ARB under the supervision of the vice-president for student services.

Residential and Dining Facilities

All residence halls are co-ed and are staffed by directors and resident assistants, who handle emergencies, help resolve roommate conflicts, and aid in counseling when personal problems arise.

The charge for residing on campus is \$1800 per year. The amount is payable in two equal payments prior to the first day of each semester. Due dates are established by the Housing Office for those students who move in at other times during the school year.

The health of resident hall students is under the supervision of the college nurses and physician. A nurse is on duty nights to assist in cases of illness, accidents, and emergencies. All residents, regardless of age, must submit a medical release in the event emergency treatment is required.

All residents must be covered by either a family or a college medical insurance policy during their term of occupancy in the residence halls.

The Towers Completed in September, 1982, the Towers offers air-conditioned double or single rooms for more than 1,000 students. All freshman resident students are housed in the Towers.

Most rooms house two students and include modern furnishings. Two rooms, connected by a bath, comprise a suite. Students are responsible for their own linens and personal effects. Students living in the Towers must subscribe to the WPC meal plan at a cost of \$300 per semester.

Pioneer and Heritage Halls Pioneer and Heritage Halls offer comfortably furnished apartments for 530 students, complete with air-conditioning and dazzling views of the New York City skyline. Each two-bedroom unit, which houses four students, also includes a living room and kitchen facilities. Students are responsible for their own cooking utensils, bed linens and personal effects. All other items, including beds, desks, lamps, refrigerator and an electric stove and oven are provided. Students in Pioneer and Heritage Halls who do not choose to use their kitchen facilities may eat in any of the many campus dining facilities or off campus

Dining Facilities College dining facilities include the Wayne Hall Cafeteria, the Student Center Restaurant, Billy Pat's Pub, the Snack Bar and the Sweet Shoppe. Billy Pat's Pub, in particular, serves as the focal point for campus entertainment and gatherings.

Off-Campus Housing Many students choose to live off-campus. A full list of off-campus vacancies in local homes and apartments is maintained by the director of housing and is available on request. Arrangements regarding rent and regulations are negotiated directly with the landlord.

Sports and Recreation

The College offers a wide range of intercollegiate, recreational and intramural activities throughout the academic year. A full-size heated pool for swimming and diving is located in Wightman Gym. There are, as well, eight tennis courts, a lightequipped outdoor athletic complex, with fields for baseball, field hockey, football, soccer and softball, and a permatrack.

Intercollegiate Athletics William Paterson College is a member of the highly competitive New Jersey State Athletic Conference, the Eastern Collegiate Athletic Conference, the Eastern Collegiate Athletic Conference, National Collegiate Athletic Association, and the New Jersey Intercollegiate Athletic Association for Women. All teams are Division III and offer no athletic scholarships. The College offers 18 intercollegiate varsity sports for men and women. In addition to these, there are two co-ed sports, equestrian and dance, with ice hockey, ski racing, wrestling and men's tennis organized on a club basis.

Men's varsity sports include baseball, basketball, cross country, fencing, football, golf, soccer, swimming and track. Women's varsity sports include basketball, cross country, fencing, field hockey, softball, swimming, tennis, track and volleyball.

Recreation Center Designed to serve as the focal point for physical recreational activities, the Recreation Center contains indoor courts for basketball, tennis, racquetball, volleyball and badminton. For students interested in jogging, a two-lane jogging track rims the main arena. There is a weight and exercise room; saunas and Jacuzzis are located in each locker room. The Center can also accommodate 4,000 spectators for concerts or exhibitions.

Student Center

The Student Center serves as the campus focal point for social, cultural, and recreational activities for the entire college community. Students, faculty, staff, community members, and alumni congregate here for a wide range of events and to use Student Center services and facilities.

Completely air-conditioned, it houses all of the dining facilities except the Wayne Hall Cafeteria. The College Bookstore is located here as is a full-service bank and an ice cream parlor. Other facilities include a ballroom, student offices, lounges and study rooms.

Alumni Association

Every student who earns a degree from William Paterson College is automatically a member of the Alumni Association. The Association maintains contact with alumni, informs alumni about college developments, produces alumni events and activities, and promotes the interests of the College.

Upon graduation, all alumni receive identification cards, enabling use of many college facilities that were available to them as students. Alumni may attend athletic events and use recreation facilities, have library borrowing privileges, may participate in student activities, have access to the pub, and much more.

The Alumni Association is financed through an annual fund drive, which solicits contributions from all alumni. The Association's annual phonathon is one of the annual fund drive activities.

The School of the Arts and Communication

Jay Ludwig, Dean Office: Ben Shahn Center for the Visual Arts 107

The School of the Arts and Communication offers degree programs in art, communication, dramatic arts, liberal studies and music for students interested in professional careers in these disciplines, including teaching, or in developing avocational interests.

The school also sponsors exhibits of the works of students and professional artists in the Ben Shahn Gallery; dramatic and musical presentations in Shea Center, Hunziker Theatre and Wayne Recital Hall; and television programs produced at the college studios—all of which are open to the college community and the public.

Students may participate in many musical groups, including College Choir, Women's Choral Ensemble, Chamber Singers, and College Chorus (all open to men and women students.)

Performing instrumental groups include guitar, Latin, big band, avant garde and a number of small ensembles including jazz and brass.

Liberal Studies Major

Students interested in several disciplines offered by the School of the Arts and Communication, but who do not wish to major in any one of them, may pursue a liberal studies major. With the assistance of an academic advisor, students select a total of 48 credits from at least three of the school's majors, taking no more than 18 credits in any one of them. Successful completion of this program results in a bachelor's degree in liberal studies: School of the Arts and Communication.

Department of Art

Professors—H.B. Leighton, K. Lunde, J. Lynch, L. Paris, R. Reed

Associate Professors—W. Finneran, A. Lazarus (chairperson), W. Muir, D. Raymond, M. Rothman, J. Ruban, G. Schubert, S. Smith

Assistant Professors—D. Haxton, C. Magistro, G. Perez (half-time), M. Schnur, D. Shapiro

Instructors—J. Brown, P. Baffa (half-time), M. Fay (half-time), D. Horton (half-time), Gallery Director—A. Einreinhoter

The program in art leading to a bachelor of arts degree is designed to develop an awareness of quality in a work of art, to encourage concentration in a central interest as intensively as possible, and to extend the repertories of visual experience and expression through broad exploration in various methods and materials.

For those students who are qualified and desire an in-depth concentration in studio art, the College offers a bachelor of fine arts in design. The objectives of this intense professional curriculum in visual communications are to develop independent thinking and problem-solving abilities, visual aesthetics, professional skills and social and environmental consciousness.

An art major may choose a concentration in art history, ceramics, fibers, furniture design, graphic design, painting, printmaking, photography, metals, jewelry, sculpture and an interdisciplinary concentration in media arts or a combination of the variety of courses available. Graduates of the art program are able to express themselves fluently in their area of concentration and perform competently in their chosen field. Consult the chairperson of the department for further information.

MAJOR REQUIREMENTS: 39 credits STUDIO ART **ART** 160 Graphic Delineation 3 ART 161 Drawing 3 ART . 162 Design Fundamentals I ART 3 163 Color 3 ART 164 Design Fundamentals II **Electives** 15 ART HISTORY **ART** 110 Modern Art I ART 201 Western Art I 3 292 Western Art II 3 ART

78 credits

18

B.F.A	., IN DE	SIGN	
Studi	0	*	•
art	160	Graphic Delineation	3
art	161	Drawing	3
art	162	Design Fundamentals I	3
art	163	Color .	3
ART	164	Design Fundamentals II	3
ΑŗΗ	istory		
art	110	Modern Art I	3
art	150	History of Design	3
ΔDT	211	Modern Art II	વ

Western Art I

Western Art II

MAJOR REQUIREMENTS:

291

292

ART

ART

Desig	an		٠,
ART	241	Production Process:	3
ART	242	2 Dimensional Design Production Process:	3
AIXI	242	3 Dimensional Design	3
ART	302	Graphic Illustration	. 3
ART	311	Design Workshop I	3
art	312	Design Workshop II	3.
ART	313	Print and Publications	3
ART	411	Design Workshop III	3
art	412	Design Workshop IV	3
art	413	Thesis Project I	3
ART	414	Thesis Project II	3

MAJOR REQUIREMENTS:	39 credits
ART HISTORY	

Electives (by advisement)

ART	160	Graphic Delineation	3
ART	161	Drawing	3
art	162	Design Fundamentals I	3
ART	163	Color	3
ART	164	Design Fundamentals II	3
ART	392	Ancient Art	3
ART	396	Baroque and Rococo	3
		•	

Plus one of the following: ART 393 Medieval Art ART 394 Northern Renaissance Art ART 395 Italian Renaissance Art	3 3 3
Plus one of the following: ART 140 History of Film ART 150 History of Design ART 211 Modern Art II ART 320 Ideas in Contemporary Art	3 3 3
Plus one of the following:	
HIST 110 Heritage of the Ancient World	3
HIST 120 Heritage of the Medieval World	.3
HIST 130 The Modern World	3
HIST 140 Chinese Civilization	3
HIST 150 Latin American Civilization	.3
Art history electives (by advisement)	9

MINOR REQUIREMENTS: 18 credits STUDIO ART

Choos	se fou	r of the following course:	s:	
art	160	Graphic Delineation	3	
art	161	Drawing	3	
ART	162	Design Fundamentals I	3	
art	163	Color ·	3	
ART	164 -	Design Fundamentals II	· 3	
Studio electives 6				
Note: It is recommended that a student				

Note: It is recommended that a student electing a minor in studio art take at least six credits in art history.

MINOR REQUIREMENTS: 18 credits ART HISTORY

ART	110	Modern Art		٠ 3
art	291	Western Art I		3
art	292	Western Art·II∵	٠,	3
Art h	istory (9	

Note: It is suggested that a student who wishes to minor in art history also elect six credits from among ART 160, 161, 162, 163, 164

CERTIFICATION REQUIREMENTS 52 credits

Students interested in obtaining certification in art must complete the following:

Academic Content Requirements 9 credits

Choose three courses, one in each of the following groupings:

TOHOW	'ing g	roupings:		
art	321	Painting		3
ART	341	Sculpture	•	3
ART	351	Printmaking		3
ART	371	Photography		3
ART	335	. Weaving	•	3
ART	339	Metalsmithing		3
ART	361,	Ceramics	•	3
Note:	The	Art Department	recommend	ds
that	~ .+	المنط المائييط المحملمين		

that a student build his major areas beyond minimum requirements. Students who pursue a concentration are assisted and guided in the selection of courses by academic advisors in the Art Department.

Secondary Education (K-12) 43 credits Requirements

HSC PSY	120 110	Current Health Issues General Psychology	3 3
PSY	210	Developmental Psychology	3
SED	340	Exploring the Teaching Field (A Pre-Student	1
SED	302	Teaching Requirement) Discovering Your Teaching Self (K-12)	3
RLA	329	Foundations of Reading	3
RLA	330	Reading Strategies for Content Areas	3
EDUC	403	Culminating Field Experience	8
SED	404	Instructional Seminar for Student Teaching	1
SED	326	Art, Children and Learning Vitality	3
SED	327	Art Education in the	3
FASE	405	Secondary School Art Education in the Elementary School	3
Divisions burger relations source from the			

Plus one human relations course from the following:

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SED	381	Educational Sociology	3	
SED	391	Challenge, Change, and	3	
		Commitment in		
		Education		
SED	432	Human Adaptations and	3	
		Alternatives in the School		
URED	482 -	The Inner City Child and	.3	
		His Environment		
Divisional propagation course				

Plus one professional preparation course from the following:

non ne lollowing.			
SED	329	The Competencies of	3
		Open Education	
SED	342	Ecology for Educators	3
SED	380	Insights and Outlooks in	3
	٠.	Education	
SED	428	Simulated Laboratory	٠ 3
		Experiences in	
		Secondary Schools	
SED	430	Teaching Literature to	3
		Young, Adults: Grades 5-12	
SED	480	Field Research in	3
		Teacher Education	
LSM	323	Modern Educational	3
		Media	

Courses

All courses are for 3 credits, unless otherwise noted.

ART 110 Modern Art I (lecture)

A study of the history of art from the French Revolution through the nineteenth century; includes various movements of the early twentieth century. Emphasizes the developments of major schools and styles, as well as significant individual contributions.

ART 130 World Art (lecture)

A survey course for non-art majors. Selected major periods in art history and specific major movements and artists. Introduces arts of painting, sculpture and architecture; develops visual sensitivity and makes the vocabulary of art history meaningful.

ART 140 History of Film (lecture)

Screening of important films in the history of this vital art form. Lectures and discussions lead to an understanding of film as a visual medium.

ART 150 History of Design (lecture)

A detailed view of the evolution of design as an influencing factor in contemporary society. Traces the history of design from the industrial revolution to the present.

ART 160 Graphic Delineation (studio)

Basic course in graphic and instrument drawing techniques. Lettering and graphic presentation, free hand and instrument studies in ortho-graphic, isometric and perspective projections. Outside assignments required.

ART 161 Drawing (studio)

Study of the fundamentals of drawing. Work with various media to develop a firm basis for the comprehensive and visual articulation of form. Outside assignments required.

ART 162 Design Fundamentals I (studio) Studies in the ordering and structuring of 2-dimensional space. The student conceives and executes problems which involve the elements of art and their varied interrelations to develop aesthetic judgment and sensitivity. Outside assignments required.

ART 163 Color (studio)

Intensive study of the action and interaction of color through practice, as opposed to theory. A sequence of interrelated problems develops an awareness of the relativity of color, as well as a process of thought about color and, by extension, about art and its perception. Outside assignments required.

ART 164 Design Fundamentals.II (studio) Design as it applies to 3-dimensional forms.

Skill in handling tools and various sculptural materials is stressed, as is the interrelationship with 2-dimensional design. Outside assignments required.

ART 170 Art in New York (lecture)

Explores New York City as the international center for the visual arts. Students tour major and less familiar museums and landmarks of architectural importance.

ART 211 Modern Art II (lecture)

A study of American and European painting, architecture and sculpture from about 1910 through 1960.

ART 231 Gallery Workshop I (studio)

The procedures and problems of mounting exhibitions and conventional and alternatives spaces with emphasis on details of preparation and installation.

4 credits

ART 232 Modern European Film (lecture) A survey of the major European films and

their aesthetic, social and technical importance from World War II to the present. Prerequisite: ART 140

ART 233 History of Non-Fiction Film

The history of the so-called documentary cinema. Covers cinema from the political, historical, social, governmental, industrial and propaganda fields. Includes the development of documentary film from its beginning in the early twentieth century to the present. Emphasizes non-fiction film from Western Europe, Russia, Great Britain and America.

Prerequisite: ART 1,40

ART 234 Art and Film (lecture)

The study of film as a non-narrative medium. Emphasizes the history of the independent film. Recent films and video tapes by artists serve as a basis for production of film by the students in class.

ART 241 Production Process: 2-D (studio)

A technical workshop in techniques for design presentation. Exploration of materials, procedures, resources and technology used as a creative approach in student's project.

Prerequisites: ART 162 and 164

ART 242 Production Process: 3-D (studio)

Theoretical and studio investigation of 3dimensional structural principles as they relate to the areas of packaging, exhibition, interior and environmental design. Prerequisites: ART 162 and 164

ART 291 Western Art I (lecture).

Art of the prehistoric period to 1400. A study of the development of painting, sculpture and architecture of the prehistoric, Egyptian, Mesopotamian, Aegean, Greek, early Christian, Byzantine, Romanesque and Gothic civilizations.

ART 292 Western Art II (lecture)

Art from 1400 to 1850. A study of the development of Western European painting, sculpture and architecture of the Renaissance, Baroque, Rococo, Neoclassic and Romantic periods.

ART 300 History of Photography (lecture)

A study of photography, beginning with the camera obscura to the present day. Investigations of the aesthetic, social and technical ingredients contributing to its development. Contributions of important photographers and inventors from Europe and America are analyzed and discussed. Prerequisites: ART 110, 211

ART 301 Life Drawing (studio)

A developmental approach; a series of drawing exercises with emphasis on the human figure and the plastic articulation of its construction in a variety of media. Outside assignments required.

Prerequisite: ART 161

ART 302 Graphic Illustration (studio)

An in-depth study of the communicative aspects of illustration. Explores illustration as a tool to communicate objective information and to develop personal creative skills. Prerequisite: ART 301

ART 303 Greek and Roman Art (lecture)

A study of the classical foundation of Western art, i.e., the architecture, sculpture and painting produced by the Aegean, Greek, Etruscan and Roman civilizations between 1500 B.C. and 300 A.D. Major themes: the interrelationships of art, religion and the state in the ancient world and the arts of Greece and Rome as the cultural heritage of the West.

Prerequisite: 1 course in art history

ART 311 Design Workshop I (studio)

An introduction to the graphic profession providing students with the basic working knowledge of techniques and vocabulary. Explores typography, mechanical production, basic lettering and type rendering.

Prerequisites: ART 160, 162, 164

ART 312 Design Workshop II (studio)

An intermediate course for students planning a career in graphic design. Projects involve the integration of typography, color and illustration within a communicative design. Students are encouraged to proceed from detailed analysis of a problem to an inventive solution and an effective visual presentation of this solution. Prerequisite: ART 311

ART 313 Print and Publication (studio)

Introduction to the design and publication of books, magazines, catalogues, etc. Examines theory, styles, trends and mechanics of cover and interior design, typographics, printing and the development of a personal creative approach.

Prequisite: ART 311

ART 314 Art Direction for T.V. Commercials (studio)

Introduces the art student to the principles of art direction and production of television commercials and short information spots as they apply to advertising design.

Prerequisite: ART 162

ART 320 Ideas in Contemporary Art

Explores the numerous relationships between the visual arts and contemporary society in its broadest sense. A study of the visual arts as pragmatic phenomena in our increasingly vague, dehumanizing social technological culture.

ART 321 Painting (studio)

The principles of painting through a series of visual problems. The student gains an understanding of pictorial space through control of paint, drawing value and color. Introduction to a variety of technical processes and media. Outside assignments required.

Prerequisite: ART 160, 161, 162, 163 or 164

ART 323 Watercolor (studio)

Explores all watercolor media and techniques. Emphasizes the development of imaginative design and an individual point of view. Outside assignments required. Prerequisite: ART 160, 161, 162, 163 or 164

ART 324 Experiments in Color (studio)

A sequence of related problems expands concepts introduced in the color course, further emphasizing the relativity of color and its organizations. Experimentation is combined with special emphasis on collage as an art form in itself and its relationships to aspects of painting, illustration, graphic design and photography. Prerequisite: ART 163

ART 331 Advanced Gallery Workshop (studio)

The procedures and problems of curating exhibitions, writing catalogs. Visits to artists' studios and various galleries. May be repeated once for credit.

Prerequisite: ART 231

ART 333 Textile Design (studio)

The creation and application of design to textiles by various techniques including block print, silk screen and batik. Outside assignments required.

Prerequisite: ART 160, 161, 162, 163 or 164

ART 335 Weaving (studio)

Fundamentals and techniques of weaving. Warping and dressing the loom, sample weaving. Experimental approaches to design, color and texture in fabric construction. Outside assignments required. Prerequisite: ART 160, 161, 162, 163 or 164

ART 337 Jewelry (studio)

The design and fabrication of jewelry in silver and other metals by construction and casting techniques. Also projects in enameling and stone setting. Outside assignments required.

Prerequisite: ART 160, 161, 162, 163 or 164

ART 338 Modern Architecture (lecture)

A comprehensive survey of the major architectural monuments from the end of the eighteenth century to the present; the architects and the philosophies that motivated them.

ART 339 Metalsmithing (studio)

The design and execution of holloware in copper and sterling silver sheet metals using hand-forming techniques for forging, raising and stretching. Projects in masonite die. Outside assignments required.

Prerequisite: ART 160, 161, 162, 163 or 164

ART 341 Sculpture (studio)

An introductory course in sculpture using a variety of materials and techniques to create 3-dimensional forms. Outside assignments required.

Prerequisite: ART 160, 161, 162, 163 or 164

ART 351 Printmaking (studio)

Introduction to printmaking involving relief, intaglio and silkscreen techniques. Outside assignments required.

Prerequisite: ART 160, 161, 162, 163 or 164

ART 361' Ceramics (studio)

Physical properties of clay and methods of hand-construction and wheelthrowing. Complete processing through firing and glazing. Outside assignments required. Prerequisite: ART 160, 161, 162, 163 or 164

ART 363 Furniture Design (studio)

The investigation of beginning wood studio techniques involving basic joinery and fabrication of furniture. Concepts of planning and execution of the student's individual point of view.

Prerequisite: ART 160, 161, 162, 163 or 164

ART 371 Photography (studio)

Experiences in the use of the camera, basic developing of black and white film, printing, enlarging, toning and experimental photography. Experimental photography as a means of visual expression. Major emphasis on creativity and design. Outside assignments required.

Prerequisite: ART 162

ART 373 Studio Photography (studio)

A studio course for the student having a firm grasp of black and white photographic and darkroom skills. Covers aspects of artificial light and commercial studio techniques in portraiture, still life, fashion and interior photography using the hand and view camera.

Prerequisite: ART 371

ART 374 Color Photography (studio)

Experiences in basic techniques of developing color film, printing, enlarging, toning, also experimental photography as an art form. Outside assignments required. Prerequisite: ART 371

ART 392 Ancient Art (lecture)

The development of sculpture, painting and architecture from the prehistoric period through the Near Eastern, Egyptian and Greek civilizations, culminating in Roman art. Emphasis on an understanding of structure and materials as well as on the influence of ancient art on Western civilization. Throughout the course, the cultural context of art is stressed. The basic theme is the close relationships in ancient cultures among the arts, religion and the state. Prerequisite: 1 course in art history

ART 394 Northern Renaissance Art

An examination of painting, sculpture and the graphic media in Germany, the Netherlands, France and Spain, from approximately 1325 to 1550. Topics include the development of narrative, printing and graphic processes; vernacular uses of traditional symbolism and themes; the persistence of medieval patterns of thought and vision; and the social content, with particular reference to the Protestant Reformation, of northern Renaissance art. Prerequisite: 1 course in art history

ART 395 Italian Renaissance Art (lecture) A study of a period of great rebirth in the visual arts in Italy from 1300 to 1600 and its significance to our cultural heritage. Prerequisite: 1 course in art history

ART 396 Baroque and Rócoco (lecture)

A study of painting, sculpture and architecture in Western Europe from 1600 to 1800. The baroque and rococo styles are studied in relation to their cultural backgrounds with particular emphasis on the individual styles of the masters.

Prerequisite: 1 course in art history

ART 398 Oriental Art (lecture)

Survey of the arts of India, China and Japan presented in their historical and cultural context.

Prerequisite: 1 course in art history

ART 401 Advanced Drawing

Problems of the student's own choice in various media; to develop fluency in drawing. Outside assignments required. May be repeated once for credit. Prerequisite: ART 161

ART 411 Design Workshop III (studio)

Introduces the student to the experimental investigation between design and technology in the area of graphic arts. Provides the student with the technical training of the printer and the art-oriented training of the graphic designer. Introduces the student to printing processes, typefaces, plate making, copy camera, photo serigraphy and paper stocks.

Prerequisites: ART 311, 312

ART 412 Design Workshop IV (studio)

Students expand their skills and understanding of lettering, type rendering and page layout through a variety of problems in editorial design. Class research projects require students to study in detail one problem of visual communication. Students present their research as a class.

Prerequisite: ART 411

ART 413 Thesis Project I (studio)

Senior-level course. In-depth investigation of the theoretical aspects of the design process within the context of designing effective visual communications. A complete portfolio representation required for a successful completion of Thesis Project I and Thesis Project II. Prerequisite: ART 412

ART 414 Thesis Project II (studio)

Senior-level course. Continuation of ART 413. Critical analysis of student portfolio with emphasis on personal assessments of philosophies and goals.

Prerequisite: ART 413

ART 416 Introduction to Art Therapy (studio)

A survey of the basic conceptual foundations of art therapy. Emphasis on the major theories of various practitioners, such as Naumburg and Kramer, and discussion of various schools including present-day developments such as Gestalt art therapy. The distinctions between diagnostic and therapeutic applications of art therapy are drawn.

Prerequisite: ART 160, 161, 162, 163 or 164

ART 421 Advanced Painting (studio)

Principles of painting with increased emphasis on the student's selection of problems and media. Outside assignments required. May be repeated once for credit. Prerequisite: ART 321

ART 422 Thesis Painting I (studio)

Senior-level course. An in-depth personal investigation of various media and theorectical aspects of painting. A complete portfolio presentation required for successful completion of Thesis Painting I and II. Prerequisite: ART 421

ART 423 Thesis Painting II (studio)

Senior-level course. Continuation of ART 422. Critical analysis of student's painting portfolio with personal assessments of philosophies and goals. Prerequisite: ART 422

ART 428 Advanced Weaving (studio)

Advanced techniques in weaving and pattern drafting. Related problems in design. Further experience in sample warps in yardage weaving. Outside assignments required. May be repeated once for credit. Prerequisite: ART 335

ART 429 Thesis Weaving I (studio)

Senior-level course. Advanced téchniques in weaving. Technique previously introduced may be elected for personal development. A complete presentation of the student's textiles and weaving portfolio required for completion of Thesis Weaving I

Prerequisite: ART 428

ART 430 Thesis Weaving II (studio)

Senior-level course; continuation of ART 429. Critical analysis of student's weaving portfolio with emphasis on personal assessments of philosophies and goals. Prerequisite: ART 429

ART 431 Advanced Metalsmithing

Concentration in jewelry or metalsmithing design and fabrication using a variety of techniques which may include construction, casting, forging, raising, stretching, masonite die, enameling, chainmaking and lapidary. Outside assignments required. May be repeated once for credit. Prerequisites: ART 337, 339

ART 433 Advanced Textile Design (studio) Use of various dyes and dyepaste formulations. Combination of techniques with the given problem. Printing on a variety of materials including silk, linen, wool, velvet, etc. Outside assignments required. May be repeated once for credit. Prerequisite: ART 333

ART 434 Handweaving and Tapestry

Introduction to off-loom weaving including tapestry and pile weave techniques. Fundamentals of basketry, involving coiling, twining and plating. Outside assignments required.

Prerequisite: ART 162

ART 435 Thesis Textile Design I (studio)

Senior-level course. In-depth investigation of the theoretical and pragmatic aspects of the textile design process. A complete design portfolio presentation required for the successful completion of Thesis Textile Design I and II.

Prerequisite: ART 433

ART 436 Thesis Textile Design II (studio)

Senior-level course. Continuation of ART 435. Critical analysis of student's portfolio with emphasis on personal assessment of philosophies and goals.

Prerequisite: ART 435

ART 438 Advanced Jewelry (studio)

The design and fabrication of jewelry using various construction or casting and metals techniques. Emphasis on the development of imaginative design and individual point of view. May be repeated once for credit. Prerequisite: ART 337

ART 439 Thesis Jewelry I (studio)

Senior-level course. The refinement of acquired knowledge in design and the execution of more advanced techniques. A complete portfolio presentation required for successful completion of Thesis Jewelry I and II.

Prerequisite: ART 438

ART 440 Thesis Jewelry II (studio)

Senior-level course. Continuation of ART 439. Critical analysis of student's portfolio with emphasis on personal assessment of philosophies and goals. Prerequisite: ART 439

ART 441 Advanced Sculpture (studio)

Exploratory course in 3-dimensional materials and techniques including welding, casting, plastics and other fabrication techniques. Outside assignments required. May be repeated once for credit. Prerequisite: ART 341

ART 442 Thesis Sculpture I (studio)

Senior-level course. Problems of student's own choice. Possible combination of various media and techniques. A complete portfolio presentation required for successful completion of Thesis Sculpture I and II

Prerequisite: ART 441

Art 443 Thesis Sculpture II (studio)

Senior-level course. Continuation of ART 442. Critical analysis of student's portfolio with emphasis on personal assessment of philosophies and goals.

Prerequisite: ART 442

ART 451 Advanced Printmaking (studio) Continued development of student's selected techniques. Advanced intaglio, lithography, relief, silk screen and experimental techniques. Emphasis on color printing as well as black and white. Other options available, depending on background and interest. Outside assignments required. May be repeated once for credit. Prerequisite: ART 351

ART 452 Thesis Printmaking I (studio)

Senior-level course. An in-depth investigation of theoretical and creative aspects of printmaking as a visual art. A complete portfolio presentation required for successful completion of Thesis Printmaking I and II

Prerequisite: ART 451

Art 453 Thesis Printmaking II (studio) Senior-level course. Continuation of ART 452 Critical analysis of student's portfolio

452. Critical analysis of student's portfolio with emphasis on personal assessment of philosophies and goals.

Prerequisite: ART 452

ART 461 Advanced Ceramics (studio)

Studies in the creative possibilities of clay as a plastic medium. Emphasis on the development of the individual craftsman. Outside assignments required. May be repeated once for credit.

Prerequisite: ART 361

ART 462 Thesis Ceramics I (studio)

Senior-level course. Advanced work in the development of the student's aesthetic and technical skills with experimental projects in glazes, throwing and building techniques. A complete portfolio presentation required for successful completion of Thesis Ceramics I and II.

Prerequisite: ART 461

ART 463 Thesis Ceramics II (studio)

Senior-level course. Continuation of ART 462. Critical analysis of student's portfolio with emphasis on personal assessment of philosophies and goals.

Prerequisite: ART 462

ART 464 Advanced Furniture Design (studio)

A study of the technology of varied materials and the application of those materials to experimental utilitarian design. Creative use of materials and design forms stressed. Outside assignments required. May be repeated once for credit.

Prerequisite: ART 363

ART 465 Thesis Furniture Design 1 (studio)

Senior-level course. An in-depth investigation of the theoretical aspects of the interior and furniture-design process. A complete portfolio presentation required for the successful completion of Thesis Furniture Design I and II.

Prerequisite: ART 464

ART 466 Thesis Furniture Design II (studio)

Senior-level course. Continuation of ART 465. Critical analysis of student's portfolio with emphasis on personal assessment of philosophies and goals.

Prerequisite: ART 465

ART 472 Advanced Photography (studio)

Each student develops his own area of interest through consultation with the instructor. Course allows the student to pursue various aspects of photography as a visual art form in depth. Outside assignments required. May be repeated once for credit.

Prerequisite: ART 371

ART 473 Thesis Photography I (studio)

Senior-level course. In-depth investigation of the theoretical aspects of the photography process within the context of creative visual communications. A complete portfolio presentation required for the successful completion of Thesis Photography I and II.

Prerequisite: ART 472

ART 474 Thesis Photography II (studio)

Senior-level course. Continuation of ART 473. Critical analysis of student's portfolio with emphasis on personal assessment of philosophies and goals.

Prerequisite: ART 473

ART 480 Studio Seminar (studio)

Covers selected topics in the areas of art history, art criticism, art technology and art theory as they pertain to a professional career in studio art.

ART 490 Islamic Art and Architecture (lecture)

An in-depth study of painting, decorative arts and architecture within their cultural contexts in countries whose art forms were influenced by the Muslim religion. Emphasis on Iran. Other countries include Egypt, Spain, Turkey, Iraq, Syria and India, from the founding of Islam in the seventh century through the seventeenth century.

Prerequisite: 3 credits in art history

ART 491 The Age of Neo-Classicism (lecture)

A study of neo-classic and romantic painting, sculpture and architecture from 1750 to 1850, concentrating on France, Germany, Italy, Scandinavia and England. Movements and counter movements, innovation and nostalgia for the past, reforms, overthrow and revival; the concept of romanticism and neo-classicism are shown to be shifting and constantly changing. Prerequisite: 3 credits in art history

ART 493 Masterpieces of the Illuminated Manuscript (lecture)

A study of manuscript illumination from the fifth century through the humanist sixteenth-century manuscripts of Italy. Special emphasis on the relationship of patrons, such as Charlemagne, to their manuscripts as well as to some outstanding cycles of illustrations in the texts of the Apocalypse, Virgil, Dante and Boccaccio.

Prerequisite: 3 credits in art history

ART 494 Byzantine Art (lecture)

A study of architecture, painting and sculpture in the Eastern Mediterranean, the Balkans and Italy from 315 to 1453 A.D. Byzantine art is interpreted as one of the preservers of the Greco-Roman heritage, an expression of a Christian imperial state and a model for Western European art during the middle ages.

ART 499 Independent Study

As approved and to be arranged. 1-3 credits.

Prerequisite: 1 course in art history

Department of Communication

Professor—A. Maltese (chairperson)
Associate Professors—S. Berman, A. Lenrow
Assistant Professors—J. Chamberlain, D.
Peck, D. Evans, F. Gilooley, H. Jackson, M.
Koven, B. Morganstern, S. Shoge
Instructors—M. Daniels, D. Lev

The Department of Communication offers concentrations in interpersonal communication, radio-television, film and journalism.

The interpersonal communication concentration provides courses in the theory and practice of verbal and extraverbal communication in contexts including one-to-one, group, organization and public communication. The purpose is to prepare the student for a variety of career options involving personal skill and knowledge in communication arts.

The radio-television concentration prepares the student for a career in the production, performance and criticism of communication through radio and television media. Students take courses in theory and practice of the mass communication arts to develop understanding and skill in their profession.

The film concentration offers courses in theory, production and analysis of film in its various genres and potential uses, in an effort to contribute to a student's development as a filmmaker.

The journalism concentration offers courses in both print and broadcast media, designed with a two-fold purpose: 1) to prepare students for careers in the field, and 2) to make students more saphisticated readers-listeners-viewers of the news media. While emphasis is placed on writing, students learn all phases of the newsgathering and reporting process.

A variety of professional opportunities is open to communication majors. These include careers in journalism, including newspapers, magazines, radio news and television news; radio television production, including announcing and station management; films, including filmmaking, editing and criticism; and a variety of business, government, public and educational occupations such as public relations, personnel work, sales and supervision training, etc. The major also provides an excellent undergraduate background for students intending to pursue advanced degrees in law, business and areas of public service, government, or education.

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COMN	Л 444	Mass Communication Colloquium in Communication	3 _.
COM	<i>I</i> 220	f the following: Radio and Television The Press in a Free	3
COMN	1 250 1 260	Society Film as a Medium Journalism Oral Interpretation	33.3333
COMN		Dynamics of Communication on	3 21
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		Oral Interpretation Foundations of Lan- guage	3
COMN	A 266	Dynamics of Communications	3
or COMN	A 363	Public Speaking	3.
THEA		Acting: Principles of Characterization	3
THEA PATH	162 364	Stagecraft I Voice and Speech Pro- duction	3
One of THEA THEA THEA	of the 1 210 260 310	hree following theatre cours Playscripts I Playscripts II History of Theatre	3
PSY HSC TED	110 120 310	General Psychology Current Health Problems Educational Psychology: Adaptations and In- terventions in the	3 3 3 3
SED	340	Classroom Exploring the Teaching Field (A pre-student	1
SED	302	teaching requirement) Discovering Your Teaching Self (K-12)	3
rla Rla	329 330	Foundations of Reading Reading Strategies for the Content Areas	3
SED	3Ö1	Curriculum and Its Im-	3
SED	330	plementation Implementing Your Teaching Major (K-12)	3
EDUC	403	Culminating Field Ex- perience (formerly Stu-	8
SED	404	dent Teaching) Instructional Seminar for Student Teaching	1
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SED SED	381 391	Educational Sociology Challenge, Change and Commitment in	3
SED	432	Education Human Adaptations and	. 3
URED	482	Alternatives in the School The Inner City Child and His Environment	3

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LMS	323	Modern Educational Media	3 /
SED	329	The Competencies of Open Education	. 3
SÉD	342	Ecology for Educators	[*] 3
SED	380	Insights and Outlooks in Education	`3 '
SED	.428	Simulated Laboratory Experiences in Secondary Schools	3
SED .	430,	Teaching Literature to Young Adults: Grades 5-12	3
SED	480	Field Research in Teacher Education	3

*Communication, majors interested in teaching are advised, for placement purposes, to take a minor in English, plus a course in linguistics.

Courses

Unless otherwise noted, all courses are for 3 credits

COMM 110 Communication in Action

A study of oral communication as an interpersonal and dynamic process. An analysis of each student's oral abilities. Students engage in communication experiences designed to develop understanding of and skill in interpersonal communication.

COMM 120 Mass Communication

The institutions, history and technology of the mass media are examined as communication systems. Newspapers, magazines, film and broadcasting media are studied in terms of social and personal impact. Contemporary media issues, policies and ethics are discussed.

COMM 220 Radio and Television

An introductory course tracing the historical development and implications of the media. The student is introduced to programming materials, criticisms, standards, skills and production methods.

Prerequisite: COMM 120

COMM 221 Introduction to Communication Theory

Acquaints the student with contemporary theory and research in the field of communication. Motivation, interaction and effects of communication are examined in a range of contexts, including within and between persons, small and large groups, organizations, cultures and mass communications systems.

COMM 222 The Press in a Free Society

A study of the relationship between the news media and society in the United States, with emphasis on the issues and principles that unite and divide the two. Press criticism is an important part of content.

Prerequisite: COMM 120

COMM 225 Audio Production

Examines the audio aesthetics of sound production. Analyzes the creative responsibilities involved in the elements of sound production. Students are trained in the use of studio and remote audio equipment. Practice in writing, producing, directing and performing in audio productions.

COMM 230 Filmmaking I

A study of film-making techniques from the writing of the script to the final product. Technical and theoretical aspects of filmmaking are covered in a workshop where students learn through actual production. Work includes writing, directing, cinematography, sound and editing. Aesthetics and evaluation of films are introduced through the viewing and discussion of certain classical examples.

COMM 234 Film as a Medium

The study of film as a unique audiovisual form of expression. The effect of film as a medium in mass communication. The creative process of film-making and its technical methods. A survey of the use of film in different media: documentary films for television, investigative films, film and the arts, animation, experimental films, electronic films, teaching films, training films, science films, the "commercials," "industrials," promotional films, television series and theatrical features. Film viewing and discussions.

Prerequisite: COMM 120

COMM 250 Journalism

Practical experience in gathering news and writing the basic journalistic forms. Includes the straight news story and various types of features. Students undertake reporting assignments designed to develop skills in interviewing, observation and writing, and receive individual evaluation of their work.

Prerequisites: COMM 120, ENG 110

COMM 260 Oral Interpretation

Students learn to communicate the content, form and mood of works of literature through the medium of oral reading. Includes expository, narrative and dramatic prose and narrative, dramatic and lyric poetry.

Prerequisite: COMM 100 or permission of the instructor

COMM 265 Foundations of Language

Presents an overview of the nature and function of language. Stresses the aspects of language relating to the phonologic, semantic and linguistic structures.

COMM 266 Dynamics of Communication

A study of the meaning of verbal and nonverbal languages and the influence of these languages as tools for communica-

Prerequisite: COMM 110

COMM 321 Announcing

Introduction to the responsibilities and skills required of the individual performer in the preparation, announcing and narration of the various types of non-dramatic material for television, radio and film. Prerequisite: COMM 260

COMM 322 Advanced Announcing

An in-depth treatment of the field. Heavy emphasis on narration for television and film. Extended work in the production of news and disc jockey programs, using broadcast-level facilities. Prerequisite: COMM 321

COMM 323 Television Production

Practice in writing, producing, directing, performing and crewing television productions and videotape materials. Provides the opportunity to study and practice broadcast program creation under laboratory circumstances which simulate the conditions of on-the-air television broad-

Prerequisite: COMM 225

COMM 324 Writing for Radio and

The technique of writing dramatic and non-dramatic material for radio and television. Theory, practice and analysis of broadcast material, advertising and continuity are emphasized. Designed to develop skill in expository, narrative and persuasive writing as it relates to broadcasting. Prerequisite: ENG 110

COMM 326 Advanced Television Production

Provides an opportunity to work within standards and operating procedures similar to those utilized by commercial and educational television. Includes practice and projects in such critical areas as timing, electronic editing, minor equipment maintenance and color programming. Prerequisite: COMM 323

COMM 330 Television Internship

Students are assigned to an off-campus facility for practical hands-on experience. Professional situations in broadcast and non-broadcast organizations are utilized. Prerequisite: Permission of the instructor

COMM 331 Filmmaking II

The theory and technique of motion picture production with lip-sync-sound in Super 8 and 16 mm film. Different approaches in scriptwriting, directing non-actors, types of lighting techniques, lighting exercises, cinematography, lenses and perspective, composition, academic editing, editing in camera, editing on the bench. Practical training in budgeting and shooting with Super 8 and 16 mm film with double system

Prerequisite: COMM 230

COMM 332 Documentary Film Production

An intensive laboratory course in film production. Covers documentary techniques: research, scheme of project, storyline, plan of operation, choice of locations and people to interview. Covers problems and concerns in selection of equipment, crew, lighting on location, screening, narration and editing. Special emphasis on audio and optical effects.

Prerequisite: COMM 331

COMM 333 Film Animation I

An introductory study of the history, theory and technique of animated film production. Emphasis is on the process of the production, rather than on a final product.

COMM 334 Film Animation II

An advanced study of the techniques of animated film production. Each student completes an animated film.

Prerequisite: COMM 333

COMM 348 Public Relations

Defines the functions of public relations and distinguishes it from regular journalism. While exploring the appropriate functions and outlets for public relations activity, the course also investigates the ethics of the function and develops an understanding of the basic tools used in handling public relations for various types of situations.

COMM 349 Radio News

Instruction and practical experience in the basic techniques of radio journalism, including news writing, reporting, producing newscasts and writing copy for taped segments of the newscast. Analysis of radio news broadcasts and discussion of the major issues involved in radio journalism. Prerequisite: COMM 250

COMM 350 Television News

Instruction and practical experience in the basic techniques of television journalism, including television news writing, writing for film and videotape, reporting for television and producing television news programs. Analysis of television news broadcasts and discussion of the major issues involved in television journalism.

Prerequisites: COMM 250, 323

COMM 351 Advanced Reporting

Guides students in developing in-depth news and feature articles. Evaluation of individual's work. Matters of current concern to the news media are discussed. Prerequisite: COMM 250

COMM 352 Broadcast Advertising

Introduces the student to the development and philosophy of broadcast advertising. Theory and practice of commercial advertising techniques are covered. Emphasizes the nature of the creative process and the relationship existing among client, broadcaster and the government.

Prerequisites: ENG 110, COMM 220

COMM 353 Advanced Audio Production Students further their ability to write, produce, direct and perform in audio production projects. Introduction to various formats, creation of sound effects, musical background and direction is emphasized.

COMM 361 Successful Business and **Professional Communication**

Through the study of communication theory, as it relates to business and the professions, and through practice simulations, the student acquires a knowledge of those communicative and motivational skills essential for success in business and professional life.

Prerequisite: COMM 260 or permission of the instructor

COMM 363 Public Speaking

Students learn the theory and skills of preparing and presenting public speeches. Emphasis is on practice and criticism of classroom speaking experiences.

COMM 365 Introduction to Rhetoric

An examination of the development of persuasion. Emphasizes classical and contemporary theories of rhetoric which are correlated to contemporary standards and practice in current public address.

COMM 421 Broadcast Management

An appraisal of management problems in commercial broadcasting for the advanced student. Includes sales and profit, personnel, programming, audience, governmental regulations and technical fac-

Prerequisite: COMM 220

COMM 423 International Broadcasting

A comparative study of the national and international broadcasting systems of the world. Regional broadcasting systems and the structure and operations of present communications satellite systems.

Prerequisite: COMM 220

COMM 424 Radio Production Workshop

An advanced course in audio production designed to augment the student's skills and techniques in radio production. Direction and production of various commercial and non-commercial spots, news documentary, discussion and music formats are produced for airing on campus radio and commercial and non-commercial public radio stations.

COMM 425 Television Workshop

An extension of COMM 326. Students produce, write and direct video projects dealing with instructional material, news and public affairs and entertainment programming. Projects must be programmable for campus use, cable television, public broadcasting and other open circuit channels.

Prerequisite: COMM 326

COMM 426 EFP and Video Editing

An advanced course in electronic field production and video editing. In field situations, students create, produce, videotape and edit video documentaries, public service announcements and instructional projects for cable and campus use. Extensive use of portable video cameras and 3/4" editing systems is required.

COMM 431 Screenwriting

Provides opportunities for original student work or adaptations in screenwriting. Concerned with choice of subject, story, treatment and production requirements. News specials and documentary styles are covered. Interviews, continuity and commercial copywriting are handled with emphasis on storyboard techniques. Viewing and analysis of professional scripts are included.

Prerequisite: ENG 110

COMM 432 Dramatic Film Production

Includes writing the storyline from an original subject or adaption, film treatment, shooting, script, casting, selection of crew and equipment, function of the dialogue director, improvisation cinema, verité style, the function of the art director, lighting, film directing, film acting and editing a dramatic film.

Prerequisite: COMM 331

COMM 434 Current Cinema

Introduces the aesthetic and technical appreciation of contemporary motion pictures. Concentrates on content, production development, stylistic analysis and the development of critical analysis as applied to current films.

Prerequisite: COMM 234

COMM 437 Film Editing

The study of the art and technique of editing a sound film in Super-8 and 16 mm. The continuity of a story on film. Cinematic time. The visual rhythm within a sequence. Visual and audio relationships. Film structure. Montage. The technique of editing from the screening of the "dailies" to the first "composite answer print" of the finished product.

Prerequisite: COMM 331

COMM 444 Colloquium in Communication

An opportunity for advanced study-and discussion of issues and questions, together with the opportunity to study and analyze the research literature available in various areas of communication. Each student chooses an area of communication in which to plan and carry out a research project.

For senior commmunication majors only.

COMM 451 Free-Lance Writing (Non-Fiction)

Instruction and supervised practice in nonfiction writing for today's periodical. Students learn how to analyze market needs, develop ideas suitable for publication, prepare manuscripts and market what's been written.

Prerequisite: COMM 250

COMM 452 Advanced Broadcast Journalism

A course designed for graduating seniors, aimed at preparing them for work in broadcast news in either radio or television. The goal is to polish skills developed in previous journalism courses to a level at or approaching that required to obtain entrylevel jobs in broadcast journalism.

COMM 454 News Editing

Prepares students to function as copy editors in the news field. Supervised practice in editing news copy and writing headlines. Use of visual materials and layout of pages. Analysis of various U.S. newspapers.

Prerequisite: COMM 250

COMM 455 Electronic News Gathering

The investigation, preparation and production of news stories for broadcast. Emphasis on the independent preparation of copy, individual selection of story content and production of video/audio tape for journalistic enterprise. Students refine previously-developed skills in writing and editing for broadcast. Individual and group-produced news stories in the field receive feedback from instructor and peers. Programming materials are developed and produced for use on local outlets.

COMM 459 Journalism Field Studies

Practical application of what is learned in the classroom. Students work at news or public relations jobs on or off campus. By permission only, with preference given to on-going work.

COMM 460 Reporting Public AffairsThe nature and law of public affairs on federal, state, and local levels. The rights of working reporters and the public to matters of legitimate record are outlined, as are the practical steps necessary to gather this information.

COMM 463 Group Discussion

Theory and practice in various types of discussion situations. Consideration of the place of discussion in our democratic society. Integration of traditional principles with recently developed concepts and approaches.

Prerequisite: COMM 110 or permission of the instructor

COMM 464 Debate

The application of the principles of argumentation through debating a selected topic in public and intercollegiate debate formats. Stresses both theory and performance in oral advocacy.

Prerequisite: COMM 110 or permission of the instructor

COMM 499 Independent Study

As approved and to be arranged through the student's department advisor. 1-3 credits

Department of Music

Professors—H. Aitken, J. Anderson, R. DesRoches, D. Fornuto, D. Heier, M. Krivin, R. Latherow (chairperson), W. Woodworth Associate Professors—R. Foley, N. Guptill, G. Kirkpatrick, J. Kresky, M. O'Connor, J. Weidensaul

Assisfant Professors—G. Bouchard, P. Finney, D. Garcia, V. Hill, R. Reid

The Music Department offers three degrees: the bachelor of music in jazz studies and performance, the bachelor of arts in music and the bachelor of science in music education. The latter fulfills certification requirements for public school music teaching in New Jersey, grades K-12, and is equivalent to bachelor of music programs elsewhere. These programs are structured to reflect the multifaceted demands on today's and tomorrow's musicians.

All degree programs contain the best of both musical worlds: the flexible, innovative ideas in contemporary music combined with the finest in the traditional. As a result, students pursue a program of study eminently suited to preparing them for a professional life in music.

Auditions

A performance audition is required of all applicants to the B.A. in applied music, the B.M. in jazz studies and performance and the B.S. in music education. The evaluation by the audition jury consists of a personal interview and examinations in theory, keyboard and aural skills.

Entrance Requirements: Applied Music

Piano: An invention by Bach, a first movement of a sonata by Haydn, Mozart, or Beethoven (except op. 27 no. 2 in C sharpminor), a work by a romantic or contemporary composer. At least one selection must be played from memory. Major and minor scales and arpeggios included.

Organ: Student must have a piano background of Bach two-part inventions and early Mozart or Beethoven sonatas. It is desirable for the student to play a composition of Bach, a romantic work and a modern work.

Voice: Demonstration of vocal potential. One art song in any language, memorized. A second song is strongly recommended.

Strings: A sonata or concert piece of moderate difficulty. Major and minor scales and a chromatic scale covering the complete range.

Woodwinds: A sonata movement or concert piece of moderate difficulty. Major and minor scales and a chromatic scale covering the complete range.

Brass: A movement of a sonata or concerto of moderate difficulty. Major, minor and chromatic scales, articulated and slurred.

Percussion: Demonstration of snare drum rudiments. A basic technical knowledge of the mallet instruments. Elementary exercises for timpani.

Guitar: Segovia scales, major and minor, one étude by either Sor (Segovia ED), Carcassi, or Aguado. Two concert pieces of the student's own choice from either "pre"-Baroque (ex. De Visee, Sanz, Milan, etc.), Baroque (Bach, Weiss, etc.), or Romantic Spanish (Tarrega, ex. Adelita; Liobet, ex. "El Testament D'Amelia").

Note: Students with previous college-level training may receive "credit by examination" and advanced placement in any music class. For example, most keyboard performance majors need not take four semesters of Functional Class Piano.

Entrance Requirements: Jazz (for freshmen)

Piano and Guitar

Major, minor and chromatic scales, 4 octaves (guitar, 2 octaves).

Dorian, Mixolydian, Lydian modes.

Basic 6th and 7th chords: Major and minor 6th and 7th; dom. 7th; min. 7th b5; min. with maj. 7th; half dim. 7th; dim 7th; aug. 7th. Sight read lead sheets.

Several jazz standards with improvisation (one slow-tempo ballad and one up-tune). Blues—Several keys (various tempos).

Single Line Instruments ..

Major, minor and chromatic scales. Dorian, Mixolydian, Lydian modes.

Basic 6th and 7th chords (arpeggiated): Major and minor 6th and 7th; dom. 7th; min. 7th b5; min. with maj. 7th; half dim. 7th; dim. 7th; aug. 7th.

Sight read ensemble parts.

Several jazz or pop standards with improvisation (one slow-tempo ballad and one up-tune).

Blues - Several keys (various tempos).

Vocal

Several pop/jazz standards (one slow-tempo ballad and one up-tune). Sight reading. Ear training.

Drums

Several jazz standards with improvisation. (Play through form improvise chorus). Play time—jazz waltz, bossa, swing, etc. Break in various meters. Sight read ensemble parts.

Ear Training (all applicants): Aural identification of intervals, triads and basic 7th chord types (M7, Min. 7, dom. 7th, min. 7th b5, min. with maj. 7th; half dim. 7th; dim. 7th; aug. 7th).

Major Programs

The B.A. degree is designed for students who desire a liberal education with emphasis on music while obtaining a diversified education in the liberal arts. A student chooses one of two concentrations:

1) applied music, 2) musical studies. Neither of these concentrations certifies the student to teach music in the public schools of New Jersey. Students interested in traditional classical performance should choose the applied music concentration and students who desire a less specialized musical education should choose the musical studies concentration.

APPLIED MUSIC (B.A.)				
REQU	IREME	NTS 48 cred	ztik	
Requi	red 'C	courses 32 cred	atik	
MUS	160	Freshman Compre-	3	
	٠.	hensive Musicianship I		
MUS	161 [.]	Freshman Compre-	3	
		hensive Musicianship II		
MUS.	162.	Applied Music Major	2	
MUS	163	Applied Music Major	2 2 1 1	
MUS	180	Freshman Ear Training I	1	
MUS	181	Freshman Ear Training II		
MUS	234	Sophomore Recital Per-	0	
		formance		
MUS	260	Sophomore Compre-	3	
		hensive Musicianship I		
MUS	261	Sophomore Compre-	3	
		hensive Musicianship II		
MUS	262	Applied Music Major	2	
MUS	263	Applied Music Major	2 2 1	
MUS	280	Sophomore Ear Training I		
MUS	281	Sophomore Ear Training II	1	
MUS	310	Junior Recital Per-	0	
		formance I		
MUS	311	Junior Recital Per-	0	
		formance II		
MUS	362	Applied Music Major	2	
MUS	363	Applied Music Major	2	
MUS	462	Applied Music Major	2 2 2 2	
MUS	463	Applied Music Major		
MUS	464	Senior Recital	0	
		Performance (two		
		semesters)		

Note: Voice majors must attend a semesters of vocal seminar.

Direct	ed Ele	ectives 16 cred	stik	
MUS	164	Functional Class Piano I	1	
MÙS	165	Functional Class Piano II	1	
MUS	207	Music History and Liter-	3	
		ature I		
MUS	208	Music History and Liter-	3	
		ature II		
MUS	264	Functional Class Piano III	1	
MUS	265	Functional Class Piano IV	1	
MUS	304	Studies in Music	3	
MUS	401	Twentieth Century Music I	3	
Note:	An er	ntrance audition is required	for	
admission to the applied music major.				

MUSICAL STUDIES (B.A.) **REQUIREMENTS** 32 credits **Required Courses** 20 credits MUS 160 Freshman Comprehensive Musicianship I MUS . 161 Freshman Comprehensive Musicianship II Functional Class Piano I MUS 164 MUS 165 Functional Class Piano II MUS 180 Freshman Ear Training I MUS 181 Freshman Ear Training II MUS 260 Sophomore Compre-3 hensive Musicianship I MUS 261 Sophomore Compre-3 hensive Musicianship II MUS 264 Functional Class Piano III MUS 265 Functional Class Piano IV MUS 280 Sophomore Ear Training I 281 MUS Sophomore Ear Training II

Directed E		MUSIC EDUCATION (B.S.)	N	ŅUS 311	Junior Recital Per-	0
MUS 207	Music History and Liter- 3 ature I	REQUIREMENTS/N.J. PUBLIC SCHOOLS, K-12 MUSIC CERTIFICATION	N	∕US 362	formance II Applied Music Major	2
MUS 208	Music History and Liter- 3	Two concentrations are offered in this pro)- N	MUS 363	Applied Music Major	. 2
MUS 304	ature II Studies in Music 3	gram. Students admitted as performanc majors in keyboard, guitar or voice ordinar	٠.	MUS 462 MUS 464	Applied Music Major Senior Recital Perfor-	2 0
MUS 401	Twentieth Century Music I 3	ly choose the concentration in preparatio	1-		mance	-
JAZZ STUDII	ES AND	for teaching vocal/general music in grade		Note: Six se	emeşters of vocal seminar	are
PERFORMA	NCE (B.M.)	K-12.			ed of voice majors. Note:	
REQUIREME		Students are admitted to the music educa- tion programs on a probationary status for			itted as performance majo orchestral instruments r	
MUS 160	Freshman Compre- 3 hensive Musicianship I	the freshman and sophomore years. Fu	ıll c	choose the	concentration in instrume	ntal
MUS 161	Freshman Compre- 3	status as a music education major is de			s concentration provides	
	prehensive Musicianship II	termined prior to the beginning of the jur ior year.			on in preparation for teacl al music, grades K-12.	ning
MUS 164 MUS 165	Functional Class Piano I† 1 Functional Class Piano II† 1	Note: Performance majors in keyboard				
MUS 180	•	guitar who want an instrumental concer			Y EDUCATION (K-12)	
MUS 181	Freshman Ear Training II 1	tration must also meet the entrance aud tion requirements on a band or orchestre	1	REQUIREME		
MUS 190 MUS 191	Applied Music Major 4	instrument outlined on p. 26. Performance		PSY 110 HSC 120	General Psychology Current Health Issues	3 3
MUS 191 MUS 205	Applied Music Major 4 Applied Music Minor* 1	majors in Keyboard or guitar must meet th	e F	PSY 210	Developmental Psy-	3
MUS 206	Applied Music Minor* 1	entrance requirements for a voice mind			chology	
MUS 220	Jazz History 3	i.e. demonstrate voice potential as a pro- pective teacher of choral/vocal music i		SED 302	Discovering Your Teaching Self	3
MUS 234 MUS 236	Sophomore Recital 0 Western Art Music 3	the public schools.		SED 324	Music Education	3
14100 200	Jazz Performance Groups 8	VOCAL CONCENTRATION 61 credi	ts F	RLA 329	Foundations of Reading	3
MUS 237	Jazz Improvisation 1 2	MUS 101 Flute and Clarinet	1	RLA 330	Reading Strategies for	3
MUS 238 MUS 255	Jazz Improvisation II 2 Jazz Harmony 3	MUS 103 Trumpet	1 ,	SED 340	the Content Areas Exploring the Teaching	1
MUS 260	Sophomore Compre- 3	MUS 105 Violin	1	0.0	Field (A pre-student	
	hensive Musicianship I	MUS 107 Guitar MUS 108 Percussion	1 -	DUO 400	teaching requirement)	•
MUS 261	Sophomore Compre- 3		3 E	DUC 403	Culminating Field Ex- perience (formerly Stu-	. 8
MUS 268	hensive Musicianship II Functional Class Jazz 1	hensive Musicianship I MUS 161 Freshman Compre-	3		dent Teaching)	
	Piano I	MUS 161 Freshman Compre- hensive Musicanship II	3 5	SED 404	Instructional Seminar for	1
MUS 269	Functional Class Jazz 1 Piano II	MUS 162 Applied Music Major	2 _F	ASE 406	Student Teaching Music Education in the	3
MUS 280	Sophomore Ear Training 1 1	MUS 163 Applied Music Major	2	, 102	Elementary School	Ū
MUS 281	Sophomore Ear Training II 1	MUS 164 Functional Class Piano I MUS 165 Functional Class Piano II	1		ourse from the human relati	ons
MUS 290	Applied Music Major 4	MUS 166 Voice Class I (not re-	4	area: SED 381	Educational Sociology	3
MUS 291 MUS 305	Applied Music Major 4 Applied Music Minor* 1	quired of voice majors)	9	SED 391	Challenge, Change and	3
MUS 306	Applied Music Minor* 1	MUS 167 Voice Class II (not required of voice majors)	1		Commitment, in Educa-	
MUS 310	Junior Recital 0	MUS . 180 Freshman Ear Training I	1 .	NED 430	tion	2
MUS 311	Performance I Junior Recital 0	MUS 181 Freshman Ear Training II	1	SED 432	Human Adaptations and Alternatives in the School	3
1000 011	Performance II	MUS 205 Applied Music Minor MUS 206 Applied Music Minor	1 .	JRED 482	The Inner City Child and	3
MUS 322	Jazz Improvisation III 2	MUS 200 Applied Music Million MUS 207 Music History and Liter-	3 -	, N	His Environment	. t
MUS 323 MUS 368	Jazz Improvisation IV 2 Functional Class Jazz 1	ature I	(ration are	ourse from the professional p	rep-
1003 300	Piano III .	· · · · · · · · · · · · · · · · · · ·	-4	SED 329	The Competencies of	3
MUS 369	Functional Class Jazz 1	ature II MUS 234 Sophomore Recital Per-	0 0	NED 0.40	Open Education	•
MILIC 200	Piano IV Applied Music Major 4	formance	9	SED 342 SED 380	Ecology for Educators Insights and Outlooks in	3 3
MUS 390 MUS 391	Applied Music Major 4 Applied Music Major 4	•	3	000	Education	•
MUS 464	Senior Recital Per- 0	hensive Musicianship I MUS 261 Sophomore Compre-	3	SED 428	Simulated Laboratory Ex-	3
MUC 470	formance	hensive Musicianship II	•		periences in Secondary Schools	
MUS 470 MUS 471	Jazz Arranging 3 Advanced Jazz 3		2 s	SED 430	Teaching Literature to	3
11100 471	Arranging		2 1		Young Adults: Grades	
MUS 490	Applied Music Major 4	Advanced (or MUS 264)		SED 480	5-12 Field Research Studies in	3
MUS 491 MUS 495	Applied Music Major 4 Jazz/Pop Style and 3	MUS 267 Functional Class Piano-	1	SED 480	Teacher Education	3
14100 470	Repertoire	. Advanced (or MUS 265) MUS 280 Sophomore Ear Training I	1 L	MS 323	Modern Educational	3
*Vocalists and 306 for MUS 32	percussionists substitute MUS 205, 206, 305,	MUS 281 Sophomore Ear Training II	1		Media .	
	ass Piano courses not required for pianists.	MUS 301 Form and Analysis	3		•	
	ussionists substitute 8 semesters	MUS 302 Arranging MUS 305 Applied Music Minor	3 1			
	section and/or performance improvisation. Functional Class	MUS 306 Applied Music Minor	ί		•	
	required if piano is principal	MUS 307 Basic Conducting	2		•	
instrument.	Jazz vocal majors substitute pi-		2 0	•		
ano or gui	tar minor for improvisation.	formance I	-	•		

	UMENI CENTR		dits
MUS	101	Flute and Clarinet	1
MUS	102	Double Reeds	1
MUS	103	Trumpet	1
MUS	103	Low Brass	1
		Violin	1
MUS	105	–	-
MUS	106	Low Strings	1
MUS	107	Guitar	1
MUS	108	Percussion	1
MUS	160	Freshman Compre-	3
		hensive Musicianship I	
MUS	161	Freshman Compre-	3
		hensive Musicianship II	
MUS	162	Applied Music Major	2
MUS	163	Applied Music Major	2
MUS	164	Functional Class Piano I	1
MUS	165	Functional Class Piano II	1
MUS	166	Voice Class I	1
MUS	167	Voice Class II	1
MUS	180	Freshman Ear Training I	1
MUS	181	Freshman Ear Training II	1
MUS	207	Music History and Liter-	3
10103	207	•	3
MUS	208	ature I	3
MOS	206	Music History and Liter-	3
MUS	234	ature II Sophomore Recital Per-	Ω
10102	234	formance	U
MUS	260	Sophomore Compre-	3
10100	200	hensive Musicianship I	J
MUS	261	Sophomore Compre-	· 3
10103	201	hensive Musicianship	3
N ALIC	040	•	0
MUS	262	Applied Music Major	2
MUS	263	Applied Music Major	2
MUS	264	Functional Class Piano III	1
MUS	265	Functional Class Piano IV	1
MUS	280	Sophomore Ear Training I	1
MUS	281	Sophomore Ear Training II	1
MUS	301	Form and Analysis	1 3 2 3 0
MUS	302	Arranging	3
MUS	307	Basic Conducting	2
MUS	309	Instrumental Conducting	3
MUS	310	Junior Recital Per-	0
		formance I	
MUS	311	Junior Recital Per-	0
		formance II	
MUS	362	Applied Music Major	2
MUS	363	Applied Music Major	2
MUS	462	Applied Music Major	2
MUS	464	Senior Recital Per-	2 2 2 0
14100	707	formance	9

SECONDARY EDUCATION (K-12) REQUIREMENTS 40 credits

See secondary education (K-12) requirements under Vocal Concentration on p. 27.

MINOR REQUIREMENTS 18 credi			
MUS	160-161	Freshman Com- prehensive Musi- cianship I and II	
MUS	164-165	Functional Class Piano (2 semesters)	2
MUS	180-181	Freshman, Ear Training I and II	2
MUS	207-208	Music History	6

Performance Groups (2 semesters)

Courses

Unless otherwise noted, all courses are for 3 credits.

Performing Groups

A placement audition and the permission of the conductor required. General education credit may be given to non-majors for participation in these groups.

partic	cipatio	n in these groups.
MUS	200	Concert Choir
MUS	202	College Chorus (no
		audition)
MUS	203	Chamber Singers
MUS	211	Concert Band
MUS		Preparatory Band
MUS	214	Brass Ensemble
MUS		Brass Quintet (trumpet)
MUS	216	Woodwind Ensemble— Clarinet
MUS	217	Woodwind Ensemble—
		Saxophone
MUS		Woodwind Quintet
MUS		Percussion Ensemble
MUS	221	WPC—NJ Percussion En-
N 41 10	000	emble
MUS	222	Jazz Ensemble
MUS	223	Chamber Jazz Ensemble
N AL IC	004	(multiple sections)
MUS	224	Jazz Lab Ensemble I (multiple sections)
MUS	225	Jazz Rhythm Section
10103	225	(multiple sections)
MUS	226	Jazz Lab Ensemble II
MUS		Trombone Ensemble
MUS	230	Classical Guitar En-
10103	200	semble
MUS	231	Twentieth Century
		Chamber Ensemble
MUS	233	Jazz Vocal Lab
MUS	235.	Latin Jazz Ensemble
MUS	239	Jazz Studio Singers
MUS	240	New Jazz Ensemble

Instrumental Classes

1 credit each

Class instruction in basic performance skills on standard instruments. Students proven proficient on an instrument, upon examination, are excused from that class. Classes meet two hours weekly for one semester and are open to music education students only.

MUS	101	Flute and Clarin	
MUS	102	Double Reeds	
MUS	103	Trumpet	
MUS	104	Low Brass	
MUS	105	Violin	
MUS	106^	Low Strings	
MUS	107	Guitar	
MUS	108	Percussion	
1 credit each			

MUS 110 Basic Music Studies

2

An introduction to notation, harmony, score reading, analysis, sight-singing and dictation. For non-music majors.

MUS 120 Music Appreciation

Development of perceptive listening, concentrating on music from the baroque, classic and romantic periods.

MUS 130 Symphonic Music

A survey of representative European and American symphonies, tone poems and concertos from the eighteenth century to the present.

MUS 140 Opéra

A survey of representative European and American symphonies, tone poems and concertos from the eighteenth century to the present.

MUS 160-161 Freshman Comprehensive Musicianship I and II

The student is prepared to function artistically and intelligently in a variety of musical situations. Focuses on musical literature of all cultures, styles and historical periods; used to develop a conceptual understanding of rhythm, melody, harmony, texture, timbre and form and their interrelationships as they form the basis for listening, performing and creating. Includes contrapuntal textures in two and three parts, compositional devices, diatonic harmony in three and four parts, secondary dominants and diminished seventh chords, modulation, analysis and composition of music in the smaller contrapuntal and homophonic forms for various vocal and instrumental combinations. 3 credits each

MUS 162, 163, 262, 263, 362, 363, 462, 463 Applied Music Major

Individual instruction in piano, organ, voice, guitar, percussion, band and orchestral instruments.

2 credits each

MUS 164-165 Functional Class Piano I and II

A beginning course for music majors who do not have keyboard facility. Basic technique is emphasized along with a knowledge of chords. Skills of transposition, improvisation, score reading and simple accompanying are begun at a simple level. 1 credit each

MUS 166-167 Voice Class I and II

Vocal fundamentals and practical application in developing and preserving the singing voice. Breath control, resonance, range, diction, vowel formation as related to correct tone production. Methods and materials for teaching. Not open to voice majors.

1 credit each

MUS 180-181 Freshman Ear Training I and II

An integrated course that includes the development of sight-singing, dictation and rhythmic skills. Alto and teno clefs are introduced during the freshman year.

1 credit each

MUS 190, 191, 290, 291, 390, 391, 490, 491 Applied Music Major (Jazz)

Individual instruction in piano, organ, voice, guitar, percussion, band and orchestral instruments.

4 credits each

MUS 205, 206, 305, 306 Applied Music Minor

Individual instruction in piano and voice for music education and selected theatre majors.

1 credit each

MUS 207-208 Music History and Literature I and II

The growth of Western music from its beginnings through the first half of the twentieth century.

Prerequisite: MUS 161 3 credits each

MUS 220 Jazz History

The evolution of jazz from its origins to the present. Emphasis on the various periods and styles of jazz, as well as influential soloists, groups and composers. Live performances in class. For music majors only.

MUS 234 Sophomore Recital Performance Taken with MUS 263 or MUS 291.

0 credits

MUS 236 Western Art Music

Analysis and discussion of Western art music from its origins in ancient Greece up to and including contemporary styles. Emphasis on baroque through twentieth century music. Serves the needs of jazz majors and liberal studies students with some prior background, offering both an educational experience beyond what can be taught in MUS 120.

MUS 237 Jazz Improvisation I

A workshop course aimed at helping the student evolve an individual style of improvisation. Emphasis on chord scales, interpretation of chord symbols, notation, transposition and common jazz figures and patterns. Ear training and analysis of improvised solos.

Prerequisite: MUS 161 and/or permission of the instructor

MUS 238 Jazz Improvisation II

Expansion of concepts and principles introduced in Improvisation I. Emphasis on chord substitution, melodic development, memorization, student jazz compositions and ear training and analysis.

Prerequisites: MUS 161, 320 and/or permission of the instructor

MUS 245 Music Management Internship I

Designed to provide work experience for students in the music management program. Interns are assigned to an appropriate work experience.

MUS 260-261 Sophomore Comprehensive Musicianship I and II

The work of the sophomore year continues the comprehensive development of musicianship by the study of literature in the larger contrapuntal and homophonic forms. Specific areas include chromatic harmony, contemporary harmonic and compositional techniques. Considerable analysis of romantic and twentieth century literature, as well as correlated written projects form the nucleus of this course. 3 credits each

MUS 264-265 Functional Class Piano III and IV

This is the second year of the beginning piano course for music majors who do not have keyboard facility and should not be chosen by keyboard majors. The work of this course continues the development of the skills begun in MUS 164-165 with more advanced work in technique, transposition, improvisation, score reading and accompanying and harmonization styles. Music education students must pass a proficiency test upon completion of MUS 265.

MUS 266-267 Functional Class Piano—Advanced

This special section is for keyboard majors and qualified vocal and instrumental majors. The course assumes that the student already possesses considerable keyboard facility. The course is designed to develop the skills needed to utilize the piano in school positions, sacred music posts and situations other than the solo recital. The skills to be developed include transposition, improvisation, score reading, a thorough working knowledge of chords and their application to creating accompaniments and arrangements from "lead sheets."

MUS 268-269, 368-369 Functional Class Jazz Piano I, II, III, IV

Students in the jazz studies program who are not jazz piano majors choose these sections for their second year of the Functional Class Piano. These courses continue to develop the skills begun in MUS 164-165 with special emphasis on jazz improvisation, accompanying and harmonization styles.

1 credit each

MUS 280-281 Sophomore Ear Training I and II

More advanced work in sight singing, dictation and rhythmic skills with special emphasis on the techniques required to perform twentieth century music.

1 credit each

MUS 301 Form and Analysis

Intensive formal, harmonic, rhythmic, melodic and textural analysis of compositions from the Renaissance to the present. Traditional terminology is covered, but the emphasis is on empirical analysis. Prerequisite: MUS 261

MUS 302 Arranging

A practical approach to arranging for choral and instrumental groups. Deals with the problems teachers encounter as directors of musical organizations. Voice leading, part distribution, range, transpositions and musical styles are studied.

Prerequisite: MUS 261

MUS 304 Studies in Music

An introduction to musicology in a very broad sense of the term. Readings, library projects and research papers are assigned in the history and sociology of music, music theory, ethnomusicology, musical acoustics and the aesthetics of music. Basically interdisciplinary, the course deals with the relationships between these areas and their connections with composition, performance, criticism and pedagogy. Extensive training in the techniques of scholarship, preparation of papers and dissertations and the use of the library. Prerequisite: MUS 261

MUS 307 Basic Conducting

Presents the basic techniques of conducting, both with and without a baton. These fechniques include basic beat patterns, preparation, cut-offs, fermatas, tempos, moods, use of the left hand, etc. Each student conducts using the class as the performing medium.

MUS 308 Choral Conducting

Develops and refines the basic techniques of conducting acquired in Basic Conducting. Actual conducting experience applies these techniques to the specific demands of vocal music. Other areas of study include organization and administration of secondary school choral groups, tone and diction and rehearsal techniques. Prerequisite: MUS 307

MUS 309 Instrumental Conducting

Basic conducting techniques applied to the media of orchestra and band. Score reading, rehearsal techniques and interpretation are included in addition to further development of physical skill. Prerequisite: MUS 307

MUS 310 Junior Recital Performance I Taken with MUS 362 or MUS 390. 0 credits

MUS 311 Junior Recital Performance II Taken with MUS 363 or MUS 391. 0 credits

MUS 322-323 Jazz Improvisation III and IV Continuation of Improvisation II Prerequisites: MUS 161, 320, 321 and/or per-

mission of the instructor 2 credits each

MUS 331 Western Music Through Josquin

A detailed study of Western music and its place in society through the death of Josquin des Prez.

MUS 332 Music in the Late Renaissance and Baroque Periods

Western music from the sixteenth, seventeenth and early eighteenth centuries is listened to, analyzed and discussed.

MUS 333 Music in the Rococo and Classical Periods

A study of the music from the sons of Bach through Beethoven.

MUS 334 Music in the Romantic Period

An in-depth study of European music and its place in society during the nineteenth century.

MUS 335 Choral Literature

A chronological survey and examination of representative choral compositions from each period of Western music, with emphasis on style and its relation to performance. This music is studied in relation to the cultural environment of its time.

Prerequisite: Permission of the Instructor

MUS 336 Accompanying

Provides opportunities for upper-class students and advanced piano majors to study the art of accompanying and to develop potential in this area of piano performance.

MUS 341 Composition Class I

A workshop course in musical composition. The instructor assigns specific technical and/or expressive problems. All music is written for instruments or ensembles available in the department and all works are performed in class or in concert. No stylistic limitations.

Prerequisite: MUS 161 and permission of the instructor

MUS 342 Composition Class II

A continuation of Composition Class I with emphasis on contemporary styles and techniques, strict and free serial techniques, proportional and other approximate notations, aleatory procedures, polymusic, etc.

Prerequisite: MUS 341 and permission of the instructor

MUS 345 Music Management Seminar I.

Course divides music industry into specific areas and examines each one in depth, focusing on interrelationships and differences. Technical and administrative areas of the music industry are investigated in terms of historical analysis and current trends. Available entry-level positions are surveyed.

MUS 370 Jazz Arranging

Introduction to basic concepts and techniques of contemporary arranging. Study of instrumental ranges and transpositions, symbolization, rhythm section, notation, etc. Four-part sectional writing with attention to voice leading, blend and textural effects.

Prerequisite: MUS 260 and/or permission of the instructor

MUS 371 Advanced Jazz Arranging

Expansion of the principles introduced in MUS 370. Instructor assigns specific technical and expressive problems aimed at helping the student develop the writing skill and concepts necessary to realize complete arrangements for a large jazz ensemble.

Prerequisite: MUS 260 and/or permission of the instructor

MUS 401 Twentieth Century Music

A survey of contemporary music as exemplified by representative works of the leading composers of the century. Detailed analysis of a limited number of works which represent significant stylistic and expressive trends.

Prerequisite: MUS 160

MUS 408 Advanced Choral Conducting

Provides for continued study and practice of choral conducting techniques. Emphasis on developing good vocal tone production in choral groups, style and interpretation in choral literature and program building. Some of the standard larger choral works are studied.

MUS 410 Maintenance and Repair of Music Instruments

Problems of repair with respect to brass, woodwind, string and percussion instruments.

Laboratory sessions.

MUS 411 Piano Tuning

Complete explanation and application of tuning acoustic and electric pianos by the equal temperament system. Problems, procedures and exploration of standard techniques.

MUS 412 Music Graphics

The history, theory and practice of preparing graphic music copy.

MUS 413 The Music Business

Provides the student with an understanding of business practice as related to the music industry. Topics covered include contracts, union regulations, dealing with booking agents, personal managers, publishers and producers, instrument sales, operating music studio and store and other assorted survival techniques.

MUS 464 Senior Recital Performance

B.S. majors take this with MUS 462; B.A. majors take this with MUS 463 and 464; B.M. majors take this with MUS 490 and 491. 0 credits

MUS 495 Jazz/Pop Style and Repertoire

A practical performance laboratory course with emphasis on style and memorization (melody and chord progressions) of standard tunes most frequently used in jazz and the single engagement field.

MUS 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of Theatre

Professors—W. Grant, B. Gulbranson, R. Leppert, J. Ludwig, B. Sandberg, J. Young Associate Professor-R. Morgan (chair-

Half-Time Visiting Specialists—R. Harmon, K. Okoampa-Ahoofe

To develop the individual's creative potential; to explore human situations and relations in an artistic context, thereby gaining insight into one's own life; and to understand and appreciate the dramatic arts in theory and practice—these are the goals of the dramatic arts program.

The dramatic arts have long been recognized as an endeavor that combines all of the arts, most of the crafts, and some of the sciences. For the student who wishes to increase his theatrical sensibilities, the dramatic arts major program is performance-oriented and craft-based. The sequence of courses is designed to relate the ancient world to the present day, to bring critical appraisal into direct contact with creative experiment and to provide a fund of life experiences centered upon the comparison and clarification of values-moral, social and personal.

The major program prepares the student for advanced training at the graduate level and employment viability in the theatre, as well as in related areas such as arts administration, communication arts and public relations.

MAJC	OR . REG	QUIREMENTS 40 cree	dits
THEA	111 .	Audience Management Laboratory	1
THEA	112	Technical Theatre Laboratory	1
THEA	114	Costume Construction Laboratory	. 1
THEA	141	Theatre Management	3 .3 1 3 3
THEA	162	Stagecraft I	.3
THEA	163	Production Laboratory	1
THEA	210	Playscripts I	3
THEA	211	Acting: Principles of	3
	,	Characterization	
THEA	212	Broadway Matinees	3 3
THEA	310	History of Theatre	3
Plus s	ix of t	he following:	
THEA	104	Basic Play Production	3 3 3
THEA	213	Acting: Scene Study	3
THEA	262	Readers Theatre	3
THEA	263	American Musical	3
		Theatre '	
THEA	271	Acting: 'Improvisational	3
		· Techniques	
THEA	311,	Drama for Children	3 3 3
THEA		Directing	3
THEA	325	Acting: Classic Theatre	3
		Techniques	
THEA		Scene Painting I	3 3 3
THEA		Stage Lighting -' .	3
THEA	363	American Theatre	3
•		and Drama	٠ _
THEA		Scene Design I	3.
THEA	389	Introduction to	3
T. 15 A	005	Drama Therapy	_
THEA	395 ·	Field Experiences in	3
T. 15 A	444	Drama and Theatre	3
THEA	411	Playwriting I	3

Courses

Unless otherwise noted, each course is for 3 credits.

The first three courses are especially designed to satisfy general education require-

THEA 101 Introduction to Theatre

An innovative study of the dramatic process covering all facets of play production. The course is approached from the appreciation point of view.

THEA 102 Fundamentals of Acting

A practical introduction to the contemporary skills and techniques of acting through exercises designed to develop the student's individual creative abilities and self-confidence.

THEA 104 Basic Play Production

A basic course in the selection of dramatic material and its mounting as a play, including direction, production, management, acting and the crafts of set, light and costume design.

THEA 111 Audience Management Laboratory

A practical application of the administrative aspects of audience management. May be repeated for credit.

THEA 112 Technical Theatre Laboratory

A practical application in the technical aspects of play production. Back stage assignments under faculty supervision. May be repeated for credit. 1 credit

THEA 113 Rehearsal and Production

A practical application in acting under faculty supervision. Work includes rehearsing and performing a play for public presentation. May be repeated for credit. Prerequisite: Audition 1 credit

THEA 114 Costume Construction Laboratory

A practical course in building costumes for theatre productions. May be repeated for credit. 1 crèdit

THEA 141 Theatre Management

A practical approach to learning skills in box office and promotional activities.

THEA 162 Stagecraft 1

A practical study of the stage and related facilities and their use within the production framework. Includes instruction in the basic methods of stagecraft, including backstage organization, stage management and the methods of production of set building, set painting; lighting, costuming and sound.

THEA 163 Production Laboratory

A practical application of the principles of stagecraft. Production-related projects in such crafts as scenic construction, scene painting, properties, lighting and sound. 1 credit

THEA 210 Playscripts I

A study of playscripts in terms of both their fictional and narrative content and their theatrical structural function. Investigation of the reasoning process involved in visualizing the transformation of a script on the page into a play on the stage.

THEA 211 Acting: Principles of Characterization

Basic principles in the development of character through play analysis and scene

THEA 212 Broadway Matinees

Through reading scripts and viewing plays and other theatrical events, the student develops an understanding of the forms and styles of theatre today and of theatre's role in our culture. Field trips to Broadway and off-Broadway theatres. Attendance at plays and other theatrical events is required.

THEA 213 Acting: Scene Study

An advanced course in acting techniques with an introduction to various styles and approaches through group scene work. Prerequisite: THEA 211

THEA 223 Stage Speech

A comprehensive and practical study of accepted stage speech, including American and foreign dialects.

THEA 232 Basic Costuming

Introduces the basic principles, theories and practices of constructing theatrical costumes through lecture, demonstration and practical projects executed by the, student. Also includes the methods and materials for the construction of costume accessories.

THEA 260 Playscripts II

A continuation of the method of studying playscripts begun in THEA 210.

THEA 262 Readers Theatre

Analysis and group performance of various modes of literature. Emphasis on the appropriate speech, body language and staging techniques needed to effectively and theatrically share the written material with an audience.

THEA 271 Acting: Improvisational Techniques

Basic principles in the development of performance through improvisation.

THEA 310 History of Theatre

Explores the historical development of dramatic form, the physical theatre and technical theatre arts from the Greeks to the present. Investigates the social and cultural forces which shaped the theatre and develops critical standards of theatre.

THEA 311 Drama for Children

Study of the importance of dramatic process in a child's individual and social growth. Investigation of the dynamics of the creative process within formal drama (children's theatre) and informal drama (creative dramatics).

THEA 312 Directing

Theory and practice in the fundamentals of staging a play: script selection and analysis, casting, coordination of production elements, planning rehearsals for specific purposes, problems, suspense, climax and creating a mood. Individual projects required.

THEA 320 Movement Training for the Actor I

Basic and practical instruction in the specific techniques and exercises needed in freeing and developing the actor's body. Special emphasis on dance as an interpretative element of playmaking. Fundamental instruction in ballet and modern.

THEA 325 Acting: Classical Theatre Techniques

A supervised study of the style of acting appropriate for approaching roles from major historical periods: Greek, seventeenth-century French, the Restoration and eighteenth-century England, nineteenth-century melodrama.

THEA 326 Acting: Comic Techniques

A concentrated study of the techniques appropriate to handling comedic roles.

THEA 330 Scene Painting I

A study of the basic styles of theatrical painting. Concentration on dry pigments and casein mediums. Develops in the student a basic ability to interpret the scenic designer's elevations and reproduce them for the stage.

THEA 333 Stage Management

Introductory training in the duties of the manager in the normal process of producing a play. Audition, rehearsal period, performance and post performance functions and procedures are examined.

THEA 334 Stage Lighting

Training in problems of stage lighting design and practical application of principles and techniques. Individual projects required.

THEA 340 Movement Training for the Actor II

Advanced practical instruction in the specific techniques and exercises needed in freeing and developing the actor's body. A continuation of THEA 320.

THEA 363 American Theatre and Drama

The study of the development of American theatre and its drama from the colonial period to the present, with emphasis on twentieth century American drama.

THEA 372 Stage Makeup

Techniques of straight, corrective and character makeup application and a study of makeup styles for specific periods in theatrical history for the actor.

THEA 376 Acting: Musical Theatre Techniques

A supervised study of the techniques appropriate to developing roles in musical theatre. Special attention is given to the interpretation of a musical selection.

THEA 379 Scene Design I

Investigation of the problems of scene design and its application to theatrical production in various forms. Individual projects required.

THEA 380 Scene Design II

A comprehensive examination of set design, emphasizing the development of rendering and model-building techniques for presentational purposes. Students provide settings for major projects in laboratory situations

THEA 382 Stage Drafting

Basic training in the mechanics of theatrical drafting. Ground plans, theatrical cross sectioning and construction details are the primary areas of concentration. Emphasis on the designer processes and methods of development of scenic elevations from ground plans.

THEA 384 Advanced Lighting and Sound

Advanced training in the problems of light ing design and control. The use and application of sound effects and the development of sound systems are examined in detail.

THEA 395 Field Experiences in Drama and Theatre

Students receive academic credit for guided experiences in drama and theatre in the college community. These experiences include touring productions to area schools, geriatric centers, etc.; drama therapy internships, drama education in local schools and other assignments as determined by the instructor.

THEA 411 Playwriting I

A study and practice in the basic techniques of playwriting. Emphasizes dramatic structure and characterization developed through the writing of scenes and short plays.

THEA 412 Children's Theatre

Study of the educational and artistic modes of contemporary children's theatre. Focuses on styles of presentation and children's dramatic literature.

THEA 430 Scene Painting II

Advanced scene painting techniques and a continuation of THEA 330, emphasizing material use.

THEA 432 Design: Periods and Styles

Explores the styles and periods of ornament, architecture and furnishings of the major historical periods. Students are expected to assemble a basic source book of design-related materials.

THEA 447 Theatre Workshop I

Training and experience in the creative process of rehearsing and performing a play before an audience. Through audition, the student is assigned work in one of the following areas: acting, design, technical production or theatre management. 3-6 credits

THEA 448 Theatre Workshop II

A continuation of THEA 447. 3-9 credits

THEA 461 Playwriting II

A more advanced and individualized continuation of THEA 411.

Prerequisite: THEA 411

THEA 476 Acting: Realism

A supervised study of realistic roles from the vast repertory of world drama.

THEÀ 479 Acting: Showcase

A directed independent practicum culminating in a public performance.

THEA 481 Costume Design

Training and experience in the problems of costume design and construction for various forms and styles of theatrical productions.

THEA 499 Independent Study in Performance

An advanced performance project under faculty supervision.

Prerequisite: Approval of the chairperson

The School of Education and Community Service

Joan Tuohy Tetens, Dean Raubinger 430

The School of Education and Community Service develops and administers the education components of the College's teacher education programs, including those in community and human services.

By arrangement with the New Jersey State Department of Education, it approves its graduates for certification as teachers. These programs are generally acceptable in other states which recognize the standards of the National Commission for Accreditation of Teacher Education or the National Association of State Directors of Teacher Education and Certification.

The School of Education and Community Service makes every effort to relate student needs, program innovations and interdisciplinary offerings to the contemporary world. The school has been actively involved in all types of grant programs, especially those in special, bilingual, parent and early childhood education, head start, microcomputer and gerontology.

Undergraduate Evening Students

Regularly admitted evening students interested in pursuing a teacher education program must indicate their choice early and apply for admission to a major program. Typically, their last semester must be spent student teaching in the area appropriate to the major. Individualized alternatives for the senior field experience may be possible if approved and arranged by the school through the Office of Field Laboratory Experiences.

Teacher education sequences are available to undergraduate evening students in the following fields: early childhood, elementary education, special education, urban education, English, history, biology, mathematics, communication, speech pathology, art, sociology, political science, and the associate media specialist program.

Students interested in certification in bilingual/bicultural education should consult p. 68; in teaching English as a second language, p. 68; in speech correction, p. 56; and in health, p. 53.

Field Laboratory Experiences

The Office of Field Laboratory Experiences coordinates practicums, which are preliminary teaching experiences in the schools, and culminating field experiences, the final student teaching experience undertaken in the senior year.

Located in Room 206 of Hunziker Hall, the office is directed by Dr. Harry T. Gumaer. Associate director of the office is John Huber.

Prerequisites for EDUC 403 Culminating Field Experience and EDUC 415 Senior Teaching Internships include:

- Admission to the appropriate major department.
- Approval of the individual applicant by the Program Review Committee of the department, which is responsible for certification, based on the following standards:
 - (a) A cumulative grade point average of 2.5 at the close of the semester immediately preceding student teaching.
 - (b) A cumulative grade point average of 2.5 in the major field, in directed electives, and in the teacher education sequence.
 - (c) Satisfactory completion of all preliminary field experiences and methods courses required in the program.
 - (d) A minimum of 84 credits completed at the end of the semester preceding student teaching.
 - (e) Completion of all requirements based on the freshman basic skills tests in reading, writing and mathematics and the successful completion of ENG 110 Writing Effective Prose.
 - (f) An analysis of speech patterns and problems (if any).
 - (g) Consideration of additional departmental standards in the form of auditions, physical performance requirements, submission of portfolio, specific skills tests, comprehensive tests, etc.
 - (h) A personal interview conducted by the appropriate review committee to appraise the previous requirements and recommend approval, disapproval, or tentative approval pending corrective work.
- 3. In addition, the student must:
 - (a) Have documentation of a negative test for tuberculosis during the eight months prior to the culminating field experience.
 - (b) Apply to the Office of Field Laboratory Experiences by February 1 of the junior year.
 - (c) Pay a service fee of \$60 (in addition to tuition fees) prior to the processing of the application for the culminating field experience.

Policies for the Culminating Field Experience

The following rules apply to the selection of a cooperating school and teacher for the culminating field experience:

- 1. No student will attempt to effect his own placement.
- An effort is made to place students within reasonable commuting distances, but assignments are based primarily on availability of suitable cooperating teachers and school districts.
- 3. The community in which the student lives is generally not used for placement.
- 4. Placement is in the major field in a public school district.

The student is supervised and evaluated by a college supervisor and a cooperating teacher in the school district. A grade of "P" (pass) or "F" (fail) is assigned by the college supervisor after consultation with the cooperating teacher. Waivers for the culminating field experience are not authorized.

Requirements for Practicum Assignments

Prerequisites for practicums vary according to departments, but usually include 60 college credits and admission to the department. Waivers are granted only upon documentation of experience and by joint approval of the department and the Office of Field Laboratory Experiences.

Courses

Unless otherwise noted, all courses are for 3 credits.

EDUC 333 Individualized Instruction

A course involving weekly seminars concerning individualized teaching, plus tutoring experiences in selected school systems with innovative or well-tested programs. The course provides an opportunity for the student planning to enter a teacher preparation program to determine if he really wants to teach. Students arrange a free day for field work when they plan their schedules. By advanced application only with the Office of Field Laboratory Experiences.

EDUC 403 Culminating Field Experience

A senior student is assigned fulltime to student teach for a minimum of 8 weeks in a public school under the guidance of a cooperating teacher and the supervision of a college faculty member. In this situation, the student teacher participates in all classroom activities with increasing responsibility until, at the close of the period, the student does full-time teaching. In addition, the student is expected to participate in co-curricular activities and school programs. Through this total experience, students become familiar with classroom management, teaching procedures and materials, pupil characteristics and development patterns, the organization and educational program of the school, community resources and the relationship among the school and parents and community groups:
Prerequisites: See Field Laboratory Experiences, p. 33.
8 credits

EDUC 415 Senior Teaching Internship

Each student is assigned to a public school for an extended period to serve successively as observer, aide, associate and teacher, concluding with full-time teaching. The student becomes familiar with classroom management, teaching strategies, pupil characteristics, the organization of the school and relationships with the community. This model combines theory and practice in an evolutionary situation under the guidance of the cooperating teacher and college supervisor. Constant feedback and reinforcement is provided through a required parallel course, EDUC 416, or an equivalent and parallel course approved by the Office of Field Laboratory Experiences.

Prerequisites: See p. 33. 12 credits

EDUC 416 Performance Tasks in Teaching

This seminar course, designed to accompany EDUC 415 Senior Teaching Internship, provides feedback and reinforcement in the process of combining educational theory and practice. Assignments are related to the ongoing tasks and problems of the internship. The course also explores innovative arrangements in schools and the need for effective teaching.

EDUC 465 In-Service Supervised Teaching Seminar I

Meets the needs of the beginning teacher already employed on a full-time annual contract who has not met the student teaching requirement. Areas of attention include classroom management, individualized instruction, lesson planning, pupil evaluation, school-community relations, analysis of pupil behavior patterns and other problems related to the student's work experience. Incorporates bi-weekly seminar meetings and evaluation visits by the college supervisor to each student's classroom.

Open only to students enrolled in a certification sequence at William Paterson College. No credit is given for Part I without Part II.

4 credits

EDUC 466 In-Service Supervised Teaching Seminar II

A continuation of EDUC 465 4 credits

Women's Studies

MINÇ	R REG	UIREMENTS . 18 cre	dits
WS ·	110	Women's Changing Roles	3
or			
POĹ	210	Politics and Sex	3
Plus fi	ive of t	he following courses:	
AAAS	255	The Black Woman	3
		Experience	_
ENG	217		3
ENIO	040	Modern Literature	_
ENG,	219	Nineteenth Century Women's Voices	, 3
ENG	220	Women, the Bible and	٠ 2.
LING	220	Modern Literature	ې
HSA	307	'Sex Differences and Dis-	3
110/	507	crimination in Public	0
	,	Education	
HSA	499	Independent Study in	1-3
		Women's Studies	. •
HSC	210	Women's Health	3
HIST	250	Women's History	3
PHIL	, 324	Philosophy of Sexual	3
		Politics	
PSY	311	Psychology of Women	3

Courses

Unless otherwise noted, all courses are for 3 credits.

WS 110 Women's Changing Roles

A history and analysis of the origins, philosophies, issues and activities of the new women's movement. Deals with sex roles in a changing society and role conflicts of both men and women resulting from this movement. Analyzes the image of women presented in the mass media.

Department of Administrative, Adult and Secondary Programs

Professors—S. Chao, J. Gower, H. Gumaer, H. Hartman, S. Wollock

Associate Professors—R. Fern, C. Hartman (chairperson), R. Walker

The Department of Administrative, Adult and Secondary Programs offers teacher education programs which provide teaching expertise and state certification in various academic fields and the performing arts.

The AASP faculty also provides certain service courses common to all teacher education programs.

A list of majors offered by the College with a list of corresponding teaching certificates (K-12) offered by the department follows:

Cartification

(for all levels)	College Majors
Social Studies	African and Afro- American Studies
Àrt	Art
Science	Biology
Science	Chemistry
Speech Arts	.Communication
English .	English
French `	French
Social Studies	Geography
Social Studies	History
Mathematics	Mathemațics
Music	Music
Social Studies	Political Science
Social Studies	Sociology
Spanish	Spanish
Social Studies	Urbán Education

The department coordinates its program with the various college departments that offer the subject majors. Advisement is provided cooperatively. Special forms are available for individualized student advisement. Special attention is given to advisement with respect to responsibilities, program and the personal competencies of students who select teaching as a career. Professional semesters and other appropriately designed field experiences, in each discipline provide the student with early field experiences, methods of teaching and culminating field laboratories coordinated with seminars.

Secondary Education

In addition to general education requirements and major, directed elective and special courses that major departments may require of students seeking subject field certification, students must also complete the following to obtain teaching certification from the Department of Administrative, Adult and Secondary Programs.

	FICATI		ans
(K-12)	REQU	JIREMENTS	
PSY HSC ELED	110 120 310	General Psychology* Current Health Issues* Educational Psychology: Adaptations and Interventions in the Classroom	3 3 3
or PSY	210	Developmental Psychology (for majors in art	3
SED	340	and music) Exploring the Teaching Field (a pre-student teaching field require- ment)	1
SED	302	Discovering Your Teaching Self (K-12)	3
RLA RLA	329 330	Foundations of Reading Reading Strategies for the Content Areas	3
or SED	382	Teaching Reading Grades 5-12	3
SED	301	Curriculum and Its Implementation (art and music majors are ex-	3
SED	330	empt) Implementing Your Teaching Major (K-12) (Dependent upon major art and music majors are exempt)	3
or SED	331	Implementing Your Teaching Major (K-12) (Dependent upon major art and music majors are exempt)	3
EDUC	403	Culminating Field Experience	8
SED	404	Instructional Seminar for Student Teaching	1
Plus of		uman relations course from	the
SED SED	381 391	Educational Sociology Challenge, Change and Commitment, in Education	3 3
SED	432	Human Adaptations and Alternatives in the School	3
URED	482	The Inner City Child and	3

His Environment

SUBJECT FIELD

		professional preparation cou Ilowing:	ırse
SED	380	Insights and Outlooks in Education	3
SED	428	Simulated Laboratory Ex- periences in Secondary Schools	3
SED	430	Teaching Literature to Young Adults: Grades 5-12	3
SED	480	Field Research in Teacher	3

*PSY 110 and HSC 120 may be applied toward partial fulfillment of general education requirements.

Modern Educational

Education

Media

Courses

323

LMS

40 credits

Unless otherwise noted, all courses are for 3 credits.

SED 301 Curriculum and Its Implementation

A study of the major goals and standards of the various curricula used by regular schools and alternative schools. Emphasizes recent developments in the various subject fields and the teacher's role in the process of curriculum change. A senior practicum, taken concurrently with the methods course in the fields of English, social studies, mathematics, science, foreign language, communication.

SED 302 Discovering Your Teaching Self (K-12)

The student becomes familiar with 1) aspects of rules, regulations, structure and organizational patterns operating in the schools; 2) the role of the subject matter specialist in the elementary school and the development of an instructional program in a given discipline; 3) the importance of students' needs and interests in preparing educational programs; and 4) aspects of teaching as a career option. Corequisite: SED 340 Exploring the Teaching Field

A pre-student teaching requirement of the junior year. SED 302 and 340 constitute the Junior Year Field Model.

SED 303 Music Education I

An analysis of methods, techniques and materials for teaching music in the elementary school. Explores the place and aims of music in the elementary school with attention to general classroom music and the development of vocal and instrumental groups. Work is related to field experiences.

Corequisites: SED 324, 404 and EDUC 403 For music education majors

SED 326 Art, Children and Learning Vitality Students plan, develop, conduct, evaluate and share art activities, happenings, and learning experiences with interested youngsters in a program that develops in the college student an understanding of the function of art in the life of the child. Provides insights into the background, development, directions and thrusts of art

Elective for all students; required of art education majors.

SED 329 The Competencies of Open Education

education for the 1980's.

3

Explores the characteristics of open education that encourage creativity, develop appreciation and nurture sensitivity. Develops insights and understandings of such programs through directed experiences. Sequences range from concrete to complex and involve self-selection of activities within the framework of individualization.

SED 330 Implementing Your Teaching Major (K-12)

Forms and procedures for instructional planning (including media and materials) are defined, designed, implemented and evaluated. Develops the student teacher's classroom competencies. In order to obtain specific teaching techniques appropriate to the discipline or subject major, the following modules are provided:

MODULE A—English

Emphasizes the objectives of English education, the individualization of instruction, pupil evaluation and trends in English curriculum development. The teaching of reading in secondary schools is given attention.

Prerequisite: Admission to the English major Corequisite: SED 301 Curriculum and Its Implementation.

MODULE B-Foreign Language

Emphasizes the objectives of modern foreign language education, the individualization of instruction, teaching the spoken language and pupil evaluation. Prerequisite: Admission to foreign language major

Corequisite: SED 301

MODULE C—Communication (Speech Arts)

Emphasizes speaking and listening skills, classroom activities in speech and dramatics, studies in mass media, methods and materials for teaching and evaluating. Includes speech, television and radio, oral reading, dramatics, choral speaking, debate and assembly programs.

Prerequisite: Admission to the communication major

Corequisite: SED 301

SED 331 Implementing Your Teaching Major (K-12)

Forms and procedures for instructional planning (including media and materials) are defined, designed, implemented and evaluated. Develops the student teacher's classroom competencies. In order to obtain specific teaching techniques appropriate to the discipline or subject major, the following modules are provided:

MODULE E—Mathematics

Emphasizes the objectives of mathematics education, the individualization of instruction, pupil evaluation and trends in mathematics curriculum development. Prerequisite: Satisfactory standing in the mathematics major program Corequisite: SED 301

MODULE F-Science

Emphasis on the objectives of science education, the individualization of instruction, pupil evaluation and trends in science curriculum development.

Prerequisite: Admission to the biology or chemistry major

Corequisite: SED 301

MODULE G-Social Studies

Emphasis on the objectives of social studies education, the individualization of instruction, pupil evaluation and trends in social studies curriculum development. Taken concurrently with SED 301 so that methodology may be related to the practicum. Prerequisite: Admission to the geography, history, political science, sociology, African and Afro-American studies or urban education major. Corequisite: SED 301

SED 340 Exploring the Teaching Field

Provides bridge between theory and practice. Observation of necessary skills such as responsibility and cooperation, taking instruction, being on time and remaining on the job. At the elementary school level, this experience permits the college student to observe and aid the classroom teacher in a variety of activities, excluding the actual teaching of the class. Must be taken in the junior year.

Corequisite: SED 302 1 credit

SED 342 Ecology for Educators

A multidisciplinary course, using materials from many science disciplines. Develops adequate teacher background with multiple teaching strategies for the energy and conservation topics taught in grades 1-12. Field trips to energy-producing and energy-research stations. Students learn to use a variety of audio-visual aids, some self-prepared, to construct resource units and units of study for specific grade levels.

SED 350 Teaching the intermediate Years

Designed for students intending to teach the late pre-adolescent or early adolescent. Special attention to the objectives, concepts, methods and materials significant in an instructional program for the intermediate years. Emphasis on developing competencies in guidance, working as part of a teaching team, using the problem-solving approach, integrating a variety of content and developing techniques for successful teaching in blocktime situations. Develops skills in evaluating, testing and reporting learning.

SED 351 Field Experience and Seminar: Stratum I

A series of professional laboratory experiences designed to provide students with regular opportunities for observation in intermediate and junior high schools and for extended participation as teacher aides and para-professionals in the school. Students meet as a seminar to share their observations, analyze their problems and further develop skills and resources. Prerequisite: SED 350

SED 352 Curriculum of the Intermediate and Junior, High School

Examines the development, organizational structure and program of various types of intermediate and junior high schools. Attention to recent developments in the various subject fields and the teacher's role in the process of curriculum change. Explores new types of school organization and scheduling.

SED 360 New Perspectives in English

Examines contemporary and innovative methods, techniques, media, materials and research used in the teaching of English in the intermediate and junior high school grades. New approaches to the teaching of oral English, literature, composition and language structure, and to the recommendations of professional and learned societies.

SED 363 New Perspectives in Mathematics

Contemporary thinking and innovations in the teaching of mathematics in the intermediate and junior high school grades. Methods, techniques, media, materials, research and content appropriate to these grade levels are reviewed. Modern arithmetic and algebra, informal geometry and statistics, and the recommendations of professional and learned societies are included.

SED 380 Evolving Concepts of Education

Concepts and theories from historical. philosophical and sociological sources. Outlooks for emerging and developing educational thought are examined through instructional practices currently observable in institutions of learning.

SED 381 Educational Sociology

Basic concepts of human relationships and selected problems of the contemporary social order are analyzed. Individual research in the area of students' special needs and interests. Topics include housing, race, crime and delinquency, teachercommunity relationships, community action and cultural relations.

SED 383 Teaching Reading in Grades 5-12

A survey of the developmental, work-study and recreational reading of intermediate, junior high and senior high school students. Emphasizes methods of improving reading and study skills in subject matter areas. For secondary education students only.

SED 391 Challenge, Change and Commitment in Education

Presents the challenge and change related to the functions and role of education in an increasingly complex and technological society. The school, as an institution, is examined in relation to other educative agencies in the local, state, national and world communities. Commitment to the teaching profession is viewed as important in the study of the status and role of education in the American culture.

SED 392 Education in a Time of Crisis

Explores some specific aspects of the global crisis and its impact on culture with a focus on education. Individual student examination of immediate cultural binds in that student's own experience and a sharing of these through confrontation, interaction and dialogue.

SED 393 Adventures in Affective Education

Designed to enhance and develop the students' intuitive, creative and imaginative senses so that they can discover fechniques and skills for fostering this kind of growth in their own students. Major focus on newer techniques and strategies used in teaching and learning in both traditional and non-traditional schools and settings.

SED 404 Instructional Seminar for Student Teachina

Explores current trends and developments in public education with particular attention to classroom management and other problems confronting student teachers. Conducted during the semester of the student teaching experience. Corequisite: EDUC 403

1 credit

SED 405 Art Education I

An analysis of methods, techniques and materials for teaching art in the elementary school. A study of philosophy and history of art education, curriculum organization and art activities that contribute to the creative and mental growth of children. Corequisites: SED 404, 408 and EDUC 403

For art education majors

SED 407 Music Education II

An overview of the music program in the junior and senior high school. Methods, techniques, media, materials and research in teaching music at the secondary school level. Emphasis on the general music class, the organization and development of vocal and instrumental groups, high school music appreciation and theory, and related arts programs.

Prerequisite: Admission to the instrumental or vocal music major

SED 408 Art Education II

Analyzes techniques, methods and media in the secondary school art curriculum. A practicum is included.

Prerequisite: Admission to the art major Corequisites: EDUC 403, SED 404, SED 405

SED 428 Simulated Laboratory Experiences in Secondary Schools

Provides an overview of the changing high school with emphasis on solving multi-ethnic problems. Each student has an opportunity to approach, assess and solve these problems and to handle potentially difficult situations.

SED 430 Teaching Literature to Young Adults: Grades 5-12

A study of the books actually read by the modern adolescent in grades 5-12. An analysis of subliterature, the adolescent novel, the popular adult book, relevant poetry, nonfiction and the ethnic experience in literature. Stresses effective ways of teaching literature to the adolescent.

SED 432 Human Adaptations and Alternatives in the School

A pre-service course for teachers. Designed to study the human relations aspect of social interaction and cultural changes in the schools today.

SED 435 Alternative Forms of Education

The alternative school movement, including educational options provided both inside and outside the framework of public schools. Considers pioneer programs, alternative learning experiences and innovative educational approaches.

Elective for teacher education majors. Students in other programs may enroll with the permission of the instructor.

SED 436 Creativity and Display in Instruction

Develops an understanding of the creative process and its practical application in the classroom. Helps the teacher master display techniques and multimedia devices as forms of communication, motivation and growth.

SED 437 Adult and Continuing Education

A study of various program-sponsoring agencies and the participants they reach. The student observes how instructional devices and individualized techniques are utilized in teaching adults. Some class meetings are conducted in the field.

SED 438 Field Trips and Experiential Learning

Provides the student with relevant learning experiences. The effectiveness of the experience is related to the choice, planning and organization of the educational happenings.

SED 451 Education Laboratory: Crafts and Strategies in Earth Science

Study of techniques for conducting a laboratory oriented school earth science program. Presents and analyzes the interdisciplinary principles involved and experiential strategies. Emphasizes those processes and skills needed by prospective teachers for the effective exposition of the crafts of geoscience. Field experience for the application of concepts and skills is an integral part of the course.

SED 480 Field Research Studies in Teacher Education

A study of problems and trends in the preparation of teachers. Emphasis on defining the role of the teacher and evaluating varied educational approaches and innovations. Each student pursues an individualized project based on research in the field of education and on practical experience, which may include surveys, school visitation, participation in teaching or committee service of an educational nature.

Prerequisite: Admission to a teacher education major or certification sequence. Open to students with a 2.75 GPA or with the permission of the instructor.

SED 499 Independent Study

As approved and to be arranged. 1-3 credits

Educational Administration

ADE 401 School and Consumer Education: A Quality of Life Approach

A "quality of life approach" to the study of (1) consumerism and (2) organizational arrangements for consumer education programs offered by public schools.

Elective for teacher education majors. Students in other programs may be admitted with the permission of the instructor.

ADE 402 Schools, Manpower and Careers: Education for the Future

Considers manpower development and career-oriented education provided by public schools. Among topics: implementation of career education in a technological society; the manpower of revolution; career alternatives for the future; and schools and manpower policies.

Elective for teacher education majors. Students in other programs may be admitted with the permission of the instructor.

ADE 403 Legal and Financial Aspects of the Operation of Public Schools

Provides an introduction to legal and financial aspects of the operation of public schools: legal responsibilities, rights and duties of teachers, problems in securing and allocating funds for public education and related topics.

Elective for teacher education majors.

Department of Community, Early Childhood and Language Arts

Professors—J. Baines, E. Bell, J. Feeley, B. Grant, L. Hilton, M. Moreno, W. Willis Associate Professors—L. Aitken, A. Caliandro, A. Coletta, J. Mamone, M. Turkish Assistant Professors—V. Baldassano, J. Gallo, A. Havriliak (chairperson), S. Wepner The Department of Community, Early Childhood and Language Arts contains three units offering two undergraduate and two graduate degrees. The undergraduate degrees are a B.A. in early childhood education and a B.A. in urban education and community affairs. In addition, the reading and language arts component of the department offers an endorsement in readina.

Urban Education and Community Affairs

The urban education and community affairs unit offers programs in education and community affairs. Students wishing to take teacher preparation courses in urban education may be certified in early childhood, elementary education, or secondary education/social studies.

Students wishing to pursue careers in community services may, with departmental approval, follow the non-certification program. Students following one of the three certification programs must complete general education courses required of all students, major courses required by the department and certification courses.

Students following the community careers program must complete general education courses required of all students, and major courses selected, by departmental advisement.

MAJOR REQUIREMENTS 33 credits The Human Community **URED 120** ÜRED 200 Introduction to Urban 3 Education Community Affairs Semi-**URED 301** 6 nar and Field Study **URED 482** The Inner City Child and 3 His Environment

in addition, students must select six courses from the following, or from other courses approved by the department:

appro	ved	by the department:	
		Violence in the Com-	3
		munity	
URED	210	Drug Use and Abuse	3
URED	304	Education of the Self	3
URED	372	Development and	3
		Change in Education	
URED	420	Urban Issues: Other	3
		Minorities	
URED	480	Ethnic Dance	3
URED	483	Non-Partisan Political	3
		Action ,	

CERTIFICATION REQUIREMENTS

Elementary Education: See p. 41. Early Childhood Education: See p. 38. Social Studies Education: See p. 35.

Courses

Unless otherwise noted, all courses are for 3 credits.

URED 120 The Human Community

A survey of theories concerning the nature of the human community, typical forms and processes characterizing human communities and approaches to developing and maintaining communities.

URED 121 Conflict Resolution

The study and practice of negotiating conflict resolutions and of personal and interpersonal skills required to negotiate resolutions on personal, interpersonal and group levels.

URED 200 Introduction to Urban Education

A survey of the historic, socio-political, psychological and basic economic factors of urban life as they relate to urban educational structures.

URED 209 Violence in the Community

The causes, patterns and functions of violence. Violence is studied as an extension of biology, A course in the sociobiology of violence in human communities.

URED 210 Drug Use and Abuse

A survey of aspects of basic psychological and legal information on drug use and abuse. Some field work is included.

URED 211 The Urban Environment and Child Abuse

Through lecture, discussion, reading and research, the growing phenomenon of child abuse is studied. Examines history of child abuse, relationship of parent and the law, community agencies and institutions that affect urban and ethnic child-rearing practices, causes and variety of abuse patterns and preventive programs and techniques.

URED 301 Community Affairs Seminar and Field Study

Contemporary urban issues are discussed in relation to field experience, culminating in a systems analysis of relationships between field experience and local specific problems. Conducted in combination with a field study which requires 6-8 hours of fieldwork each week in both community organizations and public agencies. 3-6 credits

URED 304 Education of the Self

A survey of literature on humanistic education to help teachers develop alternative approaches to reach students and to put teachers in touch with their own feelings and concerns.

URED 372 Development and Change in Education

Examination of the critical problems in urban education and selected strategies for change. Emphasis on curriculum and teaching strategies.

URED 480 Ethnic Dance

Survey of the European, Slavic, African and Latin cultures with emphasis on dance as an expression of the culture.

URED 481 Science in the City

Surveys major principles from the physical and biological sciences. Field work during the second half of the semester involves discovering, describing, and photographing at least fifty percent of the examples within the urban areas. Specific times and locations are entered in the final report.

URED 482 The Inner City Child and His Environment

The problems of the inner city child in the urban setting. Environmental factors are examined in terms of race, ethnic origin, and socio-economic background, showing how these factors affect a child's capacities, self-concept, motivation and intellectual potential. A critical review of literature dealing with low income youth in urban areas.

URED 483 Non-Partisan Political Action

The methods used for conducting "grass roots" campaigns through legitimate political channels.

URED 486 Contributions of Latin Americans to Urban Environment

A history of Latin American religion, diet, education and employment in the urban environment.

URED 487 Science, Technology and the Urban Society

Factors which affect man's environment and produce changes in man's relationship to his world are surveyed and analyzed. Scientific examples from the New Jersey-New York metropolitan area are used whenever possible.

URED 499 Independent Study

As approved and to be arranged. 1-3 credits

Early Childhood Education

The early childhood unit provides the student with an intensive program of theoretical and practical courses and experiences as preparation for teaching young children (0 through 8) in nursery schools, day care centers, Head Start programs, public schools and other child development programs. Graduates of this program receive a bachelor of arts degree and New Jersey certification (K-8) with a nursery school endorsement (N-K).

MAJO	OR REG	QUIREMENTS 34 cre	dits
EC	201	Creative Art for Early	3
FC	000	Childhood	•
EC	202	Music and the Young Child	3
EC	220	Reading and the Young	3
		Child	
EC	221	The Young Child and	3
		Language Arts	
EC	300	Practicum in	4
		Kindergarten	
		and Primary Grades	
EC	320	Early Childhood Cur-	6
		riculum I	
EC	321	Early Childhood Cur-	6
		riculum II	
EC	351	Mathematics in Early	3
		Childhood Education	
EC	364	Workshop in Reading	3
		and Learning Problems of	
		the Young Child	

DIREC	TED E	LECTIVES 15	credits
PSY	210		3
SPED	430	chology Education of the Excep- tional Child*	- 3

Plus one 3-credit course in history, in laboratory science and in math.

*With the exception of SPED 430, directed electives may be applied toward partial completion of general education requirements.

CERTIFICATION REQUIREMENTS 30 credits

EC	405	Early Childhood	3
EDUC	415	Internship Seminar Senior Teaching Internship	12
ELED	310	Educational Psychology: Adaptations and Interventions in the	3
HSC	321	Classroom Nutrition in Early Childhood	. 3
PSY	110	General Psychology	3
		man relations course from	the
follow	ing:		
EC	340	Parent Involvement in Early Childhood Education	3
URED	482	The Inner City Child and His Environment	3

Plus one professional preparation course from the following:

EC	210	Infant Care Programs	3
EC	339	The Art of Parenting	3
EC	340	Parent Involvement in	3
		Early Childhood ,	
		Education	
LMS	323	Modern Educational Media	3
RLA	325	'Children's Literature	3
	311	Drama for Children	3
URED	482	The Inner City Child	3
		and His Environment	•

Additional education electives are listed elsewhere in this catalog.

Courses

Unless otherwise noted, all courses are for 3 credits.

EC 190 Introduction to Early Childhood Education

An overview of the field of early childhood education. The unique qualities of the learning process in early childhood education are examined. Various child development programs are analyzed, with special emphasis on observation techniques. Teaching methods are emphasized.

EC 201 Creative Art for Early Childhood

Art activities as modes of perception and integration fundamental to human growth and learning. Emphasis on the experimental with multi-media.

EC 202 Music and the Young Child

Exploration and discovery in sound, rhythm, body movement, melody, harmony and playing instruments give the pre-service teacher a background in basic musicianship and develop the skills and understanding needed for the creative teaching of music. Emphasizes listening creativity, increases individual musical independence and fosters the aesthetic value of music in the young child's growth and development.

EC 210 Infant Care Programs

Focuses on the infant and toddler years, birth to three. Emphasis on the developmental process and the relation of development to environmental supports. Helps educators of young children design and maintain appropriate learning environments for infants and toddlers. Topics: play and cognition, language development, effects of early group care, scheduling the child's day, planning of programs.

EC 220 Reading and the Young Child

Explores and develops knowledge of reading as a process and a subject, including its relation to the nature of the child and the learning process. Emphasis on the fundamentals of the developmental teaching of reading at all ages and stages and the application of same to individual and group instruction.

EC 221 The Young Child and Language Arts

A study of the language skills of pre-school, kindergarten and primary children with an emphasis on listening, speaking, spelling, handwriting and creative writing. Techniques for developing and evaluating these skills within the curriculum. Also considers creative expression, dramatic play and children's literature.

EC 300 Practicum in Kindergarten and Primary Grades

A teaching-learning experience with children in grades K-3. Students observe, assess and work with small groups and, eventually, teach the whole class. Regularly scheduled seminars are held as part of the course.

EC 320 Early Childhood Curriculum I

A study of the integrated and organized activities which meet the educational, psychological, sociological and cultural needs of children 3-5 years of age. Principles of curriculum development are combined with appropriate teaching procedures and techniques. A concurrent practicum is required.

EC 321 Early Childhood Curriculum II

The role of correlated experiences from the fields of social studies, children's literature, science, art, music, health, safety, play and games in the education of the young child.

EC 339 The Art of Parenting

An introduction to the art of parenting, designed for now and future parents. Parenting patterns from infancy through adolescence are covered, with the focus, primarily, on the preschool years. Various aspects of parenting are examined, including discipline, "critical incidents," fears, illness, sex and television. Lectures, small group discussion, films and guest speakers constitute the course.

EC 340 Parent Involvement in Early Childhood Education

A study of the components of parent involvement: home-school communication, classroom tasks for parents, parent education, policy making, home learning activities, the importance of parent involvement, parent-effectiveness training and parent-teacher conferences.

EC 341 Bilingual Education: Theory and Practice in Early Childhood

Examines programs and related research in bilingual education, especially for young children of Spanish-speaking populations. Emphasizes the rationales for and methods of implementating bilingual programs in a socio-cultural context.

EC 351 Mathematics in Early Childhood Education

A detailed study of the number system, the four fundamental operations and such general information mathematics as is needed by children of the first three grades. The student becomes acquainted with the literature of the subject, including modern texts, recent developments in the field of arithmetic and approved methods of testing.

EC 364 Workshop in Reading and Learning Problems of Young Children

Emphasis on diagnostic-prescriptive teaching of reading. Explores the physical, intellectual, psychological and environmental factors involved in the reading problems of young children. Individual and group diagnoses, correction and the development of appropriate strategies for developmental, remedial, and corrective programs within the classroom.

EC 405 Early Childhood Internship

Designed to accompany the senior teaching internship. Comprised of three areas: 1) interaction regarding the student-teaching experience; 2) human-relations skills to assist in understanding and more effectively responding to student-teaching issues; and 3) career-development information which will guide the student in preparing and applying for positions in teaching and related fields.

EC 499 Independent Study

As approved and to be arranged. 1-3 credits

Reading and Language Arts				
		EACHER 24 cred	tits	
Requi	ired R	leading Courses 12 crea		
	datior		3	
Choo		e of the following:		
RLA			3 3	
RLA	329	Foundations of Reading	3	
EC	220	Reading and the	3	
		Young Child		
SPED	304	Teaching Reading to the	3	
		Mentally Retarded		
Read	ina In	nprovement and Practicum	6	
RLA	495	Reading Improvement	6	
	-7.0	and Practicum	•	
0	r:	and machedin		
RI.A		Reading Practicum	3	
		and one of the following	ı:	
RIA	423	Advanced Reading	З	
	720	Techniques	·	
FC	364	Early Childhood Workshop	3	
	004	in Reading	·	
Cooo	- al au - e	<u> </u>	3	
		Education in Reading	3	
		e of the following:	3	
RLA	330	Reading Strategies in	3	
٥٥٥	000	the Content Areas	3	
SED	383	Teaching Reading in	3	
		Grades 5-12		
Electi	ves		12	

Twelve additional credits in related areas of child psychology or test and measurements, or additional courses in reading and/or reading improvement are required.

	Psyci Measu	hology and Tests ures	3-9
PSY	210	Developmental	3
		Psychology	_
PSY	310	Psychological Testing	3
PSY	320	Psychology of Adolescence	3
PSY	312	Mental Health	3
PSY	351	Abnormal Psychology	
PSY	352	'Psycholinguistics	3
PSY	420	Perception	3 3 3
CSP	410		3
CSP	410	Educational Testing and Evaluation	3
FLED	210	Growth Processes of the	3
LLLD		School Age Child	·
ELED	310	Educational Psychology	. 3
Read	ing a	nd Reading Improvement	3-9
RLA	325	Children's Literature	3
SED	430	Teaching Literature to	3 3
		Young Adults	
LMS	203	Media Selection for	3
		Children	
LMS	302	Media Selections for	3
		Adolescents	
ELED	320	Teaching Language Arts	3
		in the Elementary School	
EC	221	Young Child and	3
		Language Arts	

Courses

Unless otherwise noted, all courses are for 3 credits.

RLA/ENG 107 Basic Readina

Develops and increases the student's reading vocabulary, comprehension and study skills. Also stresses flexible reading approaches applicable to various materials including the student's college texts. Credits do not count toward degree requirements.

RLA 323 Teaching Reading

A basic course in the psychological principles, methods and materials for teaching developmental reading in the elementary school. Includes aspects of readiness, word identification, comprehension, study skills, and rate; various organizational plans, informal and formal testing procedures.

RLA 325 Children's Literature

A survey of children's literature, past and present. Techniques for critiquing various genres of literature, telling stories, preparing study guides, using book selection aids, and creating interest in literature. Strategies for bringing children and books together are emphasized.

RLA 329 Foundations of Reading

The psychological and linguistic foundations of the reading process. Emphasis on how learners develop the ability to read and understand increasingly difficult and diverse materials through their school years. Stresses classroom techniques for content area teachers (K-12). The first part of the sixpoint reading sequence required for New Jersey certification in a content area (K-12).

RLA 330 Reading Strategies for the Content Areas

Reading skills and knowledge needed by the content-area teacher: the subject area materials, different modes of learning, causes of reading difficulties and methods of preparing materials and students for improved reading performance. Students develop a case study of a reader as he interacts with appropriate content area materials. The second part of the reading sequence for non-elementary education majors who are seeking K-12 certification in a specific content area. Prerequisite: RLA 329

RLA 423 Advanced Reading Techniques

Designed to help prospective teachers understand the elements of accountability involved in the teaching of reading through actual involvement in a developed case study.

Prerequisite: RLA 323 or 329

RLA 425 Reading Practicum

The application of reading theory in schools and settings in the area where the student works with youngsters or adults in need of tutoring or special instruction. Emphasis on planning, teaching and evaluating lessons. A log of experiences must be maintained. Students are supervised by college staff.

RLA 495 Reading Improvement and Practicum

The study of testing techniques, teaching materials and instructional practices designed to help elementary and secondary school children who are not reading up to their potential. The first part of the class period deals with theoretical approaches and the second part involves the student in a teaching practicum in the college reading center.

Prerequisite: RLA 323 or 329 or equivalent 6 credits

RLA 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of Elementary Education

Professors—J. Canino, T. Gerne, A. Geyer, L. Hummel, K. Job, G. Vitalone, L. Walter (chairperson), D. White, L. Zappo Associate Professors—P. Buckley, N. D'Ambrosio, M. Dougherty, W. Engels, J. Peer, G. Petine, C. Spinosa

Assistant Professors—F. Goldberg, D. Lauricella, D. Malcolm, E. Petkus

The elementary education program prepares students for teaching in a variety of classroom settings through a sequence of courses in educational foundations, methodology, professional subject matter and field experiences. The program is based on pertinent subject matter preparation and a blend of theory and practice. It is intended to give prospective teachers substantive backgrounds with a positive attitude toward self-evaluation, experimentation, innovation and change.

While the major focus is on the ability to create good learning situations in a variety of instructional and organizational patterns, students may need or wish to strengthen one or more subject matter areas. The program provides the opportunity for the individual student to design, with guidance, various concentrations in relevant areas of instruction, using various electives.

The department offers students courses and experiences to develop professionalized content backgrounds in the elementary school, in educational psychology and in the arts, mathematics, science and social studies.

MAJC	DR REG	UIREMENTS 67 cre	dits
EDUC	415	Senior Teaching	12
		Internship	
ELED	210	Growth Processes of the	3
		School-Age Child	
ELED	231	Concepts and Skills of	3
		Elementary Mathematics	
ELED	300	The Elementary School	3
ELED	301	Practicum in Elementary	3
		Education	·
FLED	310	Educational Psychology	3
LLL	0.10	Laucanonai Fsychology	3

ELED	320	Teaching Language Arts	3
ELED	324	in the Elementary School Teaching Mathematics in	2
ELED	325	the Elementary School Teaching Art in the	2
ELED	326	Elementary School Teaching Music in the	2
ELED	327	Elementary School Teaching Science in the	2
ELED	328	Elementary School Teaching Social Studies in the Elementary	2
ELED PE	404 310	School Seminar in Education Health and Physical Education Programs in	3
PSY RLA RLA	110 323 423	the Elementary School General Psychology Teaching Reading Advanced Reading Techniques	3 3 3
Plus c	ne co	ourse from each of the followi	ng:
		Relations	
ELED	203	The Urban School Experience	3.
SED SED	381 391	Educational Sociology Challenges, Change and Commitment in Educa-	3 3

ı. nui	nan	Relations	
ELED	203	The Urban School	3.
		Experience	
SED	381	Educational Sociology	3
SED	391	Challenges, Change and	3
		Commitment in Educa-	
		tion	
SED	432	Human Adaptations	3
URED	482	The Inner City Child	3
II. Ed	ucati	on Electives	
ELED	230	Explorations in Art	3
ELED	232	Fundamentals of Music	3
ELED	234	Concepts and Skills in	3
		the Social Studies	

ELED	239	Concepts and Skills in Elementary Science
III. C	ontent	
CSP	401	Educational Testing
ELED	204	Intuitive Geometry for
		the Elementary School
ELED	205	New Jersey Studies
		for Teachers
ELED	206	Earth Science for
		Teachers
ELED	221	Crafts in the School
ELED	303	Educational Laboratory:
		Crafts and Strategies in
		Elementary Mathematics
LMS	203	Media Selection for

	Children
IV.	Professional Development

ELED	302	Consumer Behavior and
		Education
ELED	329	Creativity: The
		Development of Human
		Resources
LMS	304	Instructional Media and
		the Curriculum
LMS	321	Visual Media—
		Educational Photo-
		graphy
LMS	323	Modern Educational
		Media
LMS	401	Preparation of Media

Materials

in Education

Insights and Outlooks

SED

380

ASSOCIATE EDUCATION 21 credits MEDIA SPECIALIST **ENDORSEMENT**

Undergraduate teaching majors who wish certification as an associate educational media specialist should complete the following courses:

	·		
LMS	201	Introduction to Library/ Media Services	3
LMS	202	Information Sources	3
LMS	303	Organization of Informa- tion Media	3 3
LMS	397	Library/Media Internship (Practicum)	3
LMS	401	Preparation of Media Materials	3
- LMS	402	Services of School Library/ Media Center	3
Plus o	one of	the following:	
LMS	203	Media Selection for Children	3
LMS	204	Bibliographic Techniques	3
LMS	302	Media Selection for Adolescents	3
LMS	304	Instructional Media and the Curriculum	3

Courses

3

3

3

3

3

3

3

3

3

3

3

3

3

3

Unless otherwise noted, all courses are for 3

ELED 111 Leisure Crafts

ELED 203 The Urban School Experience

Provides prospective teachers with a prepracticum experience in an urban school. The class meets one day per week for 150 minutes in an urban school. It combines the tutoring of individual school children and an on site seminar. The tutoring is supervised by a college instructor with the assistance of school personnel.

ELED 204 Intuitive Geometry for the **Elementary School**

Provides elementary school teachers with the basic concepts of position, shape and size. An informal study of the fundamental properties which characterize certain significant geometric configurations in the space of our environment.

ELED 205 N.J. Studies for Teachers

Develops the student's understanding of the comprehensive scope of New Jersey studies. Its content is drawn from the several social sciences and natural sciences, incorporating and integrating relevant and significant concepts and generalizations. Provides a content base for prospective teachers preparing to meet state studies requirements and needs.

ELED 206 Earth Science for Teachers

A study of the interdisciplinary basic principles of earth science. Provides a framework for understanding the unique physical characteristics of planet earth. Emphasis on those processes and skills needed by prospective teachers to effectively teach geoscience.

ELED 210 Growth Processes of the School-Age Child

Principles and applications of the growth and thinking processes which affect the school-age child and his learning environment are explored. The course offers an indepth study of the child from 5-16. An overview of infancy and late adolescence is included.

ELED 221 Crafts in the School

A workshop. The student designs and executes problems in wood, clay, metal, leather and weaving in terms of interests and the general level at which he expects to teach. The relationship of crafts to elementary education is explored.

ELED 230 Explorations in Art

An art workshop designed to enable the elementary major to become familiar with creative art involvement and the media and techniques necessary to accomplish an understanding of art.

ELED 231 Concepts and Skills of Elementary Mathematics

Students learn, understand, define and organize those concepts they are expected to teach in the elementary grades. Students also plan and organize microcomputer-based mathematical instruction.

ELED 232 Fundamentals of Music

The elements of music including notation, the formation of scales, keys, diatonic chords, tonal and rhythmic patterns. The student should acquire the ability to sing a simple melody at sight and carry a harmony part in a two- or three-part song.

ELED 234 Concepts and Skills in the Social **Studies**

Identifies the organizing concepts of each of the social-science disciplines: anthropology, economics, geography, history, political science and sociology as they apply to social studies for the elementary school. Highlights the content background necessary for acquiring skills necessary to teach the social studies.

ELED 239 Concepts and Skills in **Elementary Science**

Emphasis on the identification of basic concepts which describe the natural world. Covers scientific research techniques and current issues in science. Skills of inquiry and gathering and evaluating evidence for making valid descriptions of natural phenomena are pursued. New elementary school science curriculum guides, with their sequential conceptual schemes, are examined in the light of their implications or innovations at all levels.

ELED 300 The Elementary School

Current and changing perspectives in education as they apply to the organization of the elementary school; including implications for current development and teacher preparation. Team teaching, open classroom, middle school and other experimental settings are explored. Classroom management and its relation to curriculum. Correlation of work in language arts, social studies, science, mathematics, health and physical education and fine and practical arts.

ELED 301 Practicum in Elementary Education

Students are assigned to work in an education center; in addition, they meet with the practicum coordinator weekly for evaluation and coordination. The practicum experience is correlated with certain methods courses and educational psychology. Prerequisite: ELED 300.

ELED 302 Consumer Behavior and Education

Examines the processes involved in consumer behavior. A three-part format is used: information, investigation and application. Methods and techniques of implementing consumer education are pursued through the development of strategies and plans which can be correlated with various grade levels and subject areas.

ELED 303 Education Laboratory: Crafts and Strategies in Elementary Mathematics. The techniques of conducting a laboratory-oriented elementary school mathematics program. Teachers are trained to identify and diagnose mathematic difficulties and to recognize problems normally encountered in the classroom. Emphasizes prescription; the teacher becomes a diagnostician who is constantly

ELED 310 Educational Psychology

observing, testing and teaching.

The science of psychology applied to the art of teaching. Practical approaches in developing the habit of applying principles and theories developed by psychologists. The student is encouraged to think about personal educational development. Prerequisite: PSY 110

ELED 320 Teaching Language Arts in the Elementary School

Acquaints students of elementary education with the role of language and its development in the life of a child. Methods, techniques and materials used to develop the listening, speaking, writing and reading skills of children are critically examined. Attention is given to the effective uses of iterature and to current practices in teaching skills such as handwriting, spelling and grammar. Includes also the preparation of lesson plans, program organization and procedures for reporting progress in the language arts.

ELED 324 Teaching Mathematics in the Elementary School

Purposes, principles and techniques of teaching elementary school mathematics. Effective lesson planning, motivation, drill, manipulative materials, problem-solving, evaluation and remedial techniques are some of the topics covered. The work is related to field experiences.

2 credits

ELED 325 Teaching Art in the Elementary School

Direct experiences in creative art activities, including objectives and philosophy of art education. The developmental stages of children in creative and mental growth are explored.

2 credits

ELED 326 Teaching Music in the Elementary School

The methods of teaching children music as presented by the various music series and an evaluation of materials most commonly used in public schools.

2 credits

ELED 327 Teaching Science in the Elementary School

How to help students develop their ability to introduce scientific facts, ideas and methods of problem-solving in the classroom. Includes planning a science program for the elementary school, selecting and presenting information and ideas in the classroom, the selection of appropriate books, supplies and equipment and the use of field trips. Work is related to field experiences.

ELED 328 Teaching Social Studies in the Elementary School

The aims, methods, materials and organization of social studies instruction for the elementary school. Emphasis on interdisciplinary organizational patterns and inquiry methods of instruction. Work is related to field experiences. 2 credits

ELED 329 Creativity: The Development of Human Resources

A study of the relationship of productive thinking to the generation of divergent problem-solving. Further validation of creativity-intelligence interaction is achieved by exploring behavioral concepts of identity consistency and goal satisfaction.

ELED 404 Seminar in Student Teaching

The latest trends and developments in elementary education are explored. Problems of classroom management are discussed. This course is conducted during the semester of the student-teaching experience.

1 credit

ELED 405 Seminar in Education

The study of teaching as the student experiences it. Designed to accompany the internship. A variety of curricula and organizational systems are explored.

ELED 444 Science Projects for Teachers

ELED 499 Independent Study

As approved and to be arranged. 1-3 credits

LMS 201 Introduction to Library/Media Services

Surveys the fields of librarianship and educational media. Concentrates on the joint provision of print and nonprint materials and equipment to teachers, students and others. The history, philosophy and development of the emerging service patterns of library media agencies are explored with a critical examination of the roles of professional, paraprofessional and clerical staff. The types and organizational structures of library/media centers found in America, the kinds of materials collected and disseminated, the future of the profession and the opportunities for library media careers are some of the topics explored.

LMS 202 Information Sources

Examines and critically analyzes the philosophy and principles of providing information to library/media center clients in support of student and curricular needs. Reviews basic reference materials within the context of retrieving information to meet individual needs. Simulation of the reference interview situation, with a concentrated examination of the process of question-negotiation and individual information seeking behavior.

LMS 203 Media Selection for Children

Study of the basic aids, methods and criteria for selecting print and nonprint materials for children. Principles of evaluation for building and maintaining a collection in the school library/media center. Techniques and practice in the art of storytelling with emphasis on sources of materials and adaptations for story programs.

LMS 204 Bibliographic Techniques

Selects and evaluates intermediate and advanced reference sources used in subject fields. Analysis and preparation of selected bibliographics designed to assist students and teachers. Development of the reference information collection is discussed.

Prerequisite: LMS 202

young people.

LMS 302 Media Selection for Adolescents Basic principles. In the selection and evaluation of print and nonprint media for adolescents. Methods of stimulating reading interests, including the technique of book talks. Emphasis on use of selection aids and on reading and evaluating current printed materials in fields of interest to

LMS 303 Organization of Information Media

An introduction to the organizational (technical) services carried out in a library/media center by professional, paraprofessional, and clerical staff. The functions of acquisitions, cataloging, classification and inventory control (file maintenance and record keeping) are examined in relation to print and nonprint materials.

LMS 304 Instructional Media and the Curriculum

A curriculum-centered analysis of the nature and content of instructional materials. Emphasizes the methods of selecting and evaluating nonprint media as they relate to the teaching-learning process.

LMS 321 Visual Media-Educational Photography

Visual literacy and its uses. Application of still photography and motion pictures to vocational and avocational needs of the student to communicate. Uses of simple darkroom techniques and exposure skills. Emphasis on black and white still photography application with an introduction to color.

LMS 323 Modern Educational Media

An examination of the role of educational media in the learning process. Emphasis on nonprint hardware and equipment. The organization and maintenance of media hardware in the library/media center is studied along with actual student utilization of equipment in a laboratory setting. Individual mediated projects which successfully communicate an instructional message are required.

LMS 397 Library/Media Internship

150 hours of supervised practicum (8 weeks). The student spends the time in a school library/media center working as an associate educational media specialist. Prerequisites: Three library/media courses

LMS 401 Preparation of Media Materials

Helps the teacher-library/media specialist prepare simple, hand-made materials such as manipulative teaching devices and bulletin boards, and more sophisticated processes such as photography and production of overhead transparencies. Sources of materials and bibliographic references for other production methods are also explored.

LMS 402 Services of the School Library/ Media Center

Organization and administration of the school library/media center with emphasis on the center's services and functions and its place in the educational program: objectives, standards, housing and equipment, general routines, instruction in the use of the library, activities and exhibits. Culminating course in sequence. Prerequisites: Four library/media courses

Department of Special Education and Pupil Personnel Services

Professors—L. Hayes, R. Klein, L. Stoia, M. . Swack (chairperson), W. Younie Associate Professor—E. Abare Assistant Professors—G. Ford, M. Goldstein, S. Kuveke, A. Shapiro

The Department of Special Education offers Intensive specialized study leading to a bachelor of arts degree in educating the handicapped student. The major emphasizes the area of mental retardation along with emotional disturbance, physical handicaps and learning disabilities. The department offers many practical experiences in classroom management.

Students are exposed to instructional materials used in the education of exceptional children and are presented with various modes of curriculum planning for these children. Students majoring in special education are prepared for teaching positions in all areas, with the exception of the blind and the deaf, in public and private schools and residential institutions. They are eligible, upon successful completion of the program, to be certified as teachers of the handicapped by the State of New Jersey. Graduates may teach the maladjusted, multiple handicapped, and orthopedically handicapped.

Major students who elect the prescribed elementary school endorsement sequence also receive elementary certification upon araduation.

Entrance Requirements

Students who wish to major in special education must present documented evidence of having worked with handicapped children for 120 clock hours in non-public schools.

Note: A teacher aide experience is arranged, usually during the first semester of the junior year. It is called the pre-practicum experience with no course credit given. One full day must be kept open to accommodate this requirement.

MAJOR REQUIREMENTS 48 credits

SPED 2		sychology and Education 3
SPED 2		f the Handicapped arly Childhood Curriculum
		or Handicapped 3. Children
SPED 2	_	ducation of the , 3
	Р	rofoundly Retarded
SPED 2		ights of the 3
		andicapped
SPED 3	01 E	ducation of the Trainable 3
•	N	1entally Retarded
SPED 3	02 E	ducation of the Educable
	- N	lentally Retarded I 3
SPED 3	03 E	ducation of the Educable
	Ν	1entally Retarded II 3
SPED 3	04 Te	eaching Reading to the 3
	N	1entally Retarded

SPED	305	Art Activities in Special Education	3
SPED	320	Practicum in Special Education	3
SPED	404	Seminar in Student Teaching	3
SPED	410	Counseling and Vocational Guidance	3
		for Handicapped Children	
SPED	411	Prescriptive Teaching	3
SPED	412	Education of the	3
·		Emotionally and Socially Maladjusted	_
SPED	413	Education of the Neurologically Impaired	3
		and Physically	
SPED	430	Handicapped Education of the Exceptional Child	3

*Note: A practicum, SPED 320, is required of all majors in their junior year. The practicum affords the student the opportunity to work with handicapped children in a public school, private or state institution or government agency.

The Officer of Field Laboratory Experience, or the Department of Special Education, may be contacted for further information.

DIREC	TED E	LECTIVES 13	credits
BIO	214	Applied Anatomy and Physiology	4
PATH	261	Speech Disorders	3
PE	388	Adapted Physical Education	3
PSY	210	Developmental Psy- chology	3

CERTIFICATION REQUIREMENTS 24 credits EDUC 403 Culminating Field 8 Experience **ELED 310** Educational Psychology: 3 Adaptations and Interventions in the Classroom 3 **HSC** 120 Current Health Issues General Psychology 3 **PSY** 110 Seminar in Student SPED 404 Teaching

Plus one human relations course from the list given on p. 35.

Plus one professional preparation course from the list given on p. 35.

Note: Credits for PSY 110 and HSC 120 may be applied toward partial fulfillment of general education requirements.

17 credits

ELEMENTARY EDUCATION

ENDORSEMENT

		cial
351	•	3
300	Education The Flementary School	3
320	Teaching Language Arts	3
	351 300	300 The Elementary School

ELED 300 The clementary School

ELED 320 Teaching Language Arts in the Elementary School

ELED 326 Teaching Music in the Elementary School

ELED 327 Teaching Science in the Elementary School

ELED 328 Teaching Social Studies in the Elementary School

SPECIAL EDUCATION **ELECTIVE**

This course sequence is for students in another teaching major who wish to take

21 credits

courses in special education.

SPED	201	Psychology and Educa- tion of the Handicapped	3
SPED	301	Education of the Trainable Mentally Retarded	3
SPED	302	Education of the Educable Mentally Retarded I	3
SPED	303	Education of the Educable Mentally Retarded II	3
SPED	304	Teaching Reading to the Mentally Retarded	3
SPED	410	Counseling and Voca- tional Guidance for Handicapped Children	3
SPED	411	Prescriptive Teaching	3

Courses.

Unless otherwise noted, all courses are for 3

SPED 201 Psychology and Education of the Handicapped

A study of the social, emotional, physical and learning characteristics of handicapped children. Methods of diagnosis and differentiation, curriculum and teaching techniques, materials, resources and their employment for education. Psychological basis of the suitable curriculum. Introductory course for special education

SPED 205 Early Childhood Curriculum for Handicapped Children

An in-depth study of the characteristics and needs of the pre-school handicapped children. Emphasis on teaching techniques, materials and programs most appropriate for these children.

SPED 210 Education of the Profoundly Retarded

Provides students with the developmental model of training and educating profoundly retarded children and adults. Examines homes, schools and institutions as well as new alternatives for delivering care.

SPED 215 Rights of the Handicapped

Litigation and legislation relating to the rights of handicapped persons considered within a sociological and educational context. Resultant ideologies and issues are explored in relation to the changing role of the special educator.

SPED 301 Education of the Trainable **Mentally Retarded**

Methods for educating mentally retarded children who would not benefit from classes for the educable mentally retarded. Instructional materials, techniques and resources. Study of existing programs on a state and national level. One-day per week practicum in a special education classroom of a participating school is included.

Prerequisite: SPED 201

SPED 302 Education of the Educable Mentally Retarded I

Methodology and curriculum development for the mentally retarded at primary and intermediate levels. Organization and planning of activities and materials, use of resources, selection of equipment, records and reports, guidance, health, and welfare services. A one-day per week practicum in a special education classroom of a participating school is included. Prerequisite: SPED 201

SPED 303 Education of the Educable Mentally Retarded (I

Methodology and curriculum for the mentally retarded at junior and senior high levels. Consideration of employment opportunities. Job analysis, guidance, and placement procedures. A one-day per week practicum in a special education classroom of a participating school is in-

Prerequisite: SPED 302

SPED 304 Teaching Reading to the Mentally Retarded

Acquaints teachers of the mentally retarded with techniques of teaching reading. Emphasis on the effective use of these techniques to meet the special needs of the mentally retarded. Recent developments in the treatment of children with learning and perceptual problems. A oneday per week practicum in a special education classroom of a participating school is included.

Prerequisite: SPED 201; corequisite: SPED 302

SPED 305 Art Activities in Special Education

Art activities as modes of perception and integration fundamental to human growth and learning. Art forms suitable for the teaching of the handicapped. Prerequisite: SPED 201

SPED 320 Practicum in Special Education

Students are assigned to work in a variety of special education centers. The practicum is the second half of the junior field experience in special education. The first half is completed concurrently with SPED 302. The student spends one full day per week in a participating school. Experiences include observation of exceptional children and teaching individuals and small groups under supervision. Students register for this course with the Office of Field Laboratory Experiences the semester prior to taking

Prerequisites: SPED 302 and the pre-practicum experience; corequisite: SPED 303

SPED 404 Seminar in Student Teaching

Current trends and developments in public education are explored. Particular attention is given to classroom management and other problems confronting student teachers. Conducted during the semester of the student teaching experience. Corequisite: SPED 403

1 credit

SPED 410 Counseling and Vocational Guidance for Handicapped Children

A study of existing rehabilitation resources in the community. The contributions and services of the rehabilitation team to the child and his family. The availability of these services and guidance as to their ušes are stressed.-For seniors only

SPED 411 Prescriptive Teaching

Methods for applying various special teaching techniques to the diagnosis and education of the child with multiple handicaps. Integration of perceptual, motor, sensory and management approaches. A practicum comprises a part of this course. For seniors only

SPED 412 Education of the Emotionally and Socially Maladjusted

The identification and classification of emotionally disturbed and socially maladjusted children. A study of the organization of classes and teaching methods. A small number of seniors enrolled have the option of assignment to a special section in conjunction with the "therapeutic tutoring pro-gram." Information relating to this program is provided in a bulletin available from the department. The program may not be offered every semester.

For seniors only

SPED 413 Education of the Neurologically impaired and Physically Handicapped Presents learning problems stemming from physical handicaps and neurological impairment in children with basically normal intelligence and sensory abilities. Includes therapies, teaching techniques, procedures for assessment of progress and an

exploration of basic and recent literature. For seniors only

SPED 430 Education of the Exceptional

Planning and organizing instructional materials and activities. The use of environmental resources in working with mentally, physically or emotionally exceptional children. The adaption of programs to the needs of exceptional children in regular classes and in special groups. For nonspecial education majors.

SPED 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of **Movement Sciences** and Leisure Studies

Professor—T. Jable

Associate Professors-L. Dye, S. Laubach (chairperson), W. Myers, V. Overdorf, S. Silas Assistant Professors—S. Becker, P. Huber, A. Raidy

Instructor-F. Flaster

Emeritus—M.J. Cheesman, M.L. Fonken

The Department of Movement Sciences and Leisure Studies offers a major program leading to the bachelor's degree in physical education, with the opportunity to concentrate in adapted physical education, athletic training, elementary and secondary physical education, coaching and sports officiating, exercise physiology, recreation and leisure studies, aquatics and dance. In addition to the core courses and performance skills, at least one concentration must be completed to meet degree requirements. Field laboratory experiences include pre-internship, intra-departmental practicum and student teaching opportunities.

Students seeking certification in both health and physical education are afforded this opportunity through interdisciplinary studies. Minors are offered in athletic training, adapted physical education, dance, exercise physiology, recreation and physical education. Elective courses are offered to satisfy, in part, the general education requirement and to fulfill recreational outlets. Extensive co-curricular programs in dance, intramurals and recreation are open to all undergraduates.

Assessments and Retention

Providing students with continued advisement and academic counseling is of major concern to the Department of Movement Sciences and Leisure Studies. The faculty is also concerned about standards of quality in its graduates.

The department maintains a performance standard by which students are reviewed for continuing eligibility as majors. Details of this performance standard are provided by department advisors to those who intend to major in physical education.

	OR REG	UIREMENTS 43 cree RSES 29 cree	
BIO	116	Basic Anatomy and Physiology I	3
BIO	117	Basic Anatomy and Physiology II:	3
PE .	170	Introduction to Move- ment Sciences and Leisure Studies	. 1
PE	301	Standard First Aid and Personal Safety	. 2
PE	302	Cardio-Pulmonary Resuscitation	1
PE	320	History and Philosophy of Sport and Physical Activity	3
PE PE PE	380 382 388	Kinesiology Physiology of Exercise Adapted Physical Educa- tion	3 3

PE	411	Concepts and Principles of Motor Learning	3		
PE	413	Psycho-Social Dimensions of Movement and Sport	4		
PE	470	Tests and Measurements	,3		
		DUCATION *14 cred	atits		
PE	156	Physical Education Per-	2		
	100	formance Skills I			
PE	157	Physical Education Per-	2		
		formance Skills II			
PΕ	256	Physical Education Per- formance Skills III	2		
PE	257	Physical Education Per-	2		
FE	237	formance Skills IV	2		
PE	356	Physical Education Per-	2		
v		formance Skills V	_		
PE	357	Physical Education Per-	2		
		formance Skills VI			
PΕ	456	Physical Education Per-	2		
		formance Skills VII			
*Red	*Required of all majors				

PHYSICAL EDUCATION

Concentrations for Majors in Movement Science

35 credits

CERTII	ICATIO	ON REQUIREMENTS* (K-12)	,
PSY	210	Developmental Psychology	3
or		•	
ELED	210	Growth Processes of	3
		the School-Age Child	
PE	383	Curriculum and Teaching	3
		Physical Education in	
		the Elementary School	
PE	384	Curriculum and Teaching	3
	•	Physical Education in	
		the Secondary School	
PE	391	Practicum I	્રે1
PE	392	Practicum II .	.1
PE	405	Seminar in Physical'	3
		Education	
EDUC	415	Senior Teaching	12
		Internship	
RLA	329	Foundations of Reading	3
RLA	330	Reading Strategies for	3.
		the Content Areas	

Education Elective (Human Relations) In addition, a speech competency test must be passed or an appropriate speech course, recommended by a speech pathologist, must be completed.

Students must have a 2.5 GPA in the major and overall to be eligible for teacher certification. See p. 35 for additional certification requirements.

*PSY 110 and HSC 120 must also be completed for certification, but may be applied to fulfill general education requirements.

HEALTH EDUCATION 24 credits **CERTIFICATION ENDORSEMENT**

This certification program is for physical education teaching majors only. 170 302 Basic Microbiology BIO BIO Basic Genetics 3 **HSC** 200 Consumer Health 3 **HSC** 300 Community Health 3 **HSC** 320 Nutrition HSC Methods and Curriculum

in School and

Education

HS0 SO	- , -	Human Sexuality Marriage and the Family	3 3
	APTED PHUCATION	IYSICAL 15 cred	lits
Αll	course p	orerequisites must be fulfilled	1 .
PE	360	Physical Education for the Orthopedically	3
•			
PE	362	Handicapped Physical Education for the	3
PE	302	Physical Education for the Mentally Retarded	3
PE	390	Introduction to	3
1 -	070	Therapeutic Recreation	J
PE	460	Physical Education for	3
		Persons with Perception	
		Problems	
PΕ	462	Progress in Exercise	3
	3	and Recreation for Older	
		Persons	

		•	
All co	ourse p	orerequisites must be fulfilled	
HSC	320	Nutrition	3
PE	301	Standard First Aid and	2
•		Personal Safety	
PE.	302	Cardio-Pulmonary Re-	1
		suscitation	
PE.	381	Prevention and Care of	3
		Athletic Injuries	
PE	393	Physical Education for the	3
		Orthopedically Handi-	
- -		capped_	_
PE	397	Athletic Training Modalities	2
PE	398	Biomechanics of Athletic	2
		,Injuries	
PE•	415	Advanced Athletic Train-	3
		ing	_
PE	497	Field Work in Athletic	2
		Training	_
PE	498	Seminar in Athletic	2
,		Training	•

23 credits

ATHLETIC TRAINING*+

*To be an athletic trainer in a public school in New Jersey, teacher certification is required. Students with teacher certification in areas other than physical education must complete the requirements as indicated above.

†The athletic training program is accredited by the National Athletic Trainers Association.

DANCE

(Also offered as a minor open to all stu-

aenis	s)	16	credits
PE	131	Modern Dance I	2
PE	132	Modern Dance II (pre- requisite Modern I)	2
PE PE	134	Ballet I	2
ΡÈ	135	Ballet II (prerequisite Ballet I)	2
PE	373	Choreography (pre- requisite 2 semesters of modern dance and/or ballet)	3
PE	376	Dance Performance Workshop I (registration by audition only)	2
,		Electives	3

Note: First-level courses in ballet or modern dance may be omitted if the student exhibits a high level of technical proficiency and theoretical knowledge. This is determined by

Community Health

written exam and audition only. If high enough technical achievement is established, the student may go on to a second-level course. The credits may be compensated for by enrollment in another dance elective.

EXER	CISE PI	HYSIOLOGY 15 c	redits
HSC	320	Nutrition	3
PE	301 .	Standard First Aid and Personal Safety	2
PE	302	Cardio-Pulmonary Resuscitation	1
PE	481	Leadership Training for Exercise Programs	3
PE	483	Introduction to Graded Exercise, Testing and Prescription	3
PE	484	Exercise Testing and Prescription Internship I	1
PE	485	Exercise Testing and Prescription Internship II	1
PE	486	Exercise Testing and Prescription Internship III	- 1

Note: Upon completing this minor, students are eligible to take the certification test given by the YMCA or the American College of Sports Medicine.

RECREATION AND 18 credits LEISURE STUDIES

(Also offered as a minor open to all students)

REC	110	Foundations and Pro-	3
		grams in Recreation	
REC	290	Camp Counseling	3
REC	291	Recreational Leadership	3
REC	300	Introduction to Thera-	3
		peutic Recreation	
REC	390	Field Work in Recreation	3
REC	400	Organization and Admin-	3
		istration of Recreation	
		Programs	
		-	

COAC	CHING	AND OFFICIATING 12 cred	its
PE	381 .	Prevention and Care of Athletic Injuries	3
PE	400	Organization and Administration of Athletics	3
Plus 6	credit	ts from among the following:	
PE	327	Coaching and Officiat-	2
DE.	200	ing Swimming	^
PE	328	Coaching and	2
		Officiating Track and Field	
PE	333	Coaching and	2
FE	333	Officiating Tennis	2
PE	337	Coaching and Officiat-	2
, L	007	ing Wrestling	_
PE	344	Coaching and Officiat-	2
	0	ing Soccer	_
PE	345	Coaching and Officiat-	2
		ing Field Hockey	
PE	346	Coaching and Officiat-	2
		ing Basketball	
PE	349	Coaching and Officiat-	2
		ing Football	
PE	351	Coaching and Officiat-	2
		ing Baseball (Softball)	_
PE .	353	Coaching and Officiat-	2
		ing Volleyball	

ĶΕ	301	ing Gymnastics (Women)	2
or PE	362	Coaching and Officiating Gymnastics (Men)	3
AQU	ATICS	12 cr	edits
PE	125	Basic Skin and Scuba Diving	2

Coaching and Officiat

١.	120	Scuba Diving	2
PE	233	Advanced Life Saving	2
PE	234	Water Safety Instruction	2
PE	236	Administering and Conducting Recreational Water Activities and Programs	2
PE	237	Pool Management	2
PE	327	Coaching and Officiating Swimming	2

MINOR REQUIREMENTS

All course prerequisites must be met before admission to minor concentrations. Please see advisors for appropriate prerequisites.

Courses

DE

Unless otherwise noted, all courses are for 3 credits.

Movement Sciences

The following courses are open to all students. 100 Target Archery

PE	100	Paralas la tara	2
PE	101	Badminton	2
PE	102	Bowling	2
PE	103	Golf .	2
PE	104	Tennis I	2
PE	105	Tennis II	2
PE	106	Fencing	2 2 2 2 2 2
PE	107	Tumbling and Gym-	2
		nastics	
PE	108	Volleyball	2
PE	109	Combatives	2
PE	110	Karate	2
PE	111	Judo	2
PE	116	Afro-Caribbean Dance	2 2 2 2 2
PE	117	Folk, Square and	1
		Ballroom Dance I	
PE	118	Folk, Square and	1
		Ballroom Dance II	
PE	119	Basic Movement	2
PE	120	. Personal Fitness	2
PE	121	Horseback Riding	2
PE	122	Orienteering	2 2 2 2 2 2 2
PE `	123	Backpacking	2
PĒ	124	Cycling	2
PE	125	Basic Skin and Scuba	2
	0	Diving	_
PE	126	Racquetball	2
PE	150	Personal Implications	2
	.00	of Exercise, Fitness	. ~
		and Rest	

PE 130 Introduction to the Art of Dance

Elementary technique, improvisation, studies in composition, lectures, films and discussions on dance theory, philosophy and current trends of dance. Provides a basic background with which to appreciate dance as an audience. Geared for students without previous dance experience.

PE 131 Modern Dance I

An introductory course in contemporary dance. Emphasis on developing the student's appreciation of the art of dance

through experiential understanding of the movement principles of the Humphrey-Weidman-Limon School of modern dance. 2 credits

PE 132 Modern Dance II

Continuation of the study of Humphrey-Weidman-Limon based modern dance. Relates its principles to teaching, performing, recreation, therapy or life experience. 2 credits

PE 134 Ballet I

Theory and performing technique of classical ballet at the beginning level. Based on the Royal Academy of Dancing system of training.

2 credits

PE 135 Ballet II

Theory and performing technique of classical ballet at the advanced-beginner level. Based on the Royal Academy of Dancing syllabus.

2 credits

PE 150 Personal Implications of Exercise, Fitness and Rest

A study of the general nature and structure of exercise and fitness as it pertains to the individual. The purpose of this course is to assist the individual in gaining an understanding of the effects of exercise, sports and physical activity on the physical and psychological self. Emphasis is placed on the physiological, sociological and biological development of the individual student through planning a personal pro-

PE 156 Physical Education Performance Skills 1

Introduction to skill development and basic concepts: soccer, speedball, field hockey, basketball, folk dance.

2 credits

PE 157 Physical Education Performance

Introduction to skill development and basic concepts: volleyball, square dance, ballroom dancing, softball, track and field. 2 credits

PE 170 Introduction to Movement Sciences and Leisure Studies

Familiarizes the student with the movement science and leisure studies program; possible careers that require knowledge about movement sciences and leisure studies. Students visit various professional sites in the field.

1 credit

PE 198 Basic Conditioning

Students learn about and experience conditioning programs for fitness and/or various sports activities. Students work with the professor to design a program suitable for their individual needs.

1 credit

PE 200 Beginning Tennis:

Students are introduced to the basic skills of tennis which enable them to play a limited game.

1 credit

PE 201 Tumbling

This course provides a solid foundation for all gymnastic related skills. It nurtures balance and kinesthetic awareness in the student through the medium of gymnastics. The course provides a coeducational activity suitable for students from elementary school through college. Singles, doubles, group tumbling and balancing, and the use of the springboard and trampoline are utilized for this purpose.

PE 204 Elementary Swimming

This course equips the individual with basic water safety skills and knowledge in order to make one reasonably safe while in, on or about the water.

2 credits.

PE 206 Track and Field

Designed to introduce events in track and field, their techniques and performance.

1 credit

PE 207 Wrestling

Basic knowledge of various takedowns and offensive and defensive moves. The history of wrestling is discussed as are various exercises, equipment and rules.

1 credit

PE 208 Basketball

Development of the basic fundamentals and skills of the game of basketball.

1 credit

PE 210 Football

Provides future teachers with knowledge and experience in touch and flag football and the basic fundamentals of football as they relate to instructional programs. 1 credit

PE 211 Softball

Develops proficiency in softball skills and a working knowledge of the rules and strategies of the game. 1 credit

PE 212 Baseball

Basic fundamentals of throwing, hitting, running and catching are learned, as well as player responsibilities for each position. 1 credit

PE 213 Volleyball

Designed for students with little or no experience with the game. Fundamental skills, strategy and rules are stressed.

1 credit

PE 214 Field Hockey

An introduction to the basic skills of field hockey which enables students to play the game with reasonable success.

1 credit

PE 215 Soccer

Elementary skills, strategies and rules of soccer are learned by the student.

1 credit

PE 216 Fencing

An introduction to skill's and techniques of foil fencing.

1 credit

PE 217 Modern Jazz Dance Technique

Theory and performance of modern jazz dance technique. 2 credits

PE 218 Beginning Tap Dance

A basic course in theory and practice of tap dance, an American art form. 2 credits

PE 221 Archery

Development of skill in target archery and a survey of other popular forms of archery. 1 credit

PE²²² Badminton

Development of skill in badminton, including basic strokes and playing strategy.

1 credit

PE 223 Golf

The development of grip, stance, swing and putting. Elementary game strategy is experienced. Lab fee required.

1 credit

PE 230 Recreational Games

Development of performance proficiency in bowling. Recreational games include such activities as shuffleboard, quoits, horseshoes, table tennis, frisbee, non-competitive and "new games." Lab fee required.

1 credit

PE 232 Racquetball

Fundamental skills, strategies and rules. 1 credit

PE 233 Advanced Lifesaving

Techniques of rescuing individuals from the water. Instruction in self-rescue and the use of equipment. Advanced lifesaving certificates are awarded upon successful completion of criteria established by American Red Cross.

Prerequisite: PE 204 or permission of the instructor 2 credits

PE 234 Water Safety Instructor

The instruction of advanced lifesaving and the nine strokes of swimming. Emphasis is placed on the student's being able to instruct other students in the class. All phases of swimming instruction are covered. Water Safety Instructor Certificate is awarded upon successful completion of criteria established by the American Red Cross.

Prerequisite: PE 233 2 credits

PE 236 Administering and Conducting Recreational Water Activities and Programs

A study of the various recreational activities conducted at pools, lakes and shore areas. The individual gains an understanding of the water and the types of programs best suited to each environment.

2 credits

PE 237 Pool Management

A study of the general principles of pool management. Emphasis on the technical aspects of pool equipment and machinery as well as organizational procedures for directing the pool.

2 credits

PE 239 Bowling and Team Handball

Develops performance proficiency in bowling and introduces skills in team handball. Lab fee required.

1-credit

PE 240 Jogging and Orienteering

An introduction to orienteering skills. Participation in orienteering and jogging. Exercise principles and the mechanics of running are presented.

1 credit

PE 243 Lacrosse (Women)

Introduction to the basic skills, teaching techniques and development of rules and strategies in women's lacrosse. Although the course is taught according to women's strategies and rules, it is also open to men. 2 credits

PE 255 Apparatus

The concepts of beginning to advanced gymnastics skills for both men and women, the safety and operation of all gymnastics equipment, progressions for all skills performed on the apparatus and creative utilization of the apparatus.

PE 256 Physical Education Performance Skills III

Introduction to skill development and basic concepts: football, lacrosse, conditioning, tumbling.

2 credits

PE 257 Physical Education Performance Skills IV

Introduction to skill development and basic concepts: gymnastics, tennis, golf. 2 credits

PE 265 Self-Defense

Exposes students to specific situations that could lead to danger and teaches them strategies for eliminating, recognizing and avoiding dangerous situations.

1 credit

PE 271 Teaching Dance

Prepares students to teach dance classes in schools and in recreational organizations. Deals with the "how" and "why" of dance movement.

Prerequisite: PE 131 or 134 or permission of the instructor

2 credits

PE 275 History of Dance

A survey course on dance as part of world history from pre-Christian civilization to contemporary events. Studies from the early fifteenth century (when dance manuals first appeared) are emphasized. Participation in Renaissance and Baroque period dances. Readers of Labanotation may use the language of dance as a research method.

PE 301 Standard First Aid and Personal

Develops an individual's first aid capabilities. Provides the skills of the initial emergency care necessary to sustain and maintain life support until qualified medical personnel arrive. The current American Red Cross instructor's manual and updated tests for standard first aid and personal safety are the bases for the course. Students who successfully complete the course will receive a certification from the American National Red Cross. 2 credits

PE 302 Cardio-Pulmonary Resuscitation

The correct techniques of external chest compression and mouth-to-mouth resuscitation are stressed. Students learn to recognize early warning signs, risk factors and symptoms. Students who successfully pass the course, after being evaluated by an authorized CPR instructor, will receive certification through the American National Red Cross.

1 credit

PE 310 Health and Physical Education Programs in the Elementary School

Focuses on the objectives and philosophy of health and physical education programs in today's elementary schools. Student lesson plans are required. Participation by students in a spectrum of physical education activities. Required for elementary education majors

PE 311 Movement Education

A different approach toward teaching where a more individualized program is set up within the larger group (class). Each student becomes aware of the basic movements of the body in relation to time, space and force around his own rate according to ability level. 2 credits

PE 320 History and Philosophy of Sport and Physical Activity

The study of physical activity and sport from pre-literate times to the present day. Emphasis on nineteenth and twentieth century sports and physical education.

PE 327 Coaching and Officiating **Swimming**

Fundamentals of aquatic activities through analyzing strokes and teaching procedures; planning and officiating swimming meets; organizing and administering an aquatic program.

Prerequisite: PE 204 or permission of the instructor

2 credits

PE 328 Coaching and Officiating Track and Field

Techniques and methods of coaching and officiating. Track and field events are emphasized. Laboratory experiences in officiating and coaching are afforded the student. Evaluation of facilities and equipment is included.

Prerequisite: PE 225 or PE 157 or permission of the instructor 2 credits

PE 333 Coaching and Officiating Tennis

Designed to make students knowledgeable about the process involved in selecting and coaching a tennis team. In addition, the techniques necessary to become a rated tennis official are included. Prerequisite: PE 200 or PE 257 or permission of the instructor 2 credits

PE 337 Coaching and Officiating Wrestling

Designed to prepare wrestling officials for certification through the classroom and practical application. The areas of team coaching, officiating, recruiting and meet organization are also included.

Prerequisite: PE 207 or PE 356 or permission of the instructor 2 credits

PE 343 Coaching and Officiating Softball

Techniques and principles of coaching and officiating softball are emphasized along with laboratory experience for officiating and coaching.

Prerequisite: PE 211 or PE 157 or permission of the instructor 2 credits

PE 344 Coaching and Officiating Soccer

Techniques and principles of coaching and officiating soccer. Laboratory experiences are provided for officiating and coaching.

Prerequisite: PE 215 or PE 156 or permission of the instructor 2 credits

PE 345 Coaching and Officiating Field Hockey

Techniques and principles of coaching and officiating field hockey are stressed. Laboratory experiences are provided for officiating and coaching.

Prerequisite: PE 214 or PE 156 or permission of the instructor 2 credits

PE 346 Coaching and Officiating Basketball

Fundamental and advanced skills as well as theories of offense and defense are learned by the student. Techniques of officiating and organizing and administering a basketball team in a high school program are stressed.

Prerequisite: PE 208 or PE 156 or permission of the instructor 2 credits

PE 349 Coaching and Officiating Football

Prepares students for coaching football in high schools. Fundamentals, strategy of offensive and defensive play, purchase and care of equipment and other administrative problems are emphasized.

Prerequisite: PE 210 or PE 256 or permission of the instructor

2 credits

PE 351 Coaching and Officiating Baseball

Techniques of coaching, officiating, purchase and care of equipment and playing areas are emphasized.

Prerequisite: PE 212 or permission of the instructor

2 credits

PE 353 Coaching and Officiating Volleyball

Advanced offensive and defensive team strategies, rules and officiating. Includes laboratory experiences in coaching and officiating. The student is also exposed to various teaching and evaluating techniaues.

Prerequisite: PE 213 or PE 157 or permission of the instructor

2 credits

PE 356 Physical Education Performance Skills V

Introduction to skill development and basic concepts: modern dance, badminton, wrestling, self-defense.

2 credits

PE 357 Physical Education Performance Skills VI

Introduction to skill development and basic concepts: racquetball, swimming, archery, orienteering, new games. 2 credits

PE 361 Coaching and Officiating **Gymnastics**

Intended for the future coach and/or judge in gymnastics. Film analyses and judging tests are offered.

Prerequisite: PE 255 or PE 257 or permission of the instructor

2 credits

PE 370 Folk and Square Dance Leadership

Advanced skills, including calling square dances, teaching folk dances and organizing programs for folk and square dance events.

Prerequisite: PE 117 2 credits

PE 373 Choreography

Dance composition on a beginning level for teachers, recreation leaders and performers.

Prerequisite: Four credits in modern dance and/or ballet

PE 375 Advanced Choreography and Dance Production

Choreography on an advanced level. Study of production techniques for dance. Field experience choreographing and producing a dance concert.

Prerequisite: PE 373

PE 376 Dance Performance Workshop I

Performance on an intermediate/ advanced technical level and choreography in a workshop situation. Emphasizes field experience performing, choreographing and producing a dance concert for educational purposes.

Prerequisite: Registration by audition only. 2 credits

PE 377 Dance Performance Workshop II

A continuation of Dance Performance Workshop I. The student takes a role of creative leadership in choreography and production.

Prerequisite: PE 376

2 credits

PE 380 Kinesiology

An analysis of human motion: articulation of the various body joints, functions of muscles. Analysis of physical education activities from these perspectives.

Prerequisite: BIO 118

PE 381 Prevention and Care of Athletic Injuries

Lecture and laboratory work concerned with the prevention and care of common athletic injuries: preventing sprains, strains, bruises, friction burns and blisters. Other first aid methods such as artificial respiration, hemorrhage, fracture, unconsciousness are also covered. The responsibilities and legal limitations of treatment are emphasized. Prerequisites: BIO 118, PE 380

PE 382 Physiology of Exercise

The body's physiological response to exercise with consideration to age, sex, physical fitness and environmental stresses. The laboratory provides experiences that replicate theoretical constructs.

Prerequisites: BIO 118, PE 380

PE 383 Curriculum and Teaching Physical Education in the Elementáry School

The principles of curriculum development in elementary school physical education programs. Students learn how to teach physical education activities designed for elementary school children. Taken concurrently with PE 391.

Prerequisite: Admission to teacher certification program.

PE 384 Curriculum and Teaching Physical Education in the Secondary School

The physical-education teacher's role in facilitating the adolescent student's growth and development through movement activities. A variety of teaching styles are explored. Includes administrative duties and responsibilities of a physical-education teacher at the secondary level.

Taken concurrently with PE 392. Prerequisite: Admission to teacher certifica-

tion program.

PE 385 Organization and Administration of Intra- and Extramural Programs

Concentrates on the organization of tournaments, student leadership, budget and scheduling of co-curricular events. Examines current recommendations and rules governing the amount, type and intensity of competition for different age groups and sexes. Practical experience is gained through organizing and administering tournaments and special events. 1 credit

PE 386 Rhythmic Activities and Games for Children

Activities and approaches to creative movernent and basic rhythmic experiences. Games, relays and related group activities appropriate for children's developmental needs are covered. 2 credits

PE 388 Adapted Physical Education

A general study and application of adaptive techniques and procedures for handicapped children in physical education. A practicum is taken concurrently with this course.

Prerequisite: BIO 118

PE 391 Practicum I—Elementary School Experience

In the pre-student teaching experience, the student is assigned to work in a school for the purpose of observing and assisting the experienced physical educator. Experiences include working with individuals and small groups and the teaching of the entire class.

1 credit

Taken concurrently with PE 383.

Prerequisite: Admission to teacher certification program.

PE 392 Practicum II—Secondary School Experience

This experience in the school is correlated with methods of teaching physical education and human movement. Primarily, devoted to teaching classes and small groups. Taken concurrently with PE 384. Prerequisite: PE 391 1 credit

PE 393 Physical Education for the Orthopedically Handicapped

Familiarizes prospective teachers with various types of physical handicaps. Exercises, games and activities for the correction or treatment of specific disabilities. A 15 to 20-hour practicum is involved.

Prerequisite: PE 388

PE 394 Physical Education for the Mentally Retarded

Identifies cause and nature of mental retardation. Practice in implementing group and individual physical-education programs for the mentally retarded child. Practicum required.

Prerequisite: PE 388

PE 395 Physical Education for the Perceptually Impaired and/or Emotionally Disturbed

Identifies nature and cause of impairment. Practice in implementing physical education programs for impaired persons. Practicum required.

Prerequisite: PE 388

PE 396 Conducting Programs in Exercise and Recreation for Older Persons

Prepares students to plan and conduct basic physical activity and exercise programs for the elderly. Although the emphasis is on exercise routines and fitness programs, students also learn to lead older adults in rhythmic and dance activities and recreational games. A three-week training period is followed by a twelve-week practical experience at a senior citizen site (nutrition site, day care center or some other senior citizen center). Weekly seminars are held in conjunction with the practical experiences.

PE 397 Athletic Training Modalities

Practical experience in the athletic training room under the supervision of a qualified athletic trainer. Student learns various techniques of treatment and taping, plus the use of basic modalities with whirlpool, infrared lamp and hydro-collator. A minimum of 200 hours is required.

Prerequisite: PE 381 with a grade of "A" or "B"

2 credits

PE 398 Biomechanics of Athletic Injuries

The second practical experience in the athletic training room under the supervision of a qualified athletic trainer. Focuses on advanced techniques of treatment and taping, the use of advanced modalities in diathermy, the medcosonolator and ultrasound and electrical stimulation. Students apply these advanced techniques by assisting with the athletic teams. A minimum of 200 hours is required.

Prerequisite: PE 397 2 credits

PE 400 Organization and Administration of Athletics

Constructed as a coordinator of all courses dealing with the program of athletics. Emphasis on the organization of the program and its administration in relation to all personnel involved.

PE 405 Seminar in Physical Education

Current trends and development in public education are explored. Particular attention is given to classroom management and other problems which confront student teachers. The course is conducted during the semester of the student-teaching experience.

PE 411 Concepts and Principles of Motor Learning

Acquaints the student with the concepts and principles involved in motor learning with particular consideration of the implications for teaching.

Prerequisite: BIO 118

PE 413 Psycho-Social Dimensions of Sport

A study of sport in relation to the concepts, theories and principles of psychology and sociology. Enables the student to understand the human organism's involvement in sport and physical activity and the relationship of sport to culture and society. Prerequisites: PSY 110, SOC 110

PE 415 Advanced Athletic Training

Lecture and laboratory experiences concerned with care and prevention of athletic injuries using advanced techniques of treatment and rehabilitation. Includes professional ethics, measurement and evaluation, current research, advanced exercise and advanced taping techniques. Prerequisities: PE 381, 393, HSC 320

PE 456 Physical Education Performance Skills VII

Introduction to skill development concepts: fencing, bowling, team handball, recreational games, outdoor education.

PE 470 Tests and Measurements

A study of the role of and evaluation in physical education. The organization and administration of a testing program. Also, appropriate statistical methods used in a testing program.

PE 473 Labanotation

Reading and dancing repertory from Labanotation scores. Helps students understand movement, improve performing ability, provide written and spoken terminology.

Prerequisites: PE 132, 135

PE 475 Laban Movement Analysis

Analysis and application of Laban effortshape theory through movement, experience and observation.

PE 480 Senior Seminar

An elective course for senior majors. Specialized subjects in physical education and recreation are developed by the instructor and the student.

PE 481 Leadership Training in Exercise Programs

Students learn to organize, lead and supervise programs of physical exercise and conditioning in industry, business, recreation, education and athletic settings. Also, how to use results of diagnostic tests to prescribe appropriate activities for a wide variety of populations.

PE 482 Advanced Exercise Physiology

Advanced concepts concerning the physiological adaptations of man and animals to exercise. With these concepts established, the student then explores the more controversial issues of exercise physiology.

PE 483 Introduction to Graded Exercise, Stress Testing and Prescription

Theoretical information about the administration and application of a graded exercise stress test.

1 credit

PE 484 Exercise Testing and Prescription Internship I

Practical information about the administration and application of a graded exercise stress test and an exercise prescription.

Prerequisite: PE 382.

1 credit

PE 485 Exercise Testing and Prescription Internship II

A second-level experience in which students obtain practical Information about the administration and application of a graded exercise stress test and an exercise prescription.

Prerequisite: PE 382

1 credit

PE 486 Exercise Testing and Prescription Internship III

A third-level experience in which students obtain practical information about the administration and application of a graded exercise stress test and an exercise prescription.

Prerequisite: PE 382

1 credit

PE 497 Fieldwork in Athletic Training

An advanced practical experience in which students combine all the skills and techniques of Internship I and II, and are taught how to function as the primary sports trainer for a team other than football. Also includes the selection, construction had fitting of orthotics. Minimum of 200 hours.

Prerequisite: PE 398

2 credits

PE 498 Seminar in Athletic Training

Culminating practicum. The student serves as an athletic trainer in a designated local high school in cooperation with the local and college supervisor. Minimum of 200 hours.

Prerequisite: PE 497

2 credits

PE 499 Independent Study

As approved and to be arranged. 1-3 credits

Leisure Studies

RÈC 110 Foundations and Programs in Leisure Studies

A study of the nature, scope, history and philosophy of recreation: its meanings, the services rendered in various settings, the relationship to allied disciplines and its scientific foundations.

REC 290 Camp Counseling

A study of the nature and duties of counseling in private, municipal and organizational camps. Techniques of group work and the planning, organizing and executing of programs are included.

REC 291 Recreational Leadership

A study of methods, materials and skills necessary for persons preparing to assume leadership roles in recreation programs.

REC 292 Programs in Recreation

The study of public, voluntary and private recreation programs sponsored by governments, education, industry and other organizations. Considerations are given to administration, financial support, facilities and leadership.

REC 300 Introduction to Therapeutic Recreation

Provides an in-depth study of therapeutic recreation for the ill and handicapped in various settings. Emphasis on the role of recreation as a means of therapy in rehabilitation in these settings. Internship experience is undertaken.

REC 305 Community Recreation

A study of community recreation with emphasis on history, theory and philosophy; governmental involvement; other social institutions; and current principles and practices.

REC 306 Recreation Facilities and Management

A study of the design and management of facilities and areas for leisure enjoyment, including use of existing facilities, feasibility studies, site selection, principles of planning, construction and maintenance procedures.

REC 390 Field Work in Recreation

An internship for the student to observe techniques of and practice in a recreational setting. The student is assigned to a recreation program.

REC 400 Organization and Administration of Recreation

The exploration of major problems and practices in the organization and administration of recreational programs in various settings.

REC 482 Leisure Crafts and Activities in Recreation

A study of leisure crafts through creative activities with a multiplicity of craft media. Focuses on program implementation with various types of groups.

The School of **Health Professions** and Nursing

Suzanne Law Hawes, Dean Office: Hunziker Wing 120

The School of Health Professions and Nursing offers bachelor's degrees in community health education, nursing and speech cor-

Programs in this school prepare students for professional practice and educational roles in health care agencies and schools. The school also offers courses in health for students in other majors.

Department of Health Science

Professors: S. Lisbe (chairperson), M. Marshall

Associate Professor: A. Hudis

Assistant Professors: J. Levitan, G. Sorock, P.

Instructors: L. Carter, K. Gelmacher,

D. Watter

The Department of Health Science offers a major program leading to a bachelor of science degree in community health and/or school health education. Certification in school health education is also available for physical education majors. The major in community health is designed to prepare individuals to work with professionals in health and allied health fields and with the community in planning, implementing and evaluating the educational component of community health services. Health educators are employed by local, state, federal and voluntary health agencies, community health centers, hospitals, clinics, health maintenance organizations and private industry.

MAJC	R REG	QUIREMENTS 45 cr	edits
HSC	200	Consumer Health	3
HSC	300	Community Health	3
HSC	310	Health Care Systems	3
HSC	315	Human Disease	3
HSC	320	Nutrition	3
HSC	330	Human Behavior and	3
		Health Education	
HSC	351	Methods and Curriculum	3
		in School and Communi-	
		ty Health Education	
HSC	361	Research Analysis and	3
		Evaluation in Health	_
HSC	400	Epidemiology	3
HSC	450	Health Administration	3
HSC	490	Human Sexuality	3
HSC	491	Alcohol and Drug Abuse Problems	3
HSC	497	Field Work in Community	8
		Health	
HSC	498	Seminar in Community Health	1

Corequisites 24 credits			
BIO	112	General Anatomy and	4
		Physiology I	
BIO	113	General Anatomy and	4
		Physiology II	
BIO	170	Basic Microbiology	4
BIO	302	Human Genetics	3
MATH	110	Elementary Statistics	3
PSY	110	General Psychology	3
PSY	210	Developmental Psy-	3
		chology	

TEACHER CERTIFICATION REQUIREMENTS

	Z/ Crec	1115
EDUC 333	Individualized Instruction	3
EDUC 403	Culminating Field	8
	Experience	
HSC 321	Nutrition in Early Child-	3
	hood (in lieu of HSC 320)	
HSC 404	Seminar	1
LMS 323	Modern Educational	3
	Media	
RLA 329	Foundations of Reading	3
RLA 330	Reading Strategies for	3
	the Content Areas	
URED 482	The Inner City Child and	3
	His Environment	

Courses

Unless otherwise noted, all courses are for 3 credits.

HSC 120 Current Health Issues

Health problems affecting college students are selected by the students and discussed on a problem-solving basis. Special emphasis on human sexuality, mental health, stimulants and depressants, environmental health and consumer health.

HSC 200 Consumer Health

Consumer problems viewed in terms of economic, social, psychological and biological consequences. Topics include health insurance, life insurance, medicaid, over-the-counter drugs, cosmetics, health fads and quackery, consumer protection agencies, sales frauds and evaluation of products.

HSC 210 Women's Health

Facts, feelings and practical aspects of women's attitudes toward themselves and their bodies. Topics include women's development, mental health, female sexuality, the menstrual cycle, contraception, abortion, pregnancy and birth, gynecological care and self-help procedures, cancer detection and treatment, menopause, nutrition, aging, rape and selfdefense.

HSC 300 Community Health

Organization and function of community health agencies and their relation to the school and community health programs. Includes discussion on chronic and communicable disease, pollution, sanitation programs, accidents, food handling and preservation, and consumer health. Includes field work.

HSC 310 Health Care Systems

An overview of our present health care system. Class discussions and reading assignments focus on identifying the changing roles of traditional health service organizations and health professionals, and the sociopolitical and technical pressures that lead to these changes, in addition, the more recently developed health service and planning agencies and health professional occupations are identified and discussed in terms of their efforts to restructure the organization, finance and delivery of health services.

HSC 315 Human Disease

The physical and social determinants of the major diseases affecting U.S. citizens, especially New Jersey residents. Prevention measures and symptomatology, sequellae and appropriate intervention strategies are identified and discussed.

HSC 320 Nutrition

A foundation study of human nutrition emphasizing its relationship to optimum physical and emotional health. Includes basics of sound nutrition, requirements of various food elements, diet planning, diet patterns for specific age groups, nutritional fads and weight control.

HSC 321 Nutrition in Early Childhood

Basic nutrition concepts and knowledge related to the particular needs of students in early childhood education. Emphasis on educational application, especially methodology, analysis and development of nutrition programs in schools and other child development programs.

HSC 322 Nutrition for Health Professionals

Introduction to human nutrition that emphasizes the application of basic nutrition information in the community and health delivery system. Includes fundamentals of nutrition science, relationship between nutrition and individual well-being, assessment of nutrition status, nutrition through the life span, consumer nutrition concerns and therapeutic nutrition. Prerequisite: Either chemistry, biology, microbiology or permission of the instructor.

HSC 330 Human Behavior and Health Education

A study of the social, psychological and cultural determinants of health behavior and consideration of their meaning for school or community settings. Conditions and phenomena that affect people's acceptance of health information. Health counseling skills are emphasized.

HSC 351 Methods and Curriculum in School and Community Health Education

Principles and procedures for planning and evaluating health education experiences. Identification of necessary concepts in the development of the health education component of programs and criteria for heir inclusion. Also, techniques and skills needed for teaching large and small groups.

HSC 360 Biostatistics

An elementary exposition of statistics with emphasis on its application to health sciences. Includes inferential as well as descriptive statistics; covers correlation, regression, binomial and normal distributions, estimation, confidence intervals, testing of hypotheses for population means, t test and Chi-square test.

HSC 361 Research Analysis and Evaluation in Health

Basic aspects of research methodology, basic source materials in health and public health. Experiences in critical reading of professional literature. Basic statistical techniques.

Prerequisite: HSC 360

HSC 370 Concepts and Issues of Aging

Changes in certain aspects of health during the middle and later years including changes in anatomy and physiology, in nutritional requirements, in sensorium. Aging and sexuality. Common causes of mortality and morbidity. Attention to psychosocial and economic aspects and to legislation and community organization for satisfying health needs of aging persons.

HSC 400 Epidemiology

Epidemiology of disease, how diseases are spread, prevented and controlled. Introduction to the principles of epidemiologic investigation.

Prerequisites: HSC 360 or MATH 110, HSC 361

HSC 404 Seminar in Student Teaching

Latest trends and developments in health education are explored. Problems of classroom management are discussed. This course is conducted during the semester of the student-teaching experience.

HSC 450 Health Administration

Focus is on acquiring basic health service administration skills. Classroom discussions and reading assignments, introduce the student to modern health care management concepts and techniques that integrate social and quantitative perspectives. Visits to various health service delivery organizations help the student develop a better understanding of the interrelated and interdependent nature of the health care system.

HSC 470 Health Aspects of Aging

Basic health needs and concerns of the population. Interpretation of health care systems. Prevention of illness and disease, promotion of good health. Continuous spectrum of life.

HSC 471 Community Health Services and the Aging

An interdisciplinary approach to the analysis of theory and practice of community health resources which offer health and social services to the aging. Examines health and health related programs and establishes relationships between need and services.

HSC 490 Human Sexuality

The biological, sociological, psychological and educational aspects of human sexuality. Anatomy and physiology of reproduction and sexual response. Includes discussion and material dealing with contraception, abortion, homosexuality, deviation and other psychological and sociological aspects of human sexuality.

HSC 491 Alcohol and Drug Abuse Problems

A discussion and analysis of new developments in drug and alcohol abuse, research, education, treatment, legal and social policy. Social conditions that promote use of drugs and alcohol and abuse potentials are examined. Consultants present topics unique to their profession.

HSC 497 Fieldwork in Community Health

This quarter course provides the student with a supervised, full-time internship in a health sector organization. The student is encouraged to apply his knowledge and to test organizational theory in the working environment. Taken concomitantly with HSC 498; open only to senior community health majors. 8 credits

HSC 498 Seminar in Community Health

This quarter course focuses on the issues and problems confronting health professionals in our contemporary health care system. Discussions concentrate on developing appropriate strategies that lead to the feasible solutions of problems encountered during student internships. Taken concomitantly with HSC 497; open only to senior community health majors. 1 credit

HSC 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of Nursing

Professors: S.L. Hawes, M. Patrick, D. Williams

Associate Professors: A. Cerchio, H. Hakerem, H.D. Maciorowski

Assistant Professors: N. Berkowitz, D. Carp, K. Connolly, J. Cuddihy, D. D'Amico, I. Foti, J. Leonard, K. MacMillan, M. McElgunn, C. O'Connor, E. Sharkey

Instructors: M. Hulbert, J. Palasz, M. Schramm, E. Suraci, S. Zabrowsky

The Department of Nursing is nationally accredited by the National League for Nursing. Its primary mission is the education of students who will serve as professional nursing practitioners in health care delivery settings. Offerings of the department include a major in professional nursing, supported by a concentration in the biological, physical and social sciences and a broad base of liberal studies courses. Graduates of this program are awarded a bachelor of science degree with a major in nursing and a minor in the biological sciences. Upon completion of the program, graduates are eligible to take the licensure examination administered by the New Jersey Board of Nursing to become a registered professional nurse (R.N.).

Nursing courses include a clinical laboratory component in which faculty guide students in the development of knowledge and skills in a variety of health care settings. An on-campus learning center provides a large inventory of audio-visual materials, video cameras, carrel room and hospital equipment and supplies for student laboratory experiences.

Entrance Requirements

In addition to the College's admissions requirements, prospective nursing majors are required to take both a biology and chemistry course, with laboratory, in high school. Candidates must demonstrate satisfactory achievement in high school, and on the Scholastic Aptitude Test (CEEB-SAT), as well as place in the upper 1/s of their high school graduating class.

Students can be admitted to the program as freshmen or as transfers prior to sophomore year. Transfer students and students changing majors are eligible for admission following application and review by the department. It should be noted that students must have completed BIO 112-113, 170, and PSY 110, 210 before being permitted to enroll in the beginning courses in the nursing major.

Registered nurse students from diploma and associate degree programs may apply for admission following a transcript evaluation. Course deficiencies must be remedied prior to registering for the beginning courses in the nursing major.

For specific course information and advisement, prospective students should address inquiries to the RN Coordinator, Department of Nursing, The Nursing Department maintains a performance standards review after each semester. Students who do not maintain a 2.0 grade point average in the major and corequisite courses or who do not achieve a "C" grade or better will be placed on probation or dismissed from the nursing major.

52 orodite

MANION COUNCES

MAJO	R CO	URSES 52 cred	its
NUR	210	Nursing as a Profession	3
NUR	212	Adaptation Nursing I	3 2
NUR	214	Adaptation Nursing I	2
		Laboratory	
NUR	213	Adaptation Nursing II	3
NUR	215	. Adaptation Nursing II	3 2
		Laboratory	
NUR	310	Family Systems and	2
		Adaptation I	_
NUR	312	Expanding Family and:	3
1101	012	Adaptation Nursing	Ŭ
NUR	314	Expanding Family and	4
NOK	514		7
		Adaptation Nursing	
NILID	242	Laboratory	2
NUR	313	Established Family and	3
		Adaptation Nursing	
NUR	315	Established Family and	4
		Adaptation Nursing	
		Laboratory	
NUR	311	Family Systems and	2
		Adaptation II	
NUR	410	Community Systems	2 3
NUR .	412	Adaptation in the	3
		Community	•
NUR	414	Adaptation in the	4
		Community Laboratory	
NUR	450	Nursing Research	3
NUR	411	Professional Practice	3
11011	711	Theory	•
NUR	413	Professional Clinical	3
11011	710	Practice I	•
NUR	415	Professional Clinical	2
INOIN	410	Practice II	_
NÚR	404	Senior Seminar	1
INOIK	404	Sellior Serriinar	•
CO-RI	EQUISI	TE COURSES 39 cred	lits
PSY	110	General Psychology	٠ 3
PSY	210	Developmental	3
	•	Psychology	
BIO	112	General Anatomy and	4
0.0		Physiology I	
BIO	113	General Anatomy and	4
ы	110	Physiology II	7
BIO	170	Basic Microbiology	1
CHEN		College Chemistry	3
_		College Chemistry	-1
CHEN	1004		'
LICC	200	Laboratory	2
HSC	320	Nutrition	S
CHEN		Organic Biochemistry	3 3 1
CHEM	1005	Organic Biochemistry	1
	400	Laboratory	2
MATH		Elementary Statistics	3 3
BIO	302	Human Genetics	3
BIO	312	Advanced Anatomy	4

and Physiology

Courses

Unless otherwise noted, all courses are for 3 credits.

NUR 210 Nursing as a Profession

Identifies historical and evolutionary perspectives in nursing as they impact on current issues and trends in health care delivery and professional nursing.

NUR 212 Adaptation Nursing I

Utilizes the Roy Adaptation Model as a framework for the nursing process which identifies normative ranges of health within a holistic model of man.

Prerequisites: BIO 113, BIO 170, PSY 210

NUR 214 Adaptation Nursing I LaboratoryBuilding on theory presented in NUR 212
and laboratory content, the presentation
and practice of assessment techniques
and basic nursing activities emphasize the
one-to-one relationship between student
and client with a focus on primary prevention

Prerequisites: BIO 113, BIO 170, PSY 210 Taken concurrently with NUR 212. 2 credits, 6 laboratory hours.

NUR 213 Adaptation Nursing II

A further study of man's response to internal and external changes. Concepts of secondary and tertiary prevention and their application to the health-illness continuum are introduced, along with an introduction to leadership and group process skills.

Prerequisites: NUR 210, 212, 214

NUR 215 Adaptation Nursing Laboratory II Building on class theory presented in NUR 213, students experience a clinical setting focusing on the care of clients experiencing physical health problems. There is, as well, an opportunity to practice basic group strategies.

Prerequisites: NUR 212, 214 Taken concurrently with NUR 213 2 credits, 6 laboratory hours

NUR 310 Family Systems and Adaptation I Introduces the family as a primary social unit with health needs and goals. Family structure, developmental level and other stressors upon family health are identified. Teaching-learning as an integral component in the assessment and care of families is stressed.

Prerequisites: NUR 213, 215, CHEM 165, 065 Taken concurrently with NUR 312, 314 or NUR 313, 315 2 credits NUR 311 Family Systems and Adaptation II A continuation of the study of the family as a client of the nurse. Specialized stressors

a client of the nurse. Specialized stressors which threaten family health status and goal setting for families "at risk" are emphasized.

Prerequisites: NUR 310 and 312, 314 or 313, 315; BIO 302

Taken concurrently with NUR 312, 314 or NUR 313, 315 2 credits

NUR 312 Expanding Family and Adaptation Nursing

Emphasizes the evolving and growing family members and their adaptation status during growth and developmental cycles in health-illness. Psychosocial stressors of the expanding nuclear family are included and physiological adaptation are emphasized.

Prerequisites: NUR 213, 215, CHEM 165, 065

NUR 313 Established Family and Adaptation Nursing

Studies adult adaptation to health, illness and a variety of stressors as experienced by members of established and maturing family units. Physiological adaptation is emphasized and psychosocial stressors affecting family members through older adulthood are included.

Prerequisites: NUR 213, 215, CHEM 165, 065

NUR 314 Expanding Family and Adaptation Nursing Laboratory.

Laboratory setting provides for application of theory from NUR 310 and 312 or NUR 311 and 312. Students utilize cognitive and psychomotor skills by implementing the nursing process with female and male parents, the neonate, infant children and adolescents.

Prerequisites: NUR 213, 215, CHEM 165, 065 Taken concurrently with NUR 312 and NUR 310 or 311

4 credits, twelve laboratory hours

NUR 315 Established Family and Adaptation Nursing Laboratory

Laboratory applies theory from NUR 310 and 313, or NUR 311 and 313. Students utilize cognitive and psychomotor skills in the implementation of the nursing process with adult members of an established family.

Prerequisites: NUR 213, 215, CHEM 165, 065 Taken concurrently with NUR 313 and NUR 310 or 311

4 credits, 12 laboratory hours

NUR 404 Senior Seminar

Provides students with the opportunity to examine and discuss current trends in health care delivery, professional issues, historic events in the profession as they relate to current practice and career options within the profession.

Prerequisites: NUR 410, 412, 450

Taken concurrently with NUR 414, 415, 416

NUR 410 Community Systems

Focuses on role of the community as it relates to the health status of individual families. Community behavior and the potential effects of consumerism, as well as the sociopolitical dynamics of health-illness care are explored.

Prerequisites: BIO 310, NUR 311, 312, 313, 314

Taken concurrently with NUR 412, 414 2 credits

NUR 412 Adaptation in the Community

Focuses on the family and its members as clients of nursing who experience alterations in role function and interdependence in response to severe/sustained threats to their physiologic, psychic and social integrity. Relevant psychosocial theories contributing to ineffective self-concept behaviors and the definition and redefinition of roles are studies.

Prerequisites: NUR 311, 312, BIO 312

NUR 413 Adaptation in the Community Laboratory

Taken concurrently with NUR 410

Provides the opportunity to apply the Roy Adaptation Model in the nursing care of individuals/families responding to sustained stressors influencing adaptation. Application of theory from NUR 412 are geared to a client population with significant alterations who require assistance to achieve an optimal level of wellness. Prerequisites: NUR 311, 312, BIO 312 Taken concurrently with NUR 410, 412 4 credits, twelve hours per week

NUR 414 Professional Practice Theory

Designed to facilitate transition from a student role to that of the beginning professional practitioner. The structure of the course enables the student to examine both the sociocultural and economic forces affecting the nursing profession within the health care delivery system and the resulting political and legal processes. Prerequisites: NUR 410, 412, 413, 450

NUR 415 Professional Clinical Practice I (Laboratory)

Offers the student the opportunity to practice the various roles of the professional practitioner. Clinical expertise is developed via the application of the nursing process utilizing three levels of prevention. Prerequisites: NUR 410, 412, 413, 450 Taken concurrently with NUR 414 3 credits, 9 hours per week

NUR 416 Professional Clinical Practice II (Laboratory)

Offers the student the opportunity to provide care to groups of patients/clients at selected levels of prevention. The student applies theories of leadership, management, change and teaching-learning in the practice setting.

Prerequisites: NUR 410, 412, 420, 450 Taken concurrently with NUR 414, 415

2 credits, 6 hours per week

NUR 450 Nursing Research

(Fall semester—senior year)

Designed to assist the student in understanding and utilizing research concepts and methods by developing the student's ability to analyze, criticize and interpret research. The process of problem identification data collection and analysis is explored. A published nursing research report is critiqued.

Prerequisites: MATH 130, PHIL 110 and completion of 200- and 300-level nursing courses.

Department of Speech Pathology

Professors: F. Cohen, W. Hill Associate Professor: E. Chopek Assistant Professors: A. Freund, J. Hsu, A. Oratio, G. Walsh (chairperson)

The undergraduate program leading to a bachelor of arts in speech correction requires that students complete 60 credits of general education courses, 36 credits in the major and 7 credits in directed electives. If a student wishes to seek N.J. certification to teach in the public schools, 34 credits of professional education sequence courses must be completed.

Ninety hours of supervised clinical experience must be completed in the college speech and hearing clinic. An additional sixty hours may be completed during student teaching.

MAJOR REQUIREMENTS 36 credits PATH 160 **Phonetics** 3 PATH 161 The Nature of Speech, 3 Language and Communication Systems PATH 205 Speech Laboratory I 3 (Observation) PATH 262 Orientation to Speech 3 Pathology and Audiology PATH 263 **Articulation Disorders** 3 PATH 302 Speech Laboratory Con-3 tinued (1 credit each semester) Anatomy and Physiology PATH 361 3 of the Auditory and Vocal Mechanism PATH 363 Introduction to Audiology 3 PATH 365 Voice Disorders in Chil-3 dren PATH 366 Language Theory and 3 Therapy PATH 462 PATH 463 Auditory Rehabilitation Stuttering and Other Rhythm Disorders

STATE CERTIFICATION (SPEECH CORRECTION) REQUIREMENTS 31 credits

COKK	ECIIO	N) KERONKEMEN 12 31 CL	eans
EDUC	403	Culminating Field Experience	12
ELED	310	Educational Psychology: Adaptations and In- terventions in the Classroom	3
HSC	120	Current Health Issues	٠ 3
PATH	404	Seminar in Student Teaching	1
PATH	425	Teaching Speech	3
PATH	426	Organizing Speech and Hearing Programs	3
PSY	110	General Psychology	3
Plus:			
SED 3	81 Edu	ucational Sociology	3
	32 Hu	man Adaptation	3

Courses

Unless otherwise noted, all courses are for 3 credits.

PATH 160 Phonetics

A study of sounds, stress, phrasing and intonation as they relate to American English speech. The International Phonetic Alphabet is studied as a system for recording pronunciation and analyzing speech patterns. Practice in kinesiological application of sounds, written transcriptions and auditory analysis of speech patterns is emphasized.

PATH 161 The Nature of Speech, Language and Communication Systems

A general orientation to the study of human language communication. Topics include the nature of the speech signal, the structure and content of language, the nature of communicative interaction, human vs. animal communication, the relationship between language and thought, dialect variation and bilingualism, the relationship between the written and spoken system.

PATH 162 Basic Speech Skills

Enables student to develop maximum vocal and articulatory output; control the speech mechanism; eliminate regional accents; explore the impact of dialectical differences that impair communication.

PATH 205 Speech Laboratory I

Students observe and evaluate a minimum of 25 hours of therapy for speech, hearing and language problems. Weekly meetings are held to introduce students to clinical procedures. Taken in conjunction with PATH 263.

Prerequisite: PATH 263

PATH 261 Speech Disorders

A course for non-speech-pathology majors which focuses on the normal acquisition and development of speech and language and on the organic and functional factors which interfere with normal acquisition and development. The role of the special education teacher in the school speech therapy program is considered.

PATH 262 Orientation to Speech Pathology and Audiology

An introduction to the historical development, present scope and trends in speech pathology and audiology. A specification of problems and an introduction to therapeutic principles and methods. Important terminology appropriate to the areas of specialization and responsibilities as a team member in a paramedical profession are included.

PATH 263 Articulation Disorders

A study of the normal acquisition and development of articulation and of etiologies, evaluation and therapy procedures for articulation disorders. Prerequisite: PATH 262

PATH 302 Speech Lab Continuing

Students have the opportunity to learn the essential elements of effective clinical interaction and to experience basic therapeutic processes in modifying articulatory behaviors.

Prerequisite: PATH 205

PATH 361 Anatomy and Physiology of the **Auditory and Vocal Mechanism**

Anatomy and physiology of the respiratory, articulatory, vocal and auditory mechanisms and their application to speech and hearing disorders.

Prerequisite: BIQ 120

PATH 363 Introduction to Audiology

Pathologies of the auditory system and basic tests used in the identification and diagnosis of hearing loss: pure tone airand-bone-conduction audiometry, principles of masking and speech audiometry. Implementation of school hearing conservation programs.

Prerequisite: PATH 361

PATH 364, Voice and Speech Production

A study of the speech mechanism and its relationship to the development and mastery of basic breathing, vocal and articulation skills. Students in speech pathology, communication, education, business, theater, radio, singing and allied fields are encouraged to master these skills. Special attention given to individual voice, articulation and communication problems. Conference and practice hours to be arranged.

PATH 365 Voice Disorders In Children

Functional and organic voice disorders in children. Etiology, classification, methods of diagnosis and evaluation, therapy methods and techniques.

Prerequisites: PATH 361

PATH 366 Language Theory and Therapy

Normal and abnormal language systems and behavior. Topics include cognition and language, language analysis, normal development, application of developmental psycholinguistics to language therapy. Prerequisite: PATH 161

PATH 367 Sign Language I

Designed to teach sign language and the manual alphabet to health professionals, speech pathologists, rehabilitationists and teachers of children with special problems so they can work with children and adults who have a need for an alternate means of communication.

PATH 368 Communication Problems of the Elderly

Covers normal communication systems, psychological and neuro-physiological correlates of aging, effects on communication ability due to hearing loss, pathological processes, alterations in environment and lifestyle and the roles of rehabilitation specialists.

PATH 369 Community Hearing Screening **Program**

Supervised experience in a community hearing screening program with age levels from pre-school children to the geriatric population.

Prerequisite: PATH 363 or CODS 504

PATH 370 Sign Language II

Designed to further strengthen the manual communication skills of health professionals, speech pathologists, rehabilitationists and teachers of children with special problems.

Prerequisite: PATH 367

PATH 404 Seminar in Student Teaching

Latest trends and developments in speech pathology and audiology. Problems of classroom management are discussed. This course is conducted during the semester of the student teaching experience.

PATH 410 Language Development and Speech Improvement

The study of normal speech and language acquisition and speech and language problems for non-speech pathology majors. Consideration is given to: 1) language acquisition, improvement and change; 2) linguisitic and phonetic elements of oral language with emphasis on preschool and early childhood developmental language programs; 3) fundamental concepts of articulation and voice production; 4) basic understanding of severe speech problems.

PATH 425 Teaching Speech

The speech therapist's role in the development and conduct of speech improvement programs in the public schools. Speech materials suitable for "use with school-age children according to the classroom curriculum needs reviewed and discussed. Special attention given to materials used with school-age children who have speech and language problems.

PATH 426 Organizing Speech and Hearing Programs.

The factors important to the organization, administration and supervision of speech and hearing programs in the public schools. The school speech pathologists' inter-professional relationships as they relate to the program are considered. Prerequisite: PATH 425

PATH 462 Auditory Rehabilitation

Principles of therapy and clinical techniques for the development of speech and language for the hearing impaired. Management procedures in speech and language rehabilitation and/or rehabilitation include auditory training, speech-reading and selection and use of appropriate amplication systems.

Prerequisite: PATH 363

PATH 463 Stuttering and Other Rhythm Disorders

Includes significant theories, research and practices in therapy for children and adults; preventive principles in the home for younger children; and evaluative and therapeutic procedures in the clinic and classroom for older children and adults.

PATH 499 Independent Study

As approved and to be arranged. 1-3 credits

The School of Humanities

Richard Atnally, Dean Office: Matelson Hall 362

The School of Humanities offers degree programs in African and Afro-American studies, English, foreign languages, history, liberal studies, and philosophy and an endorsement program in bilingual/bicultural education. In addition to these programs, designed for students interested either in pursuing professional careers, including teaching, or in developing a future vocational interest, the school provides a variety of liberal studies courses for other majors.

The school also offers a series of interdisciplinary honors courses that combine broad cultural seminars with intensive individual study and lead to an "honors in humanities" degree designation.

Finally, the school serves the campus and the community throughout the year with an array of on-campus conferences and off-campus projects, such as the Great Falls Festival and the production of films on topics of humanistic interest.

The Honors Program in Humanities

Taught by different members of the school, under the direction of the dean, the honors courses in humanities are designed to challenge to the fullest a student's capacities through structured multidisciplinary seminars and intensive individual study. The courses' general aims are: 1) to promote intellectual excellence within a common scholarly community; 2) to foster an awareness of various disciplines and their unity; 3) to offer opportunities for self-direction of future goals.

By fulfilling individual departmental requirements, a student may concentrate in any major in the College and, at the same time, participate in the humanities honors program by fulfilling the minimum requirements outlined below. Admission and continuance are determined by a Humanities Honors Advisory Committee, whose individual members also act as academic advisors to students enrolled in the program.

HONORS	COURSES	15	credits

HONORS CO	DURSES 15 cr	edits
HUMH 199	Humanities Honors Semi- nar I: Representations of Humanity Past and Pres- ent	3
HÚMH 200	Humanities Honors Semi- nar II: Representations of Humanity Past and Pres- ent	3
HUMH 498	Humanities Honors Re- search: Independent Study	3
HUMH 499	Humanities Honors Thesis: Independent Study	3

Plus one of t	the following:	
HUMH 300	Humanities Honors Collo-	3
	quium: The Twentieth	
	Century and Its Discon-	
	tents	
HUMH 301 .	Humanities Honors Collo-	3
	guium: The En-	
	lightenment: Origins of	
	Modern Consciousness	
HUMH 302	Humanities Honors Collo-	3
	guium: Medieval and	
	Renaissance Culture	•
HUMH 303	Humanities Honors Collo-	3
	quium: Classical Tradition	•
	and Christian Civilization	
	and Christian Civilization	

Humanities Honors Evening Program

Evening sections of the honors program have been created better to meet the interests and needs of workings students. The practical experience and problems of such students are taken as the starting point for developing a comprehensive view of life in the twentieth century and examining the role of the humanities in responding to its problems. A larger historical perspective is then developed in order to appreciate more fully the possibilities and limits of our human nature.

HONORS CO	OURSES 15 cr	edits
HUMH 201	Humanities Honors Semi- nar III: Representations of Humanities in the World of Work Today	3 '
HUMH 202	Humanities Honors Semi- nar IV: Representatives of Humanities Through His- torical Perspectives	3
HUMH 498	Humanities Honors Re- search: Independent Study	3
HUMH 499	Humanities Honors Thesis: Independent Study	3
Plus one of	the following:	
HUMH 300	Humanities Honors Colloquium: The Twentleth Century and Its Discontents	3
HUMH 301 ⁻	Humanities Honors Colloquium: The Enlightenment: Origins of Modern Consciousness	. 3
HUMH 302	Humanities Honors Colloquium: Medieval and Renaissance Culture	3
HUMH 303	Humanities Honors Colloquium: Classical Tradition and Chris-	. 3

Courses

Unless otherwise noted, all courses are for 3 credits.

HUMH 199 Humanities Honors Seminar I: Representations of Humanity Past and Present

Selected humanistic problems in the literature, history, and philosophy of the past and present. Semester is divided into two periods, classical and medieval-Renaissance, with emphasis on representative authors, e.g., Plato, Sophocles, Dante. Readings, seminar discussions, guest lecturers and educational films explore such perennial questions as the interplay of self and society, the value of intelligence, man's place in nature, heroism, etc.

Prerequisite: Permission of Humanities Honors Advisory Committee

HUMH 200 Humanities Honors Seminar II: Representations of Humanity Past and Present

Selected humanistic problems in the literature, history and philosophy of the past and present. Semester is divided into two periods—the age of revolutions and twentieth-century—with emphasis on representative authors, e.g., Bacon, Wordsworth, T.S. Eliot. Readings, seminar discussions, guest lecturers and educational films explore such perennial questions as the interplay of self and society, the value of intelligence, man's place in nature, heroism, etc.

HUMH 201 Humanities Honors Seminar III: Representations of Humanities in the World of Work Today

An examination of human life and its problems in the twentieth century, specifically designed to interest the evening working student. Our technological culture has promised unlimited control and prosperity but has also brought alienation and complexity. Possible solutions offered by politics, behavioral science and philosophy are discussed. This course develops a perspective for understanding our human context and provides a focus for dealing with its problems.

HUMH 202 Humanities Honors Seminar IV: Representations of Humanities Through Historical Perspectives

An examination of classic expressions of human nature and values from the ancient Greeks through the twentieth century, specifically designed to interest the working evening student. There is an emphasis on such issues as the hero as an expression of cultural values, the educational role of the epic and other literary forms, and the various means people have found to achieve self-discovery and salvation.

tian Civilization

Required Course

HUMH 300 Humanities Honors Colloquium: The Twentieth Century and Its Discontents

An interdisciplinary examination of some specific contemporary cultural issue—the loss of self in modern life, myth-making impact of technology, etc. Each semester focuses on a different facet of modern consciousness including such aspects as creative experience, scientific outlook and existentialism.

HUMH 301 Humanities Honors Colloquium: The Enlightenment: Origins of Modern Consciousness

An examination of the contributions of the Enlightenment to the development of Modern Western consciousness. The course explores the role of reason and sentiment in the development of European cultures of the eighteenth century.

HUMH 302 Humanities Honors Colloquium: Medieval and Renaissance Culture

An examination of the thought, literature, art and social structure of the Middle Ages and the Renaissance, c. 400-1500. The course stresses the features distinctive to the period and those which have influenced the modern world.

HUMH 303 Humanities Honors Colloquium: Classical Tradition and Christian Civilization

A study of the philosophical, anthropological and social concepts of the Greeks and Romans and their impact on Christian culture. Emphasis on the development of man's identity as an individual in the classical world.

HUMH 498 Humanities Honors Research: Independent Study

Independent study and research in an approved subject for the honors program.

HUMH 499 Humanities Honors Thesis: Independent Study

Independent study with the completion of a written report or its equivalent approved in the honors program. Prerequisite: HUM 498

Humanities Interdisciplinary Courses

Two sections of a broad interdisciplinary approach to the humanities have recently been created to meet the General Education needs of students. These courses have been approved for General Education for any student in the College.

COURSES

Unless otherwise noted, all courses are for 3 credits.

HUM 251 Humanities I: Cultural Roots and Continuities

A study of the roots of Western and non-Western cultural expression in the context of historical periods or by thematic approach. Analysis of ideas and values from classical to the modern world (or vice versa).

HUM 252 Humanities II: Cultural Roots and Continuities

A study of the roots of Western and non-Western cultural expression in the context of historical periods or by thematic approach. Analysis of ideas and values from classical to the modern world (or vice versa).

Liberal Studies Major

Students who are interested in several disciplines offered by the School of Humanities, but who do not wish to major in any one of them, may want to pursue the liberal studies major offered by this school. With the assistance of an academic advisor, students select a total of 48 credits from at least three of the school's majors, taking no more than 18 credits in any one of them.

Successful completion of the program results in a bachelor's degree in liberal studies. School of Humanities.

Department of African and Afro-American Studies

Associate Professor—V. McClean (chair-person).

Assistant Professor—L. Agard-Jones

The African and Afro-American Studies Department offers both a major and a minor program, plus a variety of ethnic courses as free electives for students in other major programs. The African and Afro-American studies major may be combined with various certification sequences to provide the student with teaching certification in early childhood or elementary education, or social studies.

The objectives of the major in African and Afro-American studies are: 1) to introduce the history and culture of African and Afro-American peoples; 2) to provide extensive training in these areas for students interested in research, teaching, social work and community leadership; 3) to provide students with a background for graduate work in African and Afro-American studies; 4) to provide students with a background for careers in urban study and community work; 5) to provide a foundation for graduate studies in urban studies.

Required C		_
AAAS 100	Introduction to African and Afro-American Studies	3
Plus 33 ac	dditional credits chosen fr	n m
	e following areas as indicate	
	three courses required.	
AAAS 110	Afro-American History to 1865	
AAAS 111	Afro-American History Since 1865	3
AAAS 201	African History	3
AAAS 240	Afro-Caribbean History	3
AAAS 310	Recent Interpretations in Afro-American Studies	3
AAAS 315	Afro-American Back- ground for Teachers	3
Socio-Psyc	hological—two courses	re-
AAAS 112	The Black Family	3
AAAS 131	Afro-American Social Thought	3
AAAS 202	African Family Life	3
AAAS 203	Police and the Black Community	3
AAAS 230	Roots of Racism in the United States	3
AAAS 255	The Black Woman Ex- perience	3
AAAS 258 AAAS 260	Black Psychology The Black Church	3 3
Political t	vo courses required.	
AAAS 130	Black Politics	3
AAAS 205	Pan-Africanism and the Black Experience	3
AAAS 208	Blacks and the Criminal Justice System in the Unit- ed States	3
AAAS 238	African Politics .	3
	and the Fine Arts—6 credits	re-
quired.	Afra Amaniana mad	2
AAAS 101	Afro-American and Afro-Caribbean Dance	3
AAAS 102	Afro-American Theatre	3
AAAS 120	Afro-American Music	3
AAAS 206	Elementary Swahili	3 3 3
AAAS 207	Blacks and the Mass Media	3
AAAS 228	The Afro-American Literary Experience I	3
AAAS 229	The Afro-American Literary Experience II	3
AAAS 233	Introduction to the Art of Africa	3
AAAS 307 AAAS 311	Intermediate Swahili African Literature	3 3
Economics	and Community Develo	n.
ment—two	and Community Develo	٠,
AAAS 220	courses required. Career Guidance	3
AAAS 245	Problems and Practices of Ethnic Markets	3
AAAS 280	Minority Enterprises	3
	Minority Enterprises	
AAAS 299	Student Community Service	3
AAAS 299	Student Community Service	

and Afro-American Stud-

Plus 3 credits from each of the above con-

ies

centrations, by advisement.

Courses

Unless otherwise noted, all courses are for 3 credits

AAAS 100 Introduction to African and Afro-American Studies

An introductory course which familiarizes the student with the diasporic and interdisciplinary nature of the black presence in the world. The student surveys concepts such as negritude, Ujamaa, black capitalism, black survival, etc.

AAAS 101 Afro-American and Afro-Caribbean Dance (same as PE 116)

Preparation of the body through conditioning exercises and dance sequences to perform ethnic dance forms from Africa, the Caribbean and the United States. Examination of African, French and Spanish sources. Students may choose a field trip to a professional performance or examine dance forms more closely by composing a dance sequence using ethnic materials from class.

AAAS 102 Afro-American Theatre

An exploration of the black experience through the medium of theatre.

AAAS 110 Afro-American History to 1865

After a survey of the African heritage, including slavery, a study is made of the history of people of African descent in their New World environment. The role of Afro-Americans in the development of the U.S. to the Civil War is examined.

AAAS 111 Afro-American History Since 1865

Beginning with an examination of the period of Reconstruction, the course explores the various survival tactics of Afro-Americans and the effects of governmental and societal action or inaction on their lives up to the present.

AAAS 112 The Black Family

A socio-cultural and historical introduction to the various forces that have continuously eroded the social fabric and stability of the black family. It offers theoretical exposition of the nature and features of the black family with comparative concepts and practices of love, marriage, divorce, illegitimacy, homosexuality and other aspects of the black family.

AAAS 120 Afro-American Music

The music of Africa and black people in the United States has become interwoven with that of America. This course presents a brief analysis of such musical forms as black spirituals, jazz and the utilization of such African forms of expression as drums, guitar, bass fiddle and other means of musical expression. Interpretive analysis is also presented.

AAAS 130 Afro-American Politics

An examination and analysis of the political power structure and relationships in the black community. Emphasis is on those factors which make black communities relatively powerless and how this state of powerlessness can be ameliorated. Particular attention is paid to black political interaction in New Jersey.

AAAS 131 Afro-American Social Thought

The development of the social thought of black Americans in the nineteenth century regarding the nature of being and the circumstances and fortunes of black people. Begins with David Walker and Martin Delaney and concludes with Malcolm X, Stokely Carmichael and Bayard Rustin.

AAAS 201 African History

Egypt, Kush, Ghana, Mali, Songhai, Benin and Ife are among the civilizations of ancient Africa discussed. Particular stress on the controversy surrounding the African origin or all civilizations. Describes the exploration, conquest and colonization of Africa during the nineteenth and twentieth centuries. Also highlights the beginning of the transformation of the African traditional society to a modern society.

AAAS 202 African Family Life

Traces and examines the origin and development of the African family system, marriage, sex and child rearing. Focuses also on the primacy of the family in African life.

AAAS 203 Police and the Black Community

Designed to investigate and describe the causes and nature of the conflicts arising between the police force and the black community. People presently involved in police and/or community relations are invited to the class to discuss the roles and duties of the police force and the interests and rights of the black community.

AAAS 205 Pan Africanism and the Black Experience

An analysis of the philosophy and philosophers of Pan Africanism and the African experience in the diaspora; emphasis is on those forces that identify, unite and disunite black people all over the world as they strive to control their destiny.

AAAS 206 Elementary Swahili

Presents the fundamentals of Kiswahili. Simple grammatical construction and forms, building of broad and commonly used vocabulary and idiomatic expressions, developing reading, writing and conversational skills with emphasis on the grammatical principles and their application to the language.

AAAS 207 Blacks and the Mass Media

Examines the history and roles of blacks in the American media.

AAAS 208 Blacks and the Criminal Justice System in the United States

Analyzes the presence of racism in the formulation and implementation of the law, in the courts, penal institutions and in the police department. An effort is also made to examine the relevance of social, economic and political factors in the adminstration of justice.

AAAS 220 Career Guidance

Designed to enable students to move more easily into the workplace. Students are exposed to various aspects of the job market and learn interview techniques, resume preparation and other methods of self-preparation and presentation.

AAAS 228 The Afro-American Literary Experience I

The black experience as depicted in literature by and about black people. Focuses on biographies, autobiographies and fiction.

AAAS 229 The Afro-American Literary Experience II

Focuses mainly on Afro-American drama, poetry and essays.

AAAS 230 Roots of Racism in the United States

A survey which traces and analyzes the development of American racism.

AAAS 233 Introduction to the Art of Africa

An introductory course designed to explore and examine the origin, evolvement and meaning of African art. In addition to highlighting the forms, styles and expressions of African art, the course examines the role of art in African life.

AAAS 238 African Politics

Deals with post-independence governmental political parties and ideological inclinations among African states. Emphasis is on the origin and evolvement of political institutions and their functions within the framework of contemporary Africa and the world in general.

AAAS 240 Afro-Caribbean History

Examines the history of the Caribbean starting with the discovery of the islands, colonization, slavery and the evolution of a distinctly Afro-Caribbean personality and culture.

AAAS 245 Problems and Practices of Ethnic Markets

After an introduction to principles of marketing and consumerism, the course surveys the existing range of advertising and consumer items common among black people, plus how the existing market can be expanded and improved for overall community development.

AAAS 255 The Black Woman Experience

Examines what it is to be a black woman in racist and sexist America. Highlights the achievements of black women and the predicament of being caught up between the black man and the white man.

AAAS 258 Black Psychology

Examines traditional schools of psychology as they pertain to the psychological experience of black Americans. Alternative psychological considerations, relative to the black experience, and advanced by noted black psychologists, are also explored.

AAAS 260 The Black Church

Examines and analyzes the social and historical development of the black church in the black community. The course demonstrates the role of the church in the survival and struggles of black people. There is also an attempt to show how the church's role has been adjusted to changing circumstances and environment.

AAAS 280 Minority Enterprises

The structure, patterns and problems of minority owned and/or operated enterprises in the black and other minority communities. Emphasis on ways and means by which black and other minority owned and operated businesses can be improved both quantitatively and qualitatively.

AAAS 299 Student Community Service

The student has the opportunity to coordinate the learning experience through performance in different areas which encompasses aspects of practicum, education as a profession, student teaching, early childhood, secondary education and so forth. The course involves working with organized groups of inner city children in the areas of remedial teaching, basic skill development, recreational and cultural enrichment.

May be repeated once for credit.

- AAAS 307 Intermediate Swahili

Emphasizes primarily conversation and basic grammar. The class meets formally twice a week; in addition, students work with tapes in the language lab. The approach is concentrated on phonology, morphology and vocabulary.

AAAS 310 Recent Interpretations in Afro-American Studies

A presentation of the differing points of view on current topics in Afro-American studies and scholarship.

AAAS 311 African Literature

Examines contemporary African writing, essays, drama, poetry and/or fiction; and explores the common theme in most African writing and the problems of cultural identification.

AAAS 315 Afro-American Backgrounds for Teachers

A general course for prospective teachers. Introduces various current and historical precepts for analysis which enable the student to identify the roots of the black American experience. Students visit areas of cultural interest to Afro-Americans in the metropolitan-New York-New Jersey area.

AAAS 412 Fundamentals of Social Work

Prepares the student who plans to go to a graduate school of social work. Emphasis is on the basics of social work and how these basics relate to the social problems of inner city areas.

AAAS 420 Economic Structure of the Black Community

Beginning with an introduction to economics, the course then defines the ghetto or the inner city, and examines the economic relations between the ghetto and the rest of the economy.

AAAS 480 Research Methods and Minorities

Introduces students to methodological approaches in research in minority communities.

AAAS 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of English

Professors—R. Atnally, P. Cioffari, M. Davidow, E. DeGroot, D. Duclos, R. Jaarsma, R. Kloss, V. Mollenkott, R. Nickson, S. Wertheim

Associate Professors—D. Edwards, V. Granger, S. Hand, J. Hauser, J. Hoban, J. Jordan, S. Kistler, S. McNamara (chairperson), F. Manno, A. Mazzella, S. Radner, D. Thomas

Assistant Professors—M. Conlon, J. Hartman, L. Lyles, D. Perry, K. Ray, R. Rosen

The English Department offers a major program in literature and a major with concentration in writing leading to a bachelor of arts degree in English, plus a minor in English and a variety of liberal studies or free elective courses for students in other programs. Students may choose from courses in English, American and comparative literature; linguistics, criticism and writing; or contemporary themes in literature and film.

The objectives of the program are: 1) to provide students with an understanding and appreciation of literature as art and the relation of literature to other art forms; 2) to heighten students' awareness of their linguistic, literary and cultural heritage; 3) to develop their critical reading, interpreting and thinking skills; 4) to increase their ability to communicate their ideas in writing; 5) to provide students with backgrounds for their careers; 6) to prepare students for advanced work at the graduate level.

Students majoring in English often choose careers in teaching, law, journalism, publishing, editing, public relations, advertising, computer technology, finance, or writing film and TV scripts, plays, novels, stories or poems.

English majors who intend to pursue a graduate program in English are strongly encouraged to satisfy the intermediate reading level in a foreign language.

Note: It is recommended, although not required, that ENG 140, Writing Effective Prose, which all students must pass with a grade of "C," be taken by English majors during the first semester of the freshman year, and that ENG 200, Methods of Critical Analysis, which is not a required course, be taken in the second semester.

WILLIAM PATERSON COLLEGE

ENGLISH REQUIREMENTS 30 credit		CONCENTRATION REQUIREMEN 30 cred	NTS	ENG 300 Technical Writing 3
Choose five of the following "survey courses:	Required			or ENG 615. Advanced Critical 3
ENG 301 · English Literature through the Neoclassical Period	ENG 200	Methods of Critical	3	Writing†
	3 ENG 330		3	Teaching
	3 ENG 331 ENG 401	Linguistics and	3 3	ENG 332 Advanced Creative Writ- 3 ing
ENG 304 American Literature 1865-1914	3 Choose o	Grammar ne of the following:		ENG 615 Advanced Critical Writ-
• •	3 ENG 209		3	ing† 3 ENG 333 Critical Writing for the 3
ENG 306 Literature of Western Eu-	3 COMM 25	50 Journalism	3	Specialist ENG 617 Modern Techniques of 3
rope: Renaissance through Modern	Choose of ENG 303		3	Composition†
Choose two "period" courses, one of which		1865		*In the event that a student must complete
must be before 1900: Before 1900	and ENG 304	American Literatüre	3	Basic Skills requirements or does not take
ENG 310 Elizabethan and Jaco-	3	1865-1914	Ü	Writing Effective Prose until the sophomore year, special opportunities will be granted
bean Drama ENG 311 Literature of the English Renaissance	3 ENG 304	American Literature 1865-1914	3	for completion of the sequence in a timely fashion.
	and . 3 ENG 317		3	†For senior students who show special ability; with the permission of the department
ENG 313 The Age of Dryden, Pope	3 . ENG 301	Literature English Literature:	3	and the dean.
and Swift ENG 314 The Age of Johnson	3 .	Through the Neoclassical	U	MINOR REQUIREMENTS 18 credits
•	3 and	Period ',		ENG 301 English Literature through 3
England ENG '3:16 Literature and Culture of the Victorians	3 ENG 302	P. English Literature: Romantic through	3	the Neoclassical Period ENG 302 English Literature: 3 Romantic through
	3	Modern		Modern ENG 303 American Literature to 3
	3 ENG 302	English Literature: Romantic through	3	1865
ENG 322 Nineteenth-Century Eu-	3 and	Modern		1865-1914
ropean Novel After 1900	ENG 318	 Modern British Literature 	3	ENG 305 Literature of Western 3 Europe: To the
	3 ENG 305		3	Renaissance ENG 306 Literature of Western 3
	3 3	Europe: To the Renais- sance	•	Europe: Renaissance through Modern
can Poetry	and	•		Note: With the chairperson's permission, six
ENG 323 Twentieth-Century European Novel	3 ENG 306	 Literature of Western Europe: Renaissance through Modern 	3	credits of other English courses may be substituted for two of the required courses in the minor.
Choose one writing course:	•			· ·
ENG 330 Critical Writing ENG 331 Creative Writing	3 Electives	9 cre	dits	CERTIFICATION REQUIREMENTS 43 credits
	•	hree courses from one of the	fol-	Students who are interested in obtaining
Choose one language course:	lowing tro Creative		•	teacher certification in English must com- plete the following:
	J	2 Advanced Creative	3	Academic Content Requirements
lish Language		Writing	,	3 credits
Choose one specialized author or seminar course:	or	24 Writing for Radio and TV	3	One course in speech arts or dramatics.
ENG 410 Chaucer and His Age	GOMM 4	31 Screenwriting	3 .	
ENG 411 Shakespeare: Comedies and Histories		51 Freelance Writing	3	•
ENG 412 Shakespeare: Tragedies and Romances	or ENG 619	Writing for the Magazine	3	
ENG 413 Milton	Critical W	Market† Iritina		
ature	,	Critical Writing for the Specialist	3	
erature	COMM 3	51 Advanced Reporting	3	•
	or	51 Freelance Writing	3	
•	or	54 News Editing	3	
	or	59 Journalism Field Studies	3	
•	3 =		-	

Secondary Education (K-12) Requirements 40 credits

EDUC 403		Culminating Field Experience	8
HSC	120	Current Health Problems	3
PSY	110	General Psychology	
RLA	329	Foundations of Reading	. 3
RLA	330	Reading Strategies for	` 3
		the Content Areas	
SED	301	Curriculum and Its	3
		Implementation ·	
SED	302	Discovering Your	3
		Teaching Self (K-12)	,
SED	330	Implementing Your	· -3
		Teaching Major (K-12)	
SED	340	Exploring the Teaching	1
		Field	
SED	404	Instructional Seminar for	٠ 1
		Student Teaching	
TED	310	Educational Psychology:	3
		Adaptations and	
		Interventions in the	
		Classroom .	

Plus one human relations course from the list on page 35.

Plus one professional preparation course from the list on page 35.

Courses

Unless otherwise noted, all courses are for 3 credits.

ENG 101 English as a Second Language: Fundamentals I

An intensive course in basic English communication skills (listening, speaking, reading, writing), designed for the non-native English speaking student. Course concerns itself with the sound system and the written structure of the English language.

ENG 102 English as a Second Language: Fundamentals II

An intensive course in English communication skills (listening, speaking, reading, and writing), designed for the non-native English speaking student. The course presupposes a knowledge of English above and beyond the merely "survival" level and concerns itself with the sound system and the written structure of the English language.

ENG 108 Basic Writing

The basic writing course is designed to emphasize the standard English sentence and the extension of a group of sentences into an organized unit.

Credits for this basic skills course are not applicable toward degree requirements.

ENG 110 Writing Effective Prose

Essential freshman writing course, designed to develop student's writing competency on the college level.

ENG 111 Advanced Writing Effective Prose

Designed to expand and extend critical reading and writing skills. Logical thinking is stressed as the basis for the various modes of inquiry. The skills practiced in this course should be easily transferrable to a student's major field of study.

ENG 120 Twentieth-Century Authors

Major works in modern ficition, drama and poetry. May include Conrad, Joyce, Woolf, Yeats, Lessing, Faulkner, Hemingway, Fitzerald, Eliot, Albee, Baraka, Camus, Hesse, Chekhov, Pirandello, Lorca, Kafka, Brecht.

ENG 130 The Short Story

Analysis of selected short stories by a variety of writers who have shaped and are shaping the genre. Bradbury, Hemingway, Baraka, Updike, Singer, Borges, Baldwin, Barthelme, Joyce, Kafka, Cheever, O'Conhor, Oates, Poe, Hawthorne, Faulkner, James, Wright, Welty, and others.

ENG 150 Introduction to Literature

The course is intended to develop in the student the appreciation and enjoyment of selected works in fiction, drama and poetry. Works selected represent different historical periods and cultures. Writing is required.

ENG 200 Methods of Critical Analysis

An in-depth study of selected short stories, poems, and plays, with focus on practice in using precise literary terms and analytical and evaluative techniques.

ENG 201-202 English as a Second Language: Introduction to American Culture through Literature, I & II

Advanced course in written communication based on American literary works and designed for the foreign student or the student whose primary or familiar language is not standard American English. 3 credits each semester

ENG 207 Effective Business Writing

A skills course featuring technical report writing, letters, data sheets, abstracts and other communication procedures.

ENG 208 The Bible and Literature

Examines the literary stature and influence of the Bible and the way authors utilize what they have read to strengthen their own creative efforts. Works by Dickinson, Twain, Nemerov, Louise Bogan, Margaret Walker, T.S. Eliot, Poe, others.

ENG 209 Book and Magazine Editing

A skills course in basic techniques of editing books and magazines. Designed for those interested in a publishing career and for the general reader and writer.

ENG 210 Modern Biography

Biographies and autobiographies: Van Gogh, Fitzgerald, Richard Wright, others; a study of the writer's purpose, procedure and style.

ENG 211 Modern Drama

Dramatists of Europe, England, America: Ibsen, Strindberg, Shaw, Pirandello, Lorca, O'Neill, Albee, Chekhov.

ENG 212 Contemporary Literature

British, American and Continental fiction and poetry from World War II to the present; writers may include Barth, Barthelme, Pynchon.

ENG 214 Contemporary Drama

Theatre of the Absurd, Cruelty, Protest, Guerilla theatre; experiments in ritual and free drama such as "Dionysius in 69." Playwrights may include Adamov, Beckett, Genet, Ionesco, Frisch, Pinter, Albee, Baraka, Stoppard, Kopit, Van Italile, Sartre, Bond, Handke,

ENG 215 Literature Into Opera

How composers and librettists transformed Carmen, Macbeth, Salome, Camille, Manon Lescaut and other works into operas. Ability to read music not required.

ENG 216 Science Fiction and Fantasy

A study of classical and recent science fiction, fantasy for adults and children, utopian and anti-utopian fiction. Authors read may include Asimov, Brädbury, Burgess, Carroll, Clarke, Gilman, Heinlein, Huxley, LeGuin, Lewis, Orwell, Tolkien, Vonnegut, Wells, Zamyatin.

ENG 217 Images of Women in Modern Literature

A study of the images of women in modern literature drawn mainly by women, and emphasizing the different social and emotional roles women are forced to play young unmarried women, wives, mothers, old maids, free women. Selected writers include Plath, McCarthy, Lessing.

ENG 219 Nineteenth-Century Women's Voices

A study of literary pieces of the nineteenth century showing woman passively accepting her role in society, questioning her role, rebelling against her role, and creating a new life style. Writers include Mary Shelley, Harriet Beecher Stowe, Charlotte Bronte.

ENG 220 Women, the Bible and Modern Literature

A study of Western religion's influence on sexual roles, including the Liberationist reaction. Designed to raise consciousness on a philosophical, mythological and political level. Includes works by Millett, Rich, Daly, Lessing, others.

ENG 221 The Mystery Story

An historical, "philosophical," cultural and literary study of the mystery story through an examination of such fictional works as the detective story, the suspense novel, the story of strange or frightening adventure, the tale of espionage, the tale of crime and the Gothic novel—with an emphasis on detection.

ENG 222 Crime and Punishment: Law in Literature

An examination of a wide range of literature with particular emphasis on its relation to questions and problems of civil and criminal law; may include works by Thoreau, Dickens, Camus, Dostoevsky, Wright, Solzhenitsyn, and others.

ENG 229 Novel and Film

Consideration of major novel-film adaptations, with emphasis on the challenge of transforming words into images; included may be The Great Gatsby (Fitzgerald-Clayton), Great Expectations (Dickens-Lean), Jules and Jim (Roche-Truffaut), others.

ENG 230 Story and Film

Study of short works, like short story, myth, fable, and their film adaptations; works may include "The Sentine!"/2001: A Space Odyssey (Clarke-Kubrick), Blow-Up (Cortazar-Antonioni), "The Turn of the Screw"/The Innocents (James-Clayton), and experimental short films like "Crazy Quilt."

ENG 300 Technical Writing

Designed to help students identify and reproduce the qualities that mark successful technical writing. The course concentrates on composing several short papers—definition, description, classification and process analysis—and on the long technical report.

ENG 301 English Literature through the Neoclassical Period

Critical study of selected prose and poetry from the beginnings of English literature through the eighteenth century, with attention to social and intellectual background; included are such authors/works as **Beowulf**, Chaucer, Spenser, Shakespeare, Milton, Pope, Johnson, Fielding, Swift.

ENG 302 English Literature: Romantic through Modern

Critical study of selected prose and poetry from the early nineteenth century to the present, with attention to social and intellectual background; included are such authors as Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Arnold, Wilde, Joyce, Yeats.

ENG 303 American Literature to 1865

Major and minor American authors from the beginnings through Poe, Hawthorne, Melville, Emerson, Thoreau.

ENG 304 American Literature 1865-1914

Major and minor American authors of the period; emphasis on Whitman, Dickinson, Twain, James, Stephen Crane.

ENG 305 Literature of Western Europe: To the Renaissance

Great works of the early Western world: Homer, Sophocles, Plato, Aristotle, Virgil, Dante, Boccaccio, St. Augustine.

ENG 306 Literature of Western Europe: Renaissance through Modern

Great works of the later Western world: Machiavelli, Rabelais, Cervantes, Moliere, Goethe, Balzac, Dostoevsky, Mann, Sartre, Proust.

ENG 310 Elizabethan and Jacobean Drama

Shakespeare's forerunners and contemporaries in drama: Kyd, Marlowe, Jonson, Webster, others.

ENG 311 Literature of the English Renaissance

A study of selected English prose and poetry of the sixteenth century. Special attention is given to the early English humanist theories of education, eloquence and language and their literary influence. The important developments in English poetry are studied, including the variation of line, language, imagery, and form (song, sonet, satire, pastoral, epic). Several writers are considered, but the focus is on such major figures as Thomas More, Philip Sidney and Edmund Spenser.

ENG 312 Donne, Jonson and their Contemporaries

Study of British literature, 1600-1660, emphasizing Donne, Jonson, Bacon, Herrick, Herbert, Marvell. Focus is on relationship between themes and techniques of seventeenth-century literature and those of modern times.

ENG 313 The Age of Dryden, Pope and Swift

A study of selected prose and poetry and minor authors of the age of Dryden, Pope and Swift to explore the relationship of the literature to the intellectual milieu of the period: social, political and economic thought; the theory and practice of letters; the dominant attitudes in philosophy, religion, science and education.

ENG 314 The Age of Johnson

Late eighteenth-century poetry, prose, drama; emphasis on Boswell, Johnson, Goldsmith, Gray; decline of Augustanism, rise of Romanticism.

ENG 315 Romantic Movement in England

Romantic poetry and prose: Burns, Blake, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats, critics of the period.

ENG 316 Literature and Culture of the Victorians

Poetry of Tennyson, Browning, Arnold, others; prose works by Carlyle, Newman, Mill, Ruskin, Huxley; Victorian novels and plays.

ENG 317 Modern American Literature

Leading American writers of the modern period: Stevens, Frost, Eliot, O'Neill, Fitzgerald, Hemingway, Wolfe, Steinbeck, Faulkner, others.

ENG 318 Modern British Literature

Fiction, poetry, drama, criticism since 1885: Forster, Hardy, Joyce, Yeats, Shaw, Woolf, Conrad, Hopkins, Lawrence, I.A. Richards, Empson; Irish Renaissance, naturalism, symbolism.

ENG 319 Modern British and American Poetry

Major poets and significant trends in modern British and American poetry beginning with Yeats and Robinson and including such figures as Frost, Eliot, Auden, Thomas, Sexton, Plath, Ginsberg, Lowell, Larkin and Hughes.

ENG 320 The English Novel: Defoe to Austen

Selected novels by Defoe, Richardson, Fielding, Smollett, Sterne, Austen.

ENG 321 The English Novel: Dickens to Hardy

Selected novels by Dickens, Thackeray, Trollope, Meredith, George Eliot, Hardy.

ENG 322 The Nineteenth Century European Novel

A study of major French, German and Russian novels against the social, political and intellectual milieu of nineteenth-century Europe. Within the framework of the romantic realistic and the naturalistic literary movement, the novels are read from a variety of viewpoints; as a depiction of the life of a nation—Balzac Gogol, Tolstoy and Mann; as a probing of the psychological nature of man—Stendhal, Dostoyevsky and Zola; and as an innovation in technique—Flaubert, Stendhal and Mann.

ENG 323 Twentieth-Century European Novel

Readings in representative novelists, including Proust, Mann, Hesse, Kafka, Camus, Moravia, Solzhenitsyn.

ENG 330 Critical Writing

Analysis of writings to uncover principles and techniques of expressive communication; training in writing critical papers, book and film reviews, formal and informal essays.

ENG 331 Creative Writing

Workshop leading to the development of imaginative power and originality in writing poetry, fiction, drama, film scripts.

ENG 332 Advanced Creative Writing

An advanced writing course designed to meet the needs of students who, having successfully completed one semester of creative writing, desire further time for supervised writing and specialized instruction.

ENG 333 Critical Writing for the Specialist

Seminar introduces student to an area of specialization in writing in an advanced context which provides close individual supervision and also exposes the student to all kinds of analytical writing. The technical reporter, for example, will learn from the film critic, the journalist from the copywriter.

ENG 335 Modern American Jewish Authors

Study and interpretation of modern literary works describing the Jewish experience in America. Authors include Philip Roth, Bernard Malamud, Edward L. Wallant, Chaim Potok, Saul Bellow, Delmore Schwartz, others.

ENG 399 Selected Topics

Study of special areas of literary concern not covered in depth in any existing courses. Topics vary from semester to semester in response to student demandand professional interest, and are announced in current master schedules.

ENG 401 Linguistics and Grammar

Study of both traditional and structural grammars to aid in analysis of language in understanding and improvement of style.

ENG 402 Development of the English Language

Study of forces that shaped vocabulary, pronunciation, spelling and grammar.

ENG 410 Chaucer and His Age

Emphasis is on Chaucer's Canterbury Tales, and Chaucer's language: late Middle English of the South East Midlands. Some attention is given to the historical background of the period and, if time permits, a number of Chaucer's shorter works are read and discussed.

ENG 411 Shakespeare: Comedies and Histories

Study of such plays as Richard II, Henry IV, A Midsummer Night's Dream, The Merchant of Venice and Much Ado About Nothing.

ENG 412 Shakespeare: Tragedies and Romances

Study of such plays as Hamlet, Macbeth, Romeo and Juliet, Othello, King Lear, The Tempest.

ENG 413 Milton

Study of dramas, lyric poems, epics, prose works of John Milton with emphasis on Comus, "Lycidas," Paradise Lost, Aeropagitica; focus is on Milton's relevance to our time.

ENG 420 Literary Criticism

Major literary theories and practices from Aristotle to the present with emphasis on contemporary application. Experience in practical analysis and writing is featured.

ENG 421 Literature and Psychoanalysis

Study of literature through application of depth psychology; analysis of short works such as **Oedipus Rex** and the short stories of Poe, Kafka, Melville and Hawthorne.

ENG 422 The Psychological Novel

The relationship between depth psychology and literature and the use of psychoanalysis in interpreting and understanding the novel. Authors may include Gide, Woolf, Joyce, Beckett and others.

ENG 423 Myth, Symbol and Literature

Study of symbol, ritual and myth formation and primitive, classical, biblical and social symbols and myths as they appear and function in literature.

ENG 480 Seminar in English Literature

Designed to help students study, in depth, a single British author, or work, chosen by the instructor.

ENG 481 Seminar in American Literature

Course to help students study, in depth, a single American author, or work, chosen by the instructor.

ENG 490 Internship in English

On-the-job training with regional employers. Students write regularly for the employer and the academic coordinator.

ENG 499 Independent Study

As approved and to be arranged. 1-3 credits

Note: See also courses listed under Humanities, p. 60.

Department of Languages and Cultures

Professors—C. Barry, O. Saa **Associate Professors**—D. Chao, O. de la

Associate Professors—D. Chao, O. de la Suarée (chairperson), A. Sully

Assistant Professors—A. Aguirre, M. Barasch, G. Nussenbaum, J. Sainz

The aims of the Department of Languages and Cultures are fourfold: 1) to further the development of students majoring or minoring in the department (presently, majors and minors are offered in French and Spanish); 2) to provide training in bilingual/bicultural education as well as in English as a second language, leading to endorsement as a teacher in those fields in the State of New Jersey and elsewhere; 3) to provide courses which may be used in partial fulfillment of the liberal studies requirement in the humanities; and 4) to offer, whenever possible, electives in second languages.

Career opportunities stemming from a language major, an endorsement in bilingual/bicultural education or in teaching English as a second language may be found in business or in human service careers where bilingualism is valued. Career opportunities may also be found in research, editing, translation, technical writing, airline positions, the UN, and others. Teaching opportunities for language majors are to be found in colleges and secondary schools, in FLES (Foreign Language Elementary School) programs, and in bilingual/bicultural and teaching English as a second language programs.

Junior Year Abroad Program

Students interested in the Junior Year Abroad program should make an appointment with their major advisor who will give them the information they need about eligibility, procedures to be followed, types of programs approved by the College, credit transfers, etc. Semester programs are also available.

French Prerequisites

Required for enfrance to the French major is a minimum of 580 in the CEEB placement examination. Advanced placement may be obtained by scores of 600 or above.

Students with little or no French background who wish to major in French should complete FR 110, 111, and 112.

MAJ	OR REG	QUIREMENTS 30 ¢r	edits
FR	113	Intermediate French II	3
FR	222	Advanced French Conversation and Composition I	3
FR	223	Advanced French Conversation and Composition II	3
FR	230	Masterpieces of French Literature from Rabelais to Robbe-Grillet	3

WILLIAM PATERSON COLLEGE

FR	240	Cultural Heritage of France	3
or FR	241	Contemporary French	3
FR	331	Culture and Problems The Twentieth-Century French Novel	3
abov some Cou	ve the 2 e of the rses in	r French literature courses 200-level may be substitute above courses by adviser French literature in transl applied to major requirem	ed for ment. ation
		n additional 12 credits following:	from
FR	219	Commercial French	3
FR FR	220 320	Translating I Interpreting French Liter-	3 3 3
FR	333	ature The Modern French Theatre	3
FR	334	French Literature to 1600	3
FR	336	Great French Poetry from Villon to Our Times	3 3
FR	337	French Literature of Can- ada, the Antilles and Africa	
FR	350	Advanced French Phonetics and Grammar	3
FR	351	Tutorial Laboratory in French	3
FR FR	399 432	Selected Topics The Nineteenth-Century	3 3
FR	435	French Novel Seventeenth-Century French Tragedy and	3
FR	438	Comedy Literature of the French	3
		Enlightenment	•
FR FR	480 499	Senior Seminar Independent Study	3 3
MIN	OR REG	QUIREMENTS 18 C	redits
FR	113	Intermediate French II	3
FR	222	Advanced French Conversation and Composition I	3
or			
FR	223	Advanced French Conversation and Composition II	3
FR	230	Masterpieces of French Literature from Rabelais	3
FR	240	to Robbe-Grillet Cultural Heritage of France	3
or FR	241	Contemporary French Culture and Problems	3
three	e of w	additional six credits in Frontier and from the fallowing.	
		cted from the following:	_
FR FR	219 220	Commercial French Translating I	3 3
	0.00		_

cour	se sele	cted from the following:	
FR	219	Commercial French	3
FR	220	Translating I	3
FR	320	Interpreting French Lit-	3
	•	erature	
FR	331	The Twentieth-Century	3
		French Novel	
FR	333	The Modern French	3
		Theatre	

334	French Literature to 1600	3
336	Great French Poetry from	3
337	French Literature of Can-	3
	ada, the Antilles and	
	Africa	
350	Advanced French	3
	Phonetics and Grammar	
399	Selected Topics	3
432	The Nineteenth-Century	3
	French Novel	
435	Seventeenth-Century	3
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	336 337 350 399 432 435 438 480 499 Course	Great French Poetry from Villon to Our Times 337 French Literature of Canada, the Antilles and Africa 350 Advanced French Phonetics and Grammar 399 Selected Topics 432 The Nineteenth-Century French Novel 435 Seventeenth-Century French Tragedy and Comedy 436 Literature of the French Enlightenment 480 Senior Seminar

Note: Courses in French literature in translation may not be applied to minor requirements.

CERTIFICATION REQUIREMENTS 43 credits

Students interested in obtaining teaching certification in French must complete the following:

FR 350 Advanced French
Phonetics and Grammar

The 40-credit series, "Subject Field Certification (K-12) Requirements," listed on page 35.

Courses

All courses are for 3 credits unless otherwise noted.

FR 109 Introduction to French Culture and Language

Designed primarily to introduce the student to the culture of France across the ages. Cultural material is presented in English. The student's ability to understand basic and simplified French and speak at a "threshold level" is stressed.

FR 110 Basic French I*

Using oral modern French, this course provides the student with basic fluency in contemporary everyday French conversation. Reading and writing skills are developed logically from an aural-oral base. Prerequisite: 0-1 year high school French

FR 111 Basic French II*

Provides the student with ongoing development of contemporary conversational French and reading and writing skills beyond beginning level.

Prerequisite: FR 110 or equivalent

FR 112 Intermediate French 1*

Aural-oral presentation of such topics as travel, student life and problems, careers, sports and games, industry and the fine arts. Develops reading and writing skills beyond the basic level.

Prerequisite: FP 111 or two years of high

Prerequisite: FR 111, or two years of high school French or equivalent

*One hour lab work per week required

FR 113 Intermediate French II*

A continuation and intensification of Intermediate French I. The goal is a sophisticated level of comprehension and discussion. Guided readings of French short stories and newspaper and magazine articles or a novel.

Prerequisite: FR 112 or equivalent

FR 115 French Mini Course I† FR 116 French Mini Course II FR 117 French Mini Course III

An introductory series of courses in the language and culture of the French-speaking world. The aim is to develop the student's ability to understand, read, write and speak basic and simplified French. The basics of pronunciation and vocabularly and sentence structure are stressed; an introduction to French culture is included. Each mini course: 1 credit

FR 118 French for Students in the Natural Sciences

Through readings dealing with current scientific topics and selections from contemporary writings of French experts in various scientific and technological fields, students develop skill in reading current French scientific journals and publications independently. Includes a review of the relevant essentials of French grammar and practice in translating scientific texts into English. Prerequisite: Intermediate-level proficiency

FR 219 Commercial French

Training in understanding and drafting French commercial correspondence (letters and telex) and practice in oral communication in everyday secretarial situations. The course also familiarizes secretaries with those aspects of contemporary French civilization which are useful in dally work.

Prerequisite: Intermediate-level proficiency

FR 220 French: Translating I

An introductory course in the art and practice of translating from English into French and from French into English.

Prerequisite: Intermediate-level proficiency

FR 222 Advanced French Conversation and Composition I

Intensive oral and written practice in French on an advanced level. Practice in colloquial, idiomatic French, and the supplementary use of newspapers, magazines, and other media.

Prerequisite: Intermediate-level proficiency

FR 223 Advanced French Conversation and Composition II

Continuation and intensification of FR 222. Extensive incorporation of contemporary French cultural material in conversation and intensive practice in composition. Prerequisite: FR 222 or equivalent

†Students planning to take all 3 levels must register for all: levels during registration period.

FR 230 Masterpieces of French Literature from Rabelais to Robbe-Grillet

An introduction to the major literary trends and schools in France from the Renaissance to "nouveau roman." Selected readings from masters of each major literary period.

FR 240 Cultural Heritage of France

An introduction to the cultural heritage from medieval times through the nine-teenth century, including France's major contributions to Western thought and the arts and sciences.

Prerequisite: FR 222 or equivalent. May be taken simultaneously with FR 222

FR 241 Contemporary French Culture and Problems

Contemporary France, its thought, its life style, its contributions to contemporary Western culture. Examination and discussion of the major social and political problems of contemporary France. The impact and contribution of French films today.

Prerequisite: FR 222 or equivalent. May be taken simultaneously with FR 222

FR 300 Twentieth-Century French Literature and Translation

Through reading and critical discussion, students confront the ideas and tendencies reflected in the works of the major French writers of the twentieth century. Among the major writers represented are Proust, Gide, Colette, Beckett, Robbe-Grillet and Prévert.

FR 320 Interpreting French Literature

A theoretical presentation of the French method of stylistic analysis known as "explication de texte" and the application of this method to selected texts from various periods of French literature.

Prerequisite: FR 222 or equivalent

FR 331 The Twentieth-Century French Novel

A study of the novel of twentieth-century France, with particular attention to such authors as Gide, Proust, Mauriac, Sartre, Camus, Robbe-Grillet.

Prerequisite: FR 230 or equivalent

FR 333 The Modern French Theatre

Major dramatists and movements in France from the beginning of the century to the present. Emphasis on French existentialism through the theatre of the absurd. Prerequisite: FR 230 or equivalent

FR 334 French Literature to 1600

A study of the literature of medieval France. Prerequisite: FR 230 or equivalent

FR 336 Great French Poetry from Villon to Our Times

A study of the French poetic tradition and major poetic works from the late medieval period to post-surrealism.

Prerequisite: FR 230 or equivalent

FR 337 French Literature of Canada, the Antilles and Africa

Introduces students to the major genres, themes, and authors of Francophone literature outside of metropolitan France. Emphasis is on the intrinsic literary value of black and Canadian literature expressed in French and the cultural and social dimensions of these literatures.

Prerequisite: FR 230 or equivalent

FR 350 Advanced French Phonetics and Grammar

The French phonetic system, phonetic analysis and transcription, extensive practice in pronunciation, intonation, and diction. Practice in simple discourse and the oral reading of prose, poetry and dramatic literature. A systematic study of French grammar at an advanced level. Prerequisite: FR 113 or equivalent

FR 351 Tutorial Laboratory in French

Designed to provide experience, training and academic preparation for majors or minors who seek increased fluency and grammatical expertise. To be applied in Basic I level of French classes.

Prerequisite: At least second-year status in the major

FR 399 Selected Topics

Enrichment courses of special interest to French majors or minors. Chosen through faculty and student discussion. Prerequisite: FR 230 or equivalent

FR 432 The Nineteenth-Century French Novel

The French novel from Hugo to Zola. Analysis of the genre in the movements of romanticism, realism and naturalism. Readings from Hugo, Stendhal, Balzac, Flaubert, Zola and Maupassant.

Prerequisite: One 300-level course in French literature

FR 435 Seventeenth-Century French Tragedy and Comedy

The French classical tragedy, tragi-comedy and comedy. The major plays of Corneille, Racine and Molière in their contemporary and universal significance.

Prerequisite: FR 230 or equivalent

FR 438 Literature of the French Enlightenment

The transition from French classicism to the eighteenth-century revolt against authority and tradition. Selections from Montesquieu, Diderot, Voltaire, Beaumarchais. Introduction to the eighteenth-century French novel and psychological drama.

FR 480 Senior Seminar

In-depth study of a selected author or theme; e.g. women in French literature. Prerequisite: At least 21 credits completed in the major.

FR 499 Independent Study

As approved and to be arranged 1-3 credits

Spanish

Prerequisites

Required for entrance to the Spanish major are three or four years of high school Spanish, or a minimum of 580 in CEEB, or a near native fluency. Advanced placement may be obtained by standard examination or by decision of the Spanish Studies Committee.

MAJOR RE	QUIREMENTS 30 cr		
SPAN 113	Intermediate Spanish II	3	
SPAN 221	Spanish: The Spoken Language	3	
SPAN 222	Advanced Spanish Con-	3	
	versation and Composi- tion		
SPAN 230	Introduction to Spanish Literature I,	3	
or SPAN 231	Introduction to Spanish Literature II	3	
SPAN 240 ·		3	
SPAN 241	Hispanic Culture II: Spanish America	3	
Plus one co	ourse from each of the follow	ring	
Golden Ag	ıe '		
SPAN 331	The Golden Age of Spain	3	
SPAN 435	Cervantes and His Age	3	
SPAN 481	Spanish Seminar: Quevedo, The Spanish	3	
	Mystics, The Picaresque		
	Novel, others		
Nineteenth Literature	-and Twentieth-Century		
SPAN 330	Spanish Literature of the Twentieth Century	3	
SPAN 334	Romanticism in Spain: Prose and Poetry	3	
SPAN 434	The Nineteenth-Century	. 3	
•	Novel of Spain		
Spanish Åm	nerican Literature to 1900		
SPAN 430	The Literature of Spanish	3	
SPAN 432	America to Modernism	. 3.	
3PAN 432	The Novel in Spanish America I	3.	
SPAN 436	The Modern Spanish	3	
	American Essay		
•	nerican Literature: Modern		
SPAN 431	The Modern Literature of Spanish America	3	
SPAN 433	. The Novel in Spanish America II	3	
SPAN 480	Seminar: Spanish	3	
	America		
Spanish Drama			
SPAN 332	The Drama of the Golden	3	
SPAN: 335	Age Modern Spanish Ameri- can Drama	3	

The Romantic Theatre in

Spain

3

SPAN 337

WILLIAM PATERSON COLLEGE

MINO	r requ	JIREMENTS	18 credits
SPAN	221	Spanish: The Spoken Language	3
or			
SPÁN	222	Advanced Spanish C versation and Comp tion	
SPAN	230	Introduction to Span Literature I	ish 3
or			
SPAN	231	Introduction to Span Literature II	ish 3
SPAN or	240	Hispanic Culture I: Sp	pain 3
SPAN	241	Hispanic Culture II: Spanish America	3

Plus one course from each of the following three groups:

Golden Age

SPAN SPAN SPAN	435	The Golden Age of Spain Cervantes and His Age Spanish Seminar: Quevedo, The Spanish Mystics, The Picaresque Novel, others	3 3 3
		Novei, officis	

Spanish American Literature to 1900

SPAN 430	The Literature of Spanish		3
SPAN 432	America to Modernism The Novel in Spanish		3
SPAN 436	America I The Modern Spanish		3
0.7111 400	American Essay	_	Ŭ

Spanish Drama

SPAN 332	The Drama of the Golden	3
	Age	_
SPAN 335	Modern Spanish Ameri-	3
	can Drama	
SPAN 337	The Romantic Theatre in	3
	Spain	

CERTIFICATION REQUIREMENTS

Students interested in obtaining teaching certification in Spanish must complete the 40-credit series, "Subject Field Certification (K-12) Requirements," listed on page 35.

Courses

All courses are for 3 credits unless otherwise noted.

SPAN 109 Introduction to Spanish Culture and Language

An introductory course in the language and culture of Hispanic peoples. The basics of Spanish pronunciation and vocabulary, fundamental forms and rudiments of sentence structure. Cultural topics relevant to college students are discussed in English.

SPAN 110 Basic Spanish I*

Introduces the student to the basic elements of the Spanish language as used in contemporary Spanish conversation in everyday situations. The student is also exposed to basic forms of the written language and carefully graded readings aimed at widening his working vocabulary. Prerequisite: 0-1 year high school Spanish 4 credits

SPAN 110 Basic Spanish I (for health professions)

Introduces the student to the basic elements of the Spanish language as used in everyday medical/health-care situations in which conversation in Spanish is necessary. The student is also exposed to basic forms of the written language and carefully graded readings aimed at widening his working medical vocabulary.

SPAN 111 Basic Spanish II*

Aims at increasing the student's ability to use basic forms of oral communication in Spanish through constant use of the every-day idiom. Carefully graded practice in reading and writing supplements the conversational aspects of the course. Prerequisite: SPAN 110 or equivalent

SPAN 112 Intermediate Spanish I*

A thorough review of basic conversation followed by an aural-oral presentation of such topics as travel, student life, careers, sports, fine arts, industry, politics, etc. A review of the essentials of Spanish, development of a larger vocabulary, including idioms, discussion of selected short stories and other selected areas of interest to students are included.

Prerequisite: SPAN 111, or two years of high school Spanish or equivalent

SPAN 113 Intermediate Spanish II*

A continuation and intensification of Intermediate Spanish I. Guided discussion on a more sophisticated level. A variety of modern selections, prose and poetry, from the many Spanish-speaking countries such as Puerto Rico, Mexico, Cuba, Colombia, Argentina, etc. are integrated into the course.

Prerequisite: SPAN 112 or equivalent

SPAN 113 Intermediate Spanish II (for International management honors students)*

Through oral discussion of relevant readings, the student achieves a more sophisticated level of conversation. Emphasis on political, economic and business issues in Spanish America today.

Prerequisite: SPAN 112 or equivalent

SPAN 114 Contemporary Spanish for Native Speakers

A study of the oral and grammatical structure in today's standard Spanish. Intensive practice in oral and written composition. For native speakers only.

Prerequisite: Written permission of departmental Spanish advisor

SPAN 115 Spanish Mini Course I† SPAN 116 Spanish Mini Course II

*One hour lab work per week required.

SPAN 117 Spanish Mini Course III

The Spanish mini courses are introductory courses in the language and culture of the Hispanic world. Their aim is to develop the student's ability to understand, write and speak basic and simplified Spanish. The basics of pronunciation and vocabulary as well as those of sentence structure are combined with an introduction to Hispanic culture as it exists in the United States. Each mini course: 1 credit

SPAN 118 Spoken Spanish for Tourists

Develops the student's ability to speak, understand and read basic and simplified Spanish.

SPAN 120-121 Intensive Spanish I & II

A concentrated course in first- and secondyear spanish designed to develop the student's ability to read, write, understand, and speak everyday Spanish. Covers the basics of vocabulary, pronunciation and sentence structure. Readings and discussions enable the student to acquire the tools needed to master conversational skills. 6 credits

SPAN 198 Intensive Course in Conversational Spanish I

SPAN 199 Intensive Course in Conversational Spanish II

An intensive course designed to further develop the student's ability to understand, read, write and speak modern Spanish. Reviews the basics of vocabulary, pronunciation and sentence structure and teaches the student a more sophisticated level of conversation.

Each course: 3 credits

SPAN 200 Introduction to Spanish Culture and Literature

An introduction to the cultural and literary heritage of Spain and Spanish America from medieval times to the present.

SPAN 220 Spanish: Translating I

An introductory course in the art and practice of translating from English into Spanish and from Spanish into English. Material is divided into three segments: practice in bilingual translation of simple narrative, descriptive and expository material with emphasis upon fundamental structural comparison; analysis of bilingual renditions of selected well-known literary passages with emphasis on fundamental comparative stylistics and with some student practice in translation; practice in bilingual translation of basic business correspondence.

Prerequisite: Intermediate-level proficiency

SPAN 221 Spanish: The Spoken Language

A guided introduction to the basic problems of the Spanish language based on structural and descriptive analysis of the Spanish sound system. Throughout the course emphasis is placed on the spoken language.

Prerequisite: Intermediate-level proficiency

[†]Students planning to take all 3 levels must register for all levels during the registration period.

SPAN 222 Advanced Spanish Conversation and Composition

Advanced oral and written communication with practical application of contentand theory in speaking and oral reading situations. Analysis of various writings to discover principles and techniques to be applied by the student in his own writing. Prerequisite: Intermediate-level proficiency

SPAN 230 Introduction to Spanish Literature I

Survey of Spanish literature from the beginning to 1700.

Prerequisite: Intermediate-level proficiency

SPAN 231 Introduction to Spanish Literature II

A survey of Spanish literature from 1700 to the present.

Prerequisite: Intermediate-level proficiency

SPAN 240 Hispanic Culture I: Spain

Synthesis of the cultural characteristics of Spain, as expressed through the centuries in literature, art, philosophy and social institutions.

Prerequisite: Intermediate-level proficiency

SPAN 241 Hispanic Culture II: Spanish America

Synthesis of cultural characteristics of Spanish America, as expressed through the centuries in literature, art, philosophy and social institutions.

Prerequisite: Intermediate-level proficiency

SPAN 300 Twentieth-Century Spanish Literature in Translation

A selective study of the major literary figures and significant trends in twentieth-century Spanish literature. Emphasis is on such figures as Baroja, Unamuno, Ortega y Gasset, A. Machado, Jiménez, Salinas, Lorca, Guillén and Cela.

SPAN 301 Masterpieces of Spanish Literature in Translation

Some masterpieces of Spanish literature are discussed from the point of view of their universal appeal. Don Quixote by Cervantes; The Cid; Life is a Dream by Calderón; the Celestina; and Tirso de Molina's dramatic prototype of Don Juan.

SPAN 302 Caribbean Culture and Literature of the Twentieth Century.

A study, conducted in English, of the Spanish American social and literary traditions in the Caribbean area (Dominican Republic, Puerto Rico, and Cuba) and their major cultural works from the beginning of modernismo to the present. Representative works of Hostos, Martí, Henriquez, Ureña, Loynaz, Lloréns Torres, Brull, Palés Matos, Florit, Guillén, del Cabral, Marqués, Bosch, Carpentier, Laguerre, others.

SPAN 330 Spanish Literature of the Twentieth Century

Selective study of major literary figures and significant trends in twentieth-century Spanish literature. Emphasis on such figures as Baroja, Unamuno, Azorin, Valle-Inclán, Ortega y Gasset, Benavente, Pérez de Ayala, Machado, Jiménez, Salinas, Lorca, Guillén, Aleixandre, Sastre, Gironella, Cela and Laforet.

Prerequisite: Intermediate-level proficiency

SPAN 331 The Golden Age of Spain

The great creations of the Spanish Golden Age, El Lazarillo de Tormes and El Buscón, are read as examples of picaresque novels. Fray Luis de León, Santa Teresa de Jesús and San Juan de la Cruz are read as examples of mystical literature. An introduction to Novelas Ejemplares and Don Quixote is also included.

Prerequisite: Intermediate-level proficiency

SPAN 332 The Drama of the Golden Age

A study of the development of the national theatre of Spain through the plays of Lope de Vega, Tirso de Molina, Mira de Amescua, Calderón de la Barca, Alarcón, Guillén de Castro and others.

Prerequisite: Intermediate-level proficiency

SPAN 333 The Literature of Spain until the Renaissance

A study of early literature of Spain from the Cantar de Mio Cid to La Celestina. Writers such as the Arcipreste de Hita, Don Juan Manuel and Fernando de Rojas are read intensively.

Prerequisite: Intermediate-level proficiency

SPAN 334 Romanticism in Spain: Prose and Poetry

A study of poetry and prose of the Spanish romanticists. In the Post-Romantic period special attention is given to Bécquer and the aesthetics of the new poetry.

Prerequisite: Intermediate-level proficiency

SPAN 335 Modern Spanish American Drama

A study of representative dramatists from 1900 until the present. Writers included are Florencio Sánchez, Usigli, Marqués, Wolff, Arrivi, Solórzano, Dragún and Villaurrutia. Prerequisite: Intermediate-level proficiency

SPAN 336 Modernismo

A study of the modernismo literary movement in Spanish America, from its beginning in 1882 to its conclusion in approximately, 1917. Includes representative works of Marti, Gutiérrez Nájera, del Casal, Silva and Darío, who make up the so-called first generation of modernist writers; Darío, Lugones, Herrera y Reissig, Valencia, Chocano, Nervo, Diaz Rodriguez, Reyles and others who comprise the second generation.

Prerequisite: Intermediate-level proficiency

SPAN 337 The Romantic Theatre in Spain

The emergence and development of the romantic theatre in Spain; in-depth study of such works as Don Alvaro o la fuerza del sino, El Trovador, Don Juan Tenorio and Los amantes de Teruel.

Prerequisite: Intermediate-level proficiency

SPAN 430 The Literature of Spanish America to Modernism

A study of main developments, literary currents and representative authors from the colonial period until 1888.

Prerequisite: Completion of one 300-level course in Spanish

SPAN 431 The Modern Literature of Spanish America

A study of main developments, literary currents and representative authors from 1888 until the present.

Prerequisite: Completion of one 300-level course in Spanish

SPAN 432 The Novel in Spanish America I

A study of selected novels representative of such movements and literary currents as romanticism, realism, naturalism and modernismo in Spanish America.

Prerequisite: Completion of one 300-level course in Spanish

SPAN 433 The Novel in Spanish America II

A study of selected novels of the Mexican Revolution and representative novels of such movements as regionalismo, criollismo and realismo mágico, among others

Prerequisite: Completion of one 300-level course in Spanish

SPAN 434 The Nineteenth-Century Novel of Spain

A selective study of the major novelists and significant trends in the nineteenth-century Spanish novel. Emphasis is on such figures as Alarcón, Pereda, Valera, Galdós, Pardo Bazán and Alas.

Prerequisite: Completion of one 300-level course in Spanish

SPAN 435 Cervantes and His Age

A study of Cervantes' artistic creation and its relation to the culture of the sixteenth century. Special emphasis is given to **Don Quixote** and the development of the novel as a genre.

Prerequisite: Completion of one 300-level course in Spanish

SPAN 436 The Modern Spanish American Essay

A selective study of the representative essay writers in Spanish America. Emphasis is placed on major opinion shapers, such as Varona, de Hostos, Rojas, Reyes, Henrlquez Ureńa, Picón Salas, Arciniegas, Mariátegui, others.

Prerequisite: Completion of one 300-level course in Spanish

SPAN 480 Seminar: Spanish America

Puerto Rican literature: José Martí, Rubén Darío, others.

Prerequisite: One 300-level course in Spanish American literature

SPAN 481 Seminar: Spain

An in-depth study of a selected author or theme, such as Quevedo, the Spanish Mystics, the picaresque novel, others.

Prerequisite: One 300-level course in Spanish literature

SPAN 499 Independent Study

As approved by the department. 1-3 credits

Teaching Endorsements

To obtain an endorsement as a teacher in bilingual/bicultural education or English as a second language, complete the appropriate program below, combined with a bachelor's degree program leading to teaching certification.

BILIN	GUAL/	BICULTURAL	
	ATION		lits
TBED ·	301	Theories and Practices in Bilingual Education and E.S.L	3
TBED	303	Social and Psychological Development of the Bi- lingual Child	3
TBED	304	Curriculum Development and Evaluation in Bi- lingual Education	3
TBED	305	Language and Culture of Hispanic Peoples	3
TBED	309	Introduction to Linguistics	3
TBED	318	Field Experience (Spanish)	3
or	240	Field Foresides as (Entertible)	2
TBED TBED	319 402	Field Experience (English) Methodology of Second Language Teaching	3
Plus	one	bilingual/bicultural course.	or
prac*	ticum.		

Note: The state language proficiency examinations in English and in Spanish or another foreign language must be passed.

LANGU		- 30 credit	S
TBED 3	301	Theories and Practices in Bilingual Education and E.S.L.	3
TBED :	302	Language and Culture of Hispanic Peoples	3
TBED :	303	Social and Psychological Development of the Bil- ingual Child	3
TBED :	305	Language and Culture of Caribbean Peoples	3
TBED :	309	Introduction to Linguistics	3
TBED :	319	Field Experience (English)	3
ENG 4	401	Linguistics and Grammar	3
ENG (402	Development of the English Language	3

ENGLISH AS A SECOND

Plus one course in a language other than English, and one linguistics course or other suitable course by advisement.

Note: The state language proficiency examination in English must be passed.

Courses

Unless otherwise noted, all courses are for 3 credits.

TBED 301 Theories and Practices of Bilingual Education and English as a Second Language

Examines the history of bilingual education in the U.S.A. and discusses the basic philosophy of bilingual education through an analysis of various known models of bilingual programs.

TBED 302 Language and Culture of Hispanic Peoples

Deals with the linguistic, socio-political and cultural aspects of the Spanish-speaking world. The history of the Iberian penninsula, the colonization of Latin America and its subsequent struggle for independence, and the language and culture of the Hispanic people who have immigrated to the United States are covered.

TBED 303 Social and Psychological Development of the Bilingual Child

Examines the problems faced by Hispanic children in urban American schools as a result of linguistic, cultural, social and psychological factors.

TBED 304 Curriculum Development and Evaluation in Bilingual Education

A critical analysis of current models of bilingual/bicultural programs. Students are guided in the development of bilingual materials in their fields of interest. Creative use of audio visual materials is stressed.

TBED 305 Language and Culture of Caribbean Peoples

Examines linguistic, cultural and social factors affecting the psychological and intellectual development of Hispanic children of the Caribbean as they develop in their natural physical and social environment.

TBED 309 Introduction to Linguistics

Provides basic information about the analysis and description of language and how human beings use language to communicate with one another, and familiarizes students with the linguistic terminology needed for more specialized linguistic courses.

TBED 318 Field Experience (Spanish)

A field experience in a bilingual school program approved by the Bilingual Office of the College, one full day per week for the semester, arranged by the College. The student serves as observer and teacher's aide. Emphasis is on participation in a bilingual teaching situation. In addition, practicum seminars are conducted in alternate weeks.

Prerequisites: Three courses in the program and prior application with the Office of Field Laboratory Experiences

TBED 319 Field Experience (English)

A field experience in a bilingual school program approved by the Bilingual Office of the College, one full day per week for the semester, arranged by the College. The student serves as observer and teacher's aide. Emphasis is on participation in a bilingual teaching situation. In addition, practicum seminars are conducted in alternate weeks.

Prerequisites: Three courses in the program and prior application with the Office of Field Laboratory Experiences

TBED 400 Teaching Reading in Spanish to Spanish Children

Geared toward the development of new approaches that will make learning to read pleasurable. Attained by associating the immediate environment with the written symbols so as to awaken the potentialities of the learner.

Prerequisite: Knowledge of the four communication skills in Spanish

TBED 402 Methodology of Second Language Teaching

Emphasizes language techniques and methods necessary to teach a second language to students. Attention is given to the audio-lingual approach and how it differs from the formalistic reading-writing methods taught in English.

Other Languages Chinese

CHIN 110 Basic Chinese I*

Provides students with a basic understanding of Chinese pronunciation, grammar and knowledge of some Chinese characters and basic vocabulary. Emphasis is on drilling aural comprehension and elementary speaking of standard Chinese.

CHIN 111 Basic Chinese II*

A continuation of **Basic Chinese I**. Equal attention given to speaking, reading and writing. Writing consists of exercises in calligraphy and translation of simple sentences. Students are taught how to use a Chinese-English dictionary.

Prerequisite: CHIN 110 or equivalent

CHIN 112 Intermediate Chinese I*

Following continued training in fluent and accurate speech, students learn new vocabulary and more complicated sentences. Stress on the understanding and absorbing of sentence patterns which serve as a foundation for further study. Students also learn the simplified Chinese characters of contemporary communist literature.

Prerequisite: CHIN 111 or equivalent

CHIN 113 Intermediate Chinese II*

An intensification of CHIN 112. Students are introduced to a variety of topics in modern Chinese and work toward the goal of recognizing approximately 1200 lexical items, including 1000 characters. Students also learn how to write short compositions.

CHIN 115 Chinese Mini Course I† CHIN 116 Chinese Mini Course II CHIN 117 Chinese Mini Course III

Designed for beginners who are interested in but reluctant to study, the Chinese language. Contains three levels in sequence. A student earns one credit at each level completed. Provides students with some basic knowledge of Chinese characters, pronunciation, grammar and sentence patterns.

Each mini course: 1 credit

CHIN 120 Conversational Chinese

Designed to meet the needs of students who have completed basic and intermediate Chinese language courses and who desire to continue learning this language. Particular attention paid to improving speaking ability.

Prerequisite: CHIN 113 or equivalent

CHIN 198 Intensive Course in Conversational Chinese I

CHIN 199 Intensive Course in Conversational Chinese II

Designed for students who desire to master the Chinese language as quickly as possible. Students learn characters, grammar and various sentence patterns. Equal attention is given to reading, speaking and writing. Since fluency in speaking and facility in reading Chinese can only be achieved by constant practice, students must practice intensively. 3 credits each

*One hour lab work per week required. †Students planning to take all 3 levels must register for all levels during registration period.

CHIN 200 Introduction to Chinese Culture and Literature

An introduction to the cultural and literary heritage of China from its beginnings to the present time. The course, taught in Chinese, aims at a better understanding of Chinese culture and literature through the study of its sublime literary masterpieces.

CHIN 221 Chinese: The Spoken Language A guided introduction to the phonology of modern Chinese based on a descriptive and structural analysis of the Chinese sound system. Features the Peking dialect, the standard mode of speech all over China and the chief basis of Putonghua, the national language.

Prerequisite: Intermediate-level proficiency

CHIN 222 Advanced Chinese Conversation and Composition I

Concentrates on consolidating the foundations of pronunciation, grammar and character writing built in the first two years of study. Emphasis on discussing topics of general interest and writing essays.

Prerequisite: Intermediate-level proficiency

CHIN 223 Advanced Chinese Conversation and Composition II

A continuation of CHIN 222. Provides a wide range of more advanced vocabulary and a number of common sayings, as well as a metaphorical use of common words which form part of the verbal and cultural backgrounds of Chinese people.

Prerequisite: CHIN 222 or equivalent

CHIN 300 Introduction to Chinese Literature (in English)

Aims at a basic knowledge of Chinese literature through the study of its literary masterpieces. Students become acquainted with some of the poetry, drama and novels of the leading Chinese authors.

CHIN 310 Oriental Literature in Translation

Aims to give students a first glimpse of the wide and fertile field of Asian literature. Students become acquainted with some of the major Chinese and Japanese authors. Selections are chosen with attention to the best understanding of the mind and thought of Asian people. Among the authors studied are Wu Ch'eng-En, Feng Meng-lung, LiPo, Ts'ao Hsueh-ch'in, King Shingtan, Murasaki, Kanami, Seami, Kawabata and Motoyasu.

CHIN 320 Introduction to Chinese Culture

Offers students a first glimpse at Chinese culture. Particular attention is given to the intellectual foundation of Chinese civilization. Deals with Chinese religious conception, Confucianism, Taoism, Mo Tzu, Buddhism and social changes in the past hundred years.

CHIN 499 Chinese Independent Study As approved by the department. 1-3 credits

German

GER 110 Basic German I*

Intensive aural-oral practice, stressing the acquisition of the dual skills of listening comprehension and speaking; emphasis on everyday German. Reading of graded material in diverse areas of interest.

GER 111 Basic German II*

Reinforcement of aural comprehension and speaking ability. Current Idiom, as used in meaningful context, is emphasized. Enhancement of reading ability by means of programmed readers.

Prerequisite: GER 110 or equivalent

GER 112 Intermediate German I*

Refinement and introduction to the subtlety of oral expression. Guided discussion of questions of topical interest. Reading of the more formal and intricate language of unedited texts; supplementary readings from newspapers, magazines and journals. Prerequisite: GER 111, or two years of high school German or equivalent

GER 113 Intermediate German II*

Development of free conversation with the aid of newspapers, magazines, tapes, recordings. Topics of contemporary interest provide a basis for an up-to-date, comprehensive view of Germany.

Prerequisite: GER 112 or equivalent 4 credits

GER 120 Scientific German

Designed for potential science majors and minors. Students receive guidance in reading current scientific and technological journals independently.

GER 499 German Independent Study

As approved by the department. 1-3 credits

Greek

GR 110 Classical Greek for Beginners I

An introductory course which provides the student with the basic elements of classical Greek. Primary emphasis is on structure and morphology; the aim is a graded reading knowledge. Since classical Greek is a nonliving language, classes expose the student to translation of simple grammatical forms and sentences in order to develop an extensive vocabulary.

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GR 111 Classical Greek for Beginners II

Probes deeper into the reading and translation of complex forms of classical Greek. Primary emphasis is on syntax. Students are exposed to simple readings and translations of famous works of classical writers and taught how to handle variations of words with the did of a dictionary in order to translate written material.

GR 499 Greek Independent Study

As approved by the department. 1-3 credits

Hebrew

HEBR 110 Basic Hebrew I*

The elements of Hebrew: elementary conversation, writing, fundamentals of grammar and reading of simple texts.

HEBR 111 Basic Hebrew II*

Continuation of Hebrew I: readings of texts of medium difficulty, conversation and more complicated grammatical structures.

HEBR 112 Intermediate Hebrew I*

HEBR 113 Intermediate Hebrew II*

Students are exposed to Hebrew literature in the form of simplified literary selections. The expression of a wider range of ideas is the goal of basic conversation.

HEBR 499 Hebrew Independent Study

As approved by the department. 1-3 credits

Italian

IT 110 Basic Italian I*

Designed for students with no previous knowledge of Italian; aims at developing basic Italian speech patterns. After a thorough study of Italian pronunciation and intonation, the student develops a basic Italian vocabulary and learns how to use the Italian verb.

IT 111 Basic Italian II*

Aims at reinforcing and continuing to develop basic Italian speech patterns and at imparting the basic foundations in the four language skills, i.e. understanding, speaking, reading and writing.

IT 112 Intermediate Italian I*

Designed for students who have a basic proficiency in Italian. Aims at strengthening the four language skills. Basic language patterns are reviewed, and new ones assimilated through conversation, reading and composition.

Prerequisite: IT 111, or two years of high school Italian or equivalent

*One hour per week lab work required.

IT 113 Intermediate Italian II*

Aims at strengthening further the four language skills, i.e. understanding, speaking, reading, writing through an essentially audio-lingual approach and the reading and discussion of literary selections. Prerequisite: IT 112 or equivalent

IT 200 Introduction to Italian Culture and Literature

An introduction to the cultural and literary heritage of Italy from its beginnings to the present time.

IT 230 Twentieth-Century Italian.Literature

A study of the significant trends, major prose writers and poets of modern Italian literature: Pirandello, Silone, Pavese, Montale, Ungaretti, and others.

IT 300 Twentieth-Century Italian Literature in Translation

A study of selected writers who illustrate the main currents of twentieth-century Italian literature: Pirandello, Montale, Moravia, Pavese, Betti, Ungaretti, and others.

IT 499 Italian Independent Study

As approved by the department.
1-3 credits

Japanese

JPAN 110 Basic Japanese I*

Begins with an introduction to the Japanese sound system and to the romanization used in the textbook. Students are taught simple Japanese sentences with vocabulary introduced in a natural context and introduced to the hiragana and katakana syllabaries. Equal attention is given to listening, speaking, reading and writing.

JPAN 111 Basic Jápanese II*

A more in-depth study of the Japanese sound system and the romanization used in the textbook. Students are taught more challenging vocabulary and sentence structure. The hiragana and katakana syllabaries are studied as well. Equal attention is given to speaking, reading, writing and comprehension.

JPAN 112 Intermediate Japanese I*

The course, designed as a continuation of Basic Japanese I and II, further increases the students' knowledge of Japanese grammar, vocabulary and idloms, and characters, building on the previously acquired foundation in Japanese.

Prerequisite: JPAN 111 or equivalent

JPAN 113 Intermediate Japanese II*

A continuation of Intermediate Japanese I. Further increases the students' knowledge of Japanese grammar, vocabulary and idioms, and characters, building on the previously acquired foundation in Japanese. Prerequisite: JPAN 112 or equivalent

JPAN 115 Basic Japanese Mini Course I† JPAN 116 Basic Japanese Mini Course II JPAN 117 Basic Japanese Mini Course III

Begins with an introduction to the Japanese sound system and to the romanization used in the textbook. Students are taught simple Japanese sentences, which introduce new vocabulary in a natural context. Equal attention is given to listening, speaking, reading and writing. Toward the middle of the course, the hiragana and katakana syllabaries are introduced. Each mini course: 1 credit

JPAN 499 Japanese Independent Study

As approved by the department. 1-3 credits

Latin

LAT 110. Latin for Beginners I

Introduces the basic elements of classical Latin. The student is exposed to the cultural and historical background of the Romans as a means of understanding the Roman contribution to our age and culture.

LAT 111 Latin for Beginners II

Reading and translating complex forms of classical Latin, stressing correlations with the English language.

Prerequisite: LAT 110, or high school equivalent

LAT 499 Independent Study

As approved by the department 1-3 credits

Portuguese

PORT 110 Basic Portuguese I

PORT 111 Basic Portuguese II

An introductory two-part course in modern Portuguese. The skills of understanding, speaking, reading and writing Portuguese are developed insofar as the realities and limitations of learning a foreign language in a classroom allow. Cultural information about Portugal, Brazil and other Portuguese-speaking countries is provided in conjunction with the acquisition of the language skills.

Russian

RUS 110 Basic Russian I*

An introduction to the Russian language, familiarizing the student with the Russian alphabet and Russian pronunciation, elementary grammar and conversation.

RUS 111 Basic Russian II*

A continuation of **Basic Russian I**; more detailed study of grammar, practice in reading, writing, comprehension and speaking.

RUS 112 Intermediate Russian I*

A review of grammar fundamentals, followed by a study of advanced grammatical structure and idiom; reading of a variety of texts, composition and conversation.

RUS 113 Intermediate Russian II*

A continuation of Intermediate Russian I. Selected problems in grammar, sentence structure and idiomatic expression; a series of readings of moderate difficulty, with emphasis on reading comprehension and conversation.

RUS 115 Russian Mini Course I† RUS 116 Russian Mini Course II RUS 117 Russian Mini Course III

An introduction to the Russian language. The aim is to develop the student's ability to understand, read, write and speak basic and simplified Russian.

1 credit each mini course

RUS 499 Russian Independent Study As approved by the department.

1-3 credits

*One hour lab work per week required. †Student planning to take all 3 levels must register for all levels during registration period.

Department of History

Professors—J. Brandes, J. Drabble, M. Edelstein (chairperson), C. Gruber, D. Li **Associate Professors**—V. Caporale, R. Miller, I. Nack, T. Ripmaster, G. Satra **Emeritus**—W. Baumgartner, L. Ellis

The history major may concentrate in American or European history. Courses in Asian and Latin American history are also offered. The courses examine economic, social, intellectual, political and diplomatic history, and aim at developing the techniques of historical investigation, as well as increasing a student's ability to critically interpret the past.

MAJOR REQUIREMENTS 33 credits Hist 102 Western Civilization Since 1648 205 HIST United States History 3 to Civil War United States History HIST 206 3 Since the Civil War

Plus 21 additional credits selected as follows:

tory. This course may be at the $200_7 300$ -or 400-level and cannot count towards elective requirements.

Plus 21 additional credits selected as follows:

1 course of completely free electives a	t the
200-, 300-, or 400-level.	3
4 courses at the 300-level	12
1 course at the 400-level	3
1 course at the 300- or 400-level.	3

Note: No more than 18 credits, including 6 credits of American and European history and 3 in non-Western history, can be in any one area of concentration; i.e., American, European or non-Western history. This means that only 4 of the 6 elective courses can be in any one area.

CERTIFICATION REQUIREMENTS 64 credits

Students who are interested in obtaining teacher certification in history must complete the following:

Academic Content Requirements 24 credits

One of the following African and Afro-American studies courses:

ican studies	s courses:	
AAAS 110	Afro-American History	3
	to 1865	
AAAS 111	Afro-American History	3
	since 1865	
AAAS 300	The Black Family	3
AAAS 315	Afro-American Back-	3
	ground for Teachers '	
One of the	following economics courses	:
ECON 201	Macroeconomic Prin-	3
	ciples	
ECON 202	Microeconomic Prin-	3
	ciples	
ECON 230	Economics of the Environ-	3
	ment	

Plus one course in each of the following areas:

Geography	3
Political Science	3
Sociology/Anthropology	3
European History	3
Plus two American history courses	6

Secondary Education (K-12) Requirements 40 credits

Completion of the 40-credit series, "Subject Field Certification (K-12) Requirements," listed on page 35.

Courses

Unless otherwise noted, all courses are for 3 credits.

European History

HIST 101 Western Civilization to 1648

The first of a two-semester sequence, this course deals with the institutions and ideas representative of the cultures of medieval and early modern Europe and begins with an introduction to the classical and religious foundations of medieval civilization.

HIST 102 Western Civilization Since 1648

The second of a two-semester sequence, this course is designed to give broad coverage of the shaping of modern Western civilization. It traces political, intellectual, social and economic trends from 1648 to the present.

HIST 231 Greek Civilization

Covers the cultural background of ancient Greece and the rise and fall of Athenian democracy. Thucydides and other commentators are used for a critical study of the great issues of Greek civilization.

HIST 232 The Roman Republic

A study of Roman history with emphasis on internal political developments. Focus is on Roman originality in developing concepts of constitutional government and rule of law. The Roman political system, adopted as a model by the founding fathers of the United States, is evaluated in terms of its success and failure in solving the complex problems of a rapidly expanding economy, and as a political influence.

HIST 233 Europe in the Middle Ages

The early Middle Ages and the emergence of medieval order; fact and theories of the relations between church and state; Europe in the High Middle Ages; the development of secular and urban society; formation of nation states; the artistic and intellectual culture of castle, cathedral and university.

HIST 241 History of Christianity

A history of Christianity from the ancient world to the present, primarily in its European setting. Focus is on the reciprocal impact of the forms, thought and organization of the Christian religion and society and culture.

HIST 301 Social History of Modern Europe

Covers the evolution of European society from a "pre-industrial society" in the eighteenth century, through an "industrial society" in the nineteenth and twentieth centuries, to a "post-industrial society" in the late twentieth century and introduces students to the objectives, methodology and sources of social history.

HIST 310 Modern France Since 1815

The development of France, one of the first democratic republics, from the Bourbon Restoration in 1814 through the Fifth Republic today, featuring a multi-faceted approach to French history. Emphasis is on continuity versus change, and stability versus instability. The course explores the reasons for France's decline and later resurgence as a European power.

HIST 330 Russia: Tsars and Peoples

An examination of the society and culture of medieval Russia is followed by an inquiry into the conditions leading to the rise of the state of Muscovy and the empire of the Tsars into the nineteenth century.

HIST 331 Russian Revolution

After an inquiry into the causes and effects of the revolutions of 1905 and 1917, a study is made of the Soviet regime under Lenin, Stalin, Malenkov, Khrushchev, Brezhnev and Kosygin. Attention is given to internal industrial, agricultural, social, political and cultural development as well as to the role of the Soviet Union in world affairs.

HIST 332 Tudor-Stuart England

Explores the England of Henry VII to Queen Elizabeth, the social and political opposition to the early Stuarts, the English Civil War, the regime of Oliver Cromwell, the Restoration, the Glorious Revolution and the growth of political stability after 1689.

HIST 333 Modern Britain

Surveys key political developments in Great Britain since the 1780's. Main emphasis is on the development of those social, economic, religious and educational developments which produced modern British society.

HIST 334 The Italian Renaissance and Its Influence on Europe

The convulsions of the Renaissance and the Reformation—which, by attacking the medieval system of ideas and instruction, gave birth to the modern conception of man, life, society and nature—are analyzed by focusing on the city of Florence. Particular emphasis is placed on the shaping of two new types of human personality: the humanistic and the puritanical.

HIST 335 The Scientific Revolution

Covers the period from the Renaissance to the Enlightenment and shows how changing concepts about the position and importance of the earth within the solar system and the universe affected an entire style of scientific and philosophic thinking.

HIST 336 Europe in the Age of Revolution: 1789-1848

Examines the transformation of Europe between 1789 and 1848 in terms of what has been called the "dual revolution"—the French Revolution of 1789 and the contemporaneous Industrial Revolution in Britain. Special emphasis placed on the revolutionary movements from 1789 to 1848 which give this period a certain unity.

HIST 337 Triumphant Materialism: Europe 1848-1914

European history from the close of the revolutionary era of 1848 to the outbreak of the First World War. Major emphasis is on liberalism and nationalism; imperialism and world politics; the late phases of the industrial revolution; cultural developments, and the coming of the war.

HIST 338 Europe Since 1914

Major political, economic, social and intellectual developments in Europe since 1914. The internal and diplomatic history of the Great Powers, the economic and political transformation of Europe under the impact of an American-Soviet rivalry, and the intellectual record of the age are discussed.

HIST 340 Germany from Bismarck through Hitler

Covers Germany's history from 1848 to 1945 with an emphasis on Germany's involvement in the wars from the Franco-Prussian War to World War II.

HIST 342 Soviet Foreign Policy

Examines the history of Soviet foreign policy from the Revolution in 1917 to the present and traces the forces, events, personalities and issues that have interacted to produce the patterns of Soviet behavior in the international arena during the times of Lenin, Stalin, Khrushchev and Brezhnev.

HIST 343 England in the Age of the American Revolution

A social and political history of England, 1740-1820. Explores the impact of three revolutions—the Industrial, the American and the French—on the older institutions of the realm. Students examine the Industrial Revolution, analyze the varied responses of the political leaders, the new radicals and the Irish patriots to the American and French Revolutions, and reflect on how this age produced a new economy, a new society and a new form of politics.

HIST 430 The French Revolution and the Napoleonic Era

Examines crucial periods such as the Revolution of 1789, the Year II—the revolutionary dictatorship and the Terror—and the Napoleonic era. While political history is stressed, great emphasis is placed on social history.

HIST 432 Intellectual History of Ancient and Medieval Civilizations

An examination of the artistic; practical (ethical and political), theoretic and religious thought of ancient and medieval civilization in the West.

HIST 442 Industrial Revolution in Europe

The central theme is the evolution of Western European economic dominance in the modern era. Particular emphasis is given to the Industrial Revolution, the growth of free trade, overseas economic expansion, the export of capital, external completion and social economic reform.

United States History

HIST 205 U.S. History to the Civil War

The first of a two-semester sequence required of history majors. Covers American history from the beginning of exploration through Reconstruction. Open to all students.

HIST 206 U.S. History Since the Civil War

The second of a two-semester sequence required of history majors. Covers the period from Reconstruction to the present. Open to all students.

HIST 210 Labor History through Film

An examination of labor history from the nineteenth century to the present, particularly in the United States, through the study of films depicting the conditions and struggles of working people, accompanied by collateral readings and discussions. The films range from animated cartoons to slides, documentaries and feature-length masterpieces, such as "How Green Was My Valley," "Sacco and Vanzetti" and "The Grapes of Wrath."

HIST 220 Origins of the Nation to 1789

Begins with the European discovery of America. Traces the planting of the English colonies in America, the growth of conflict between colonies and the mother country, and the establishment of an independent national government.

HIST 228 History of New Jersey

An examination in historical perspective of political, economic and social institutions of New Jersey and the influence of adjacent areas.

HIST 239 U.S. Jewish Community

Focusing on the historic development of the American Jewish community from colonial to recent times, this course examines such vital issues in American society as ethnicity, cultural identity and inter-group relations.

HIST 320 Jeffersonian and Jacksonian Democracy (1789-1840)

An inquiry into the origins of Jeffersonian and Jacksonian democracy is followed by a consideration of their immediate impact and lasting significance. Economic, social, and political aspects are studied and comparisons made with developments in other nations.

HIST 321 Era of the Civil War (1840-1877)

An investigation of the causes and effects of the beginnings of modern industry and the expansion of slavery, a study of the abolitionist movement, the sectional conflict, the Civil War and Reconstruction with emphasis on their long-range impact on the white and black peoples of the United States

HIST 322 Progress, War and Normalcy (1877-1933)

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A survey of rapid economic growth with its impact on business, labor and agriculture followed by discussion of social and political developments, including urbanization and "progressivism." Attention is focused on the rise of overseas imperialism, the First World War, the League of Nations and concludes with an examination of the "booming twenties" and the Great Depression

HIST 323 From New Deal to Cold War (Since 1933)

An in-depth examination of the "Great Depression" of the 1930's with an appraisal of New Deal domestic and foreign policies, followed by a study of World War II and the United States' role in world affairs through the post-war decades. Changing political, social and economic issues confronting the post-war generation are assessed against the background of world developments.

HIST 324 Social and Cultural History

Emphasis on the developing ways of life of the American people and the ideas and elements of culture which have influenced American society.

HIST 325 Immigration in the Growth of America

Exploring John F. Kennedy's theme of "A Nation of Immigrants," the course focuses on the mass migrations which shaped American development into the twentieth century. The causes of immigration, the economic and cultural adjustment of the newcomers, and their impact are studied in the light of historical evidence.

HIST 326 Foreign Relations to 1898

Explores the techniques by which the United States expanded from a string of weak and isolated coastal colonies at the end of the eighteenth century to a great transcontinental power by the end of the nineteenth century. The "imperial vision" that guided the makers of foreign policy is analyzed, and the relationship between domestic developments and foreign policy is stressed.

HIST 327 Foreign Relations Since 1898

Traces developments in United States foreign policy from emergence as a world power at the opening of the twentiethcentury to her position of world dominance after the Second World War. The ideological underpinnings of American strategy and tactics on the world stage, U.S. role in major twentieth-century wars—hot and cold—and the current confusion in U.S. foreign policy are stressed.

HIST 328 Economic History of the United States

(also listed as **ECON 380**)

Emphasizes economic elements, including the use of human and natural resources, in the historic growth of the United States from colonial to recent times.

HIST 403 Interpreting U.S. History

Primarily for students with a special interest in American history. Provides an opportunity to critically examine areas in which important reinterpretations have been made or in which controversy exists among scholars.

Asian History

HIST 207 Non-Western Civilization: China

A broad review of the development of Chinese civilization from ancient to modern times. Examines the "spirit" of each period and the accumulated effect of innovations and changes on the formation of modern China.

HIST 265 Modern Japan

Intended to introduce the history of modern Japan to students who have little or no knowledge of this area. Stresses Western impact and Japan's response to it. Particular attention is given to Japan's modernization programs, the rise of Japan as an imperialist power and her recovery from defeat after World War II.

HIST 370 Traditional China

China before the Western impact. Analyzes China's religions, philosophies, government, economics, family and society and attempts to bring into focus those aspects of the Chinese civilization that have a direct bearing on our understanding of the Chinese today.

HIST 371 Modern China

China's response to the impact of the West with particular attention to the difficulties with which China adjusts herself to a modern, fast-changing world and the developments which led her finally to communism.

Latin American History

HIST 208 Non-Western Civilization: Latin America

Examines the problems arising from the physical characteristics of the region, the colonial heritage of political instability and rigid social classes, the unique racial mixture, and the contemporary pressures resulting from poverty and the population explosion; and explores the reasons for the strong spirit of anti-Americanism which exists

HIST 380 Colonial Latin America

A review of the Ibero-Indian-African background of Latin America. Also deals with the discovery and conquest of the area, Spain's and Portugal's imperial policies; political, economic and social developments of the colonial society, and the wars for independence.

HIST 381 Modern Latin America

Such topics as problems of early nationhood, caudillismo versus modern dictatorships and quest for democracy, difficulties in moving from a colonial to a national economy, and the social tension of a society in transition are explored with consideration given to Latin America's role in world affairs and relationship with the United States.

HIST 382 Puerto Rico, Cuba and the Caribbean World

A survey of Caribbean history from Columbus to Castro, stressing the important changes which occurred in the 1950's when the Caribbean became a focal point of the struggle between different world interests and ideologies.

Variable Courses: Thematic, Cross-Cultural History, Methodology

HIST 225 Cultural History of the 1960's

Examines the history of the 1960's—a decade of change, reflection, and dissentfrom the cultural perspectives of literature, music and social and political thought.

HIST 250 American Women's History

The experience of American women from colonial times to the present. Explores conditions that shaped women's destiny, analyzes the differences between the historical experience of women from both different social classes and ethnic groups, and considers the ways American women have perceived their condition and worked to alter it.

HIST 260 Historiography

The development of historical writing, the understanding of history, the historical method, the practice and theory of historiography. Intended for history majors.

HIST 433 Comparative Revolutions

A comparative study of revolution as a historical phenomenon. An analysis of various theoretical models of revoluntionary change provides the conceptual tools with which to compare revolutions in different historical and cultural settings. Major attention is focused on an intensive analysis of selected major revolutions.

HIST 461 Colloquium

Topics vary from year to year. Students read widely on the selected topics and meet to discuss their reading.

HIST 480 Seminar

Topics chosen and announced by the faculty. Readings, reports and papers related to specific topics. 1-3 credits

Note: See also courses listed under Humanities, p. 58.

HIST 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of Philosophy

Professors-M. Hailparn, A. Juffras, W. McKeefery (chairperson)

Associate Professors—M.L. Friquegnon. P. Rothenbera

Assistant Professors—R. Myatt, J. Peterman

For students interested in the entire spectrum of knowledge. Widely accepted and long-held attitudes and beliefs in the arts, physical sciences, social sciences, and mathematics are critically examined.

MAJC	OR REG	UIREMENTS	30 credits
PHIL	110	Introduction to Philosophy	3
PHIL PHIL	130 180	Ethics Logic	3
Pluso	ne of t	he following:	
PHIL PHIL PHIL	•	Metaphysics Theory of Knowledge Philosophy of Art	3 3 3
Plus o	ne of t	he following:	
PHIL PHIL PHIL	326 327 330	Plato Aristotle David Hume and the	3 3
PHIL	404	Skeptic Tradition Seminar: Classics in Philosophy	3 3
Plus t	vo ado	ditional courses in the	history of
philos	ophy f	rom the following:	
PHIL	190	The History of Ancien Philosophy	t 3
PHIL	202	The History of Modern Philosophy from	3
PHIL	331	Descartes to Kant Nineteenth Century Philosophy: Post-Kan German Idealism	3 tian

Plus nine credits of philosophy electives 9

MINOR REQUIREMENTS 15 credits

Students must complete 15 credits of philosophy courses with no more than six credits on the 100-level.

Courses

Unless otherwise noted, all courses are for 3 credits.

PHIL 110 Introduction to Philosophy

Representative problems of philosophy, ranging from methods of inquiry, moral dilemmas, religious knowledge, problems of existence, artistic judgment and criticism to political and social philosophy.

PHIL 120 Philosophy of Religion

An analytic study of religious beliefs. Emphasis on the problems of the meaning and truth of religious utterances; the existence of God; the compatibility of God and evil; the relationship between religion, psychology and morality; and the philosophical adequacy of mysticism, both East and West.

PHIL 130 Ethics

This course is taught in one of two ways: 1) an examination of representative ethical theories ranging from Socrates, Plato, Aristotle, Epicurus, the Stoics, Hume, Kant, Bentham, Mill, Dewey, and more recent philosophers; 2) an attempt to develop moral criteria by examining representative moral problems confronting society. An analysis is made of the nature of moral discourse and the meaning of moral terms.

PHIL 140 Critical Thinking and Scientific Method

Covers methods of inquiry as used in empirical research. Explanation, hypotheticodeductive method, confirmation, and types of inductive thinking form the basis of the course. In addition, special attention is given to relating course material to the thinking of the student.

PHIL 180 Logic

Covers formal techniques in the logic of propositions and predicate logic. Three kinds of deductive derivations—direct derivation, conditional proof, and indirect derivation—are considered as are shorter tests of validity and consistency. Recommended for debaters, lawyers, public speakers and computer science majors.

PHIL 190 The History of Ancient Philosophy

The history of philosophy from the Pre-Socratics through Socrates, Plato, Aristotle, the Stoics, the Epicureans and early Neo-Platonists. Recommended for history majors. Also provides literature majors with the sources of classical intellectual allusions that abound in literature and drama.

PHIL 202 The History of Modern Philosophy from Descartes to Kant

Deals with the seventeenth and eighteenth centuries, principally with the following problems: the assimilation of science as faced by Descartes, Spinoza and Leibniz; the order of nature suggested by Newtonian science and its effect on Locke, Berkeley and Hume; natural theology in the Enlightenment; the natural rights political philosophy of Locke; the British moralists.

PHIL 205 Eastern Religion

A comparative study of the principal past and present Eastern religions and of man's religious feelings and experience.

PHIL 206 Western Religion

A comparative study of the principal religions of the West, past and present; of what is common to many and peculiar to each; and of man's religious feelings and experience.

PHIL 211 Existentialism and Phenomenology

Examines such existential themes as death, freedom, responsibility, subjectivity, anguish, time and the self as they appear in both literary and philosophical works. Phenomenology as one philosophical method which can be applied to such themes is considered. Includes the works of Sartre, Kierkegaard, Camus, Kafka, Heidegger, and others.

PHIL 226 Philosophy of the Social Sciences

Deals with the logic of social inquiry. Asks whether customary scientific methods apply to the social sciences. Examines explanatory proposals; e.g., hermeneutic interpretation (verstehen), functionalism, structuralism, behaviorism, et al.

PHIL 231 Philosophy of the Future

Emphasizes the future rather than the past. Various "futuristic" visions for the next twenty to thirty years and the projection techniques used are examined in the context of how the future will affect people and their environments.

PHIL 309 Studies in the Utopian Theme

A philosophical examination of Utopían thinking about such questions as, "What is the nature of the good life?," "What is the nature of the good man?," "What is the nature of the ideal society?" Throughout, emphasis is on the relevance of past questions and answers to the dilemmas of contemporary society.

Prerequisite: One prior course in philosophy or permission of the instructor

PHIL 310 Political Philosophy

Explores the relation between the state and the individual, asking what obligations and duties each has to the other. Also considers acts of civil disobedience and resistance and inquires into the role of tolerance in contemporary society.

Prerequisite: One prior course in philosophy or permission of the instructor

PHIL 312 Metaphysics

Several traditional and recent views of the problem of existence and associated problems are discussed. Included are the relation between appearance and reality, mind and matter, mind and body, the nature of substance and personal identity.

PHIL 313 Philosophy in the Middle Ages

An introduction to philosophical ideas of the Middle Ages among Christians, Muslims and Jews. Emphasis on metaphysics of Augustine, Avicenna and Maimonides, and the works of Aquinas and Ockham. Prerequisite: One prior course in philosophy or permission of the instructor

PHIL 315 Philosophy of Mind

The philosophical problems associated with the relation of mind and body, mind and matter, willing and acting. Also, a consideration of some representative solutions ranging from monism, dualism, epiphenomenalism, psycho-physical parallelism and behaviorism. Recent research in psychology, neurophysiology and robot and computer automata studies is considered.

Prerequisite: One previous course in philosophy

PHIL 316 Philosophy of History

A philosophical examination of historical language and inquiry, the logic of historical development, problems of historical explanation and generalization and value judgments.

Prerequisite: One prior course in philosophy or permission of the instructor

PHIL 317 Theory of Knowledge

An examination of the philosophical issues surrounding the notions of necessary truth, empirical knowledge, a priori knowledge, analytic statements, and related topics. Views of traditional and contemporary philosophers are discussed.

Prerequisite: One prior course in philosophy or permission of the instructor

PHIL 318 American Philosophy

An introduction to American philosophy through reading and examining selected writings of such classical American philosophers as Pierce, James, Royce, Dewey and Santayana.

Prerequisite: One prior-course in philosophy or permission of the instructor

PHIL 321 Philosophy of Art

An examination of theories of art from Plato to Dewey. The role of inspiration, intelligence, skill, expression, experience and emotion in the arts is discussed.

Prerequisite: One previous course in philosophy

PHIL 323 Introduction to Marxism

A basic, introductory course in Marxism with special attention to dialectical materialism, the theory of class struggle, alienation and revolution. The writings of Marx and Engels are considered in terms of their philosophical antecedents and are subjected to analysis within the content of the development of philosophical attempts to understand the nature of reality. Issues in epistemology and metaphysics are raised.

PHIL 324 Philosophy of Sexual Politics

The application of philosophical techniques of analysis to a study of the nature and position of women in contemporary society. Focus is on critical evaluation of the alternate models for understanding women's oppression. Selected writers include Eva Figes, Betty Freidan, Simone de Beauvoir, Frederick Engels and Shulamith Firestone.

PHIL 325 Philosophy of Science of

Analyzes the logic of scientific inquiry and the logical structure of its intellectual products. Primarily an examination of both logical patterns exhibited in the organization of scientific knowledge and logical methods whose use, despite changes in special techniques and revolution in substantive theory, is the most enduring feature of modern science.

Prerequisite: One previous course in philosophy and logic

PHIL 326 Plato

An historical introduction to the chief Socratic dialogues. An analytical examination of the key arguments in Theaetetus, Parmenides, Sophist, Timaeus, Symposium, Phaedrus, Phaedo and Cratylus and other dialogues.

Prerequisite: One prior course in philosophy or permission of the instructor

PHIL 327 Aristotle

An introduction to the basic philosophical doctrines of Aristotle with emphasis on the following topics: in the Organor categories, scientific methodology, and definition; in the Metaphysics, being, substance, potentiality and actuality, casual explanations; in the Physics, theory and movement, place and time, and the prime mover; in De Anima, the concepts of the soul and the intelligences, theories of perception and memory; in the Ethics the theories of virtue, deliberation and happiness. A study of Aristotle's Poetics is also included. Prerequisite: One prior course in philosophy or permission of the instructor

PHIL 330 David Hume and the Skeptic Tradition

A brief study of the skeptic tradition from the sixteenth century to Hume. An intensive study of Hume's principal works covers his views on "the origin of ideas," meaning, causality, science, induction, the proofs of God's existence, his relation to Locke and other predecessors, and his influence on Kant."

Prerequisite: One prior course in philosophy or permission of the instructor

PHIL 331 Nineteenth-Century Philosophy: Post-Kantian German Idealism

An introduction to post-Kantian German idealism as exhibited by Fichte, Schelling, Hegel, et al., and the transformation of and the reaction against idealism as seen in the writings of Schopenhauer, Marx, Kierkegaard and Nietzsche.

Prerequisite: One prior course in philosophy or permission of the instructor

PHIL 333 Philosophy of Law

Deals with both the development of law and an analysis of its principles and concepts. Examines and discusses the relationship between law and morality and law and justice; the logical principles in legal arguments; and various kinds of legal theories; e.g., natural law, legal positivism and legal realism.

WILLIAM PATERSON COLLEGE

PHIL 334 Business and Ethics

A study of large corporations as quasipolitical and social institutions. Examines capitalism as a revolutionary force of the twentieth century and the consequences for society implied in the social attitudes that prevail and endure in these institutions.

Prerequisite: PHIL 130

PHIL 336 From Religion to Philosophy

Covers the transition from a reliance on prophets, poets, dramatists and the "wise man," to a reliance on the philosopher in matters dealing with human action, inquiry and artistic products.

PHIL 337 Greek Political Philosophy

Covers the development of Greek political ideas from the Homeric age up to and including the historical Polyblus. Focal points are: Sophists, Socrates, Isocrates, Thucydides, Plato and Aristotle. Changes in political ideas are carefully placed in their historical context.

PHIL 399 Selected Topics

A study of special areas of philosophic concern. Topics vary from semester to semester in response to student demand and professional interest and are announced in current master schedules.

PHIL 402 Advanced Logic

A study of the nature of a formal deductive system, including the proofs of completeness, consistency and independence. The equipollence of deductive systems is also examined, and more advanced notions of predicate logic, multiple quantification, higher functional logic and logic of relations are covered.

Prerequisite: One prior course in logic

PHIL 404 Seminar: Classics in Philosophy

A classic work in philosophy is explored indepth from among the following: one of Plato's dialogues, a treatise from Aristotle, Augustine, St. Thomas, or works such as Kant's Critique of Pure Reason, Mill's Utilltarianism, James' Pragmatism, et al.

PHIL 421 Contemporary Analytic Philosophy

A study of the development of an important philosophical movement of the twentieth century, tracing its development from Bertrand Russell through the logical positivists—Ayer and Carnap, G.E. Moore, Gilbert Ryle—to ordinary language analysis, exemplified by Wittgenstein and Austin.

PHIL 499 Independent Study

As approved and to be arranged 1-3 credits

Note: See also courses listed under Humanities, p. 58.

The School of Management

Berch Haroian, Dean Office: White Hall E1

The School of Management offers major programs in accounting, business administration, computer sciences, criminal justice administration, economics and public administration.

For the exceptional student, there is a special interdisciplinary honors program in international management.

Standards

All freshman students intending to pursue a major within the school must follow a "structured curriculum" for the first 30 credits.

ACCT 211	Principles of Accounting I	3
ACCT 212	Principles of Accounting II	3
ECON 201	Macroeconomic	3
	Principles	
ECON 202	Microeconomic	3
	Principles	

The remaining 18 credits are chosen from among general education courses in consultation with the student's academic advisor. All students, at the completion of 30 credits, must have attained a grade point average of 2.5 or better. Students who do not meet this standard may not continue in a major program in the School of Management, will be referred to the Office of Student Services for counseling, and must withdraw from the major in the School of Management. Only those students with valid major School of Management codes may register for 300- and 400-level courses in the school.

Students are reviewed after having completed 60 credits to insure that their cumulative average of 2.5 or better is being maintained. In addition, all students in the school are expected to maintain a **minimum** 2.5 grade point average in their major courses in addition to their overall cumulative grade point average of 2.5 or better

In general, application for admission into a major program in the School of Management will rarely be given consideration when the student has already earned 90 or more credits in other programs.

Transfer students seeking admission to the School of Management must have attained an overall grade point average of 2.5 or better at the institution(s) from which they are transferring and must have satisfied other appropriate curricular requirements.

Department of Accounting and Law

M. Rudnick (chairperson)

Accounting

Associate Professor—R. Davis Assistant Professors—N. Bassano, F. Grippo, G. Kahn, R. Maresco, L. Petruzzello, J. Veltri, A. Weinstein

William Paterson College offers an extensive program in the field of accounting, which prepares students for positions in two general areas, public accounting and private accounting.

Public Accounting

Students who successfully complete the accounting curriculum meet the minimum requirements set forth by the State Board of Accountants, and are allowed to sit for the C.P.A. examination. Special review courses are offered to assist students in meeting standards of the board. After successful completion of the examination, a two-year work requirement is needed to receive a certificate.

Most C.P.A.'s practice as individuals or in major firms. A growing trend in recent years has been the C.P.A.-manager who combines the skills of the accounting professional with managerial qualities needed in business.

State C.P.A. requirements to qualify for examination are as follows:

- 1. Applicant must be 18 years old.
- 2 Applicant must:
 - a. be a resident of the State of New Jersey, or
 - b. be in the employ of a certified public accountant or firm or certified public accountants having an office and performing services in the State of New Jersey, or
 - be engaged in the State of New Jersey for the regular practice of public accounting.
- 3. Education: See below.
- 4. Examinations are given twice a year, in May and November. Students must file a completed application in the Office of the Secretary on or before March 1st for the May examination or September 1st for the November examination. Residency determines examination site northern or southern locations.
- When requested, applicant must appear before the board and/or any character committee appointed by the board.
- 6. It is the responsibility of the applicant to familiarize himself with the Rules of Professional Conduct. It is written in the Accountancy Law that every applicant for the C.P.A. Certificate is bound by these rules.

Accounting Honors Track

In an effort to recognize exceptional students in the accounting curriculum and to prepare students to keep abreast of the current needs of the profession, the School of Management has created an accounting honors track.

The honors track is open to undergraduates who intend to pursue a career and obtain certification in the field of public accounting. Upon meeting specific academic and grade point requirements—sophomore standing, completion of Accounting I and II, and a 3.0 grade point average—students accepted into this program take courses with full-time members of the school's accounting faculty and are required to attend all accounting major courses as a group. Upon successful completion of this major course of study, a student is awarded a bachelor of arts in public accounting.

Private Accounting

For students who are not interested in pursuing a C.P.A. but are interested in responsible financial positions, the program outlined below makes provision for the professional flexibility that both public agencies and private firms require of students entering the field of finance.

MAJC	DR REG	QUIREMENTS 60 cred	its
Core	Requi	rements 18 cred	its
BUS	201	Introduction to Management	3
BUS CS	320 152	Corporate Finance COBOL and Data Processing I	3
ECON ECON LAW	1210	Microeconomic Principles Economic Statistics I Business Law I	3 3
Acco	unting	Courses 33 cred	its
ACCT ACCT ACCT ACCT ACCT ACCT ACCT ACCT	212 311 312 340 341 370 410 411	Principles of Accounting I Principles of Accounting II Intermediate Accounting I Intermediate Accounting II Cost Accounting II Cost Accounting II Auditing Taxation I Taxation II Advanced Accounting II Advanced Accounting II	3 3 3 3 3 3 3 3 3

ADDITIONAL REQUIRED CREDITS 9 credits

LAW 252 Business Law II

Plus one course in finance and one course in business, computer science, economics or law.

Courses

Unless otherwise noted, all courses are for 3 credits

ACCT 211 Principles of Accounting 1

Introductory course in the fundamental principles of accounting, the theory of debit and credit, account classification, preparation of working papers, adjusting, closing, reversing entries and preparation of basic financial statements.

ACCT 212 Principles of Accounting II

Introduces accounting for partnerships and corporations. Also, basic concepts of cost accounting, taxation and the use of accounting as a decision-making tool for management.

Prerequisite: ACCT 211

ACCT 311 Intermediate Accounting I

Review of basic financial statements and in-depth study of accounting principles advanced by responsible professional organizations in the classification, presentation and disclosure of assets required for external users of financial information. Prerequisite: ACCT 212

ACCT 312 Intermediate Accounting II

In-depth study of accounting principles advanced by responsible professional organizations in the classification, presentation and disclosure of liabilities and stockholders' equity required for external users of financial information.

Prerequisite: ACCT 311

ACCT 340 Cost Accounting I

Cost accounting and its contribution to management, the cost accounting cycle, and cost data accumulation, job order costing, process cost accounting procedures, materials, labor and overhead costing and control, costing of by-products, co-products and joint products.

Prerequisite: ACCT 312

ACCT 341 Cost Accounting II

Planning of profits, costs and sales, budgeting and forecasting, standard cost systems, techniques of accumulating, reporting and evaluating costs and variances, break even and cost volume profit analysis. Prerequisite: ACCT 340

ACCT 370 Auditing

Reviews the procedures and practices used in auditing the financial transactions and statements of an organization. Internal control, test of transactions and audit standards employed are discussed and demonstrated by actually doing an audit of a practice company.

Prerequisite: ACCT 312

ACCT 410 Taxation I (same as BUS 410)

A study of the U.S. Internal Revenue Code with emphasis on income taxatjon of individuals. Provides practice in the preparation of tax returns and solution of case problems. Concentrates on the problems of U.S. individual income tax. Also examines taxation of corporations and partnerships. Prerequisite: ACCT 212

ACCT 411 Taxation II (same as BUS 411)

A study of the U.S. Internal Revenue Code with emphasis on the taxation of corporations, partnerships, estates and trusts. Federal payroll, gift and estate and New Jersey taxes are also covered. Prerequisite: ACCT 410

ACCT 420 Advanced Accounting I

An in-depth study of principles used in accounting for parent and subsidiary companies, partnerships and other specialized areas of accounting.

Prerequisite: ACCT 312

ACCT 430 Advanced Accounting II

Intensive review and analysis of basic and advanced concepts, skills and principles. Imperative for students who intend to apply for a certifying examination.

Prerequisite: ACCT 370

ACCT 499 Independent Study

As approved and to be arranged. 1-3 credits

Law

Associate Professors-R. Bing, G. Sheehan Assistant Professors—H. Parker, J. Wilkerson At present, the law faculty offers 14 law courses which are open to all students in the College. Designed to acquaint students with the goals, functions and procedures of the United States legal system, this curriculum provides a background for students planning to enter law school as well as those who are interested in lawrelated fields, such as para-legal work, criminal investigations, public administration, and others. All members of the law faculty are lawyers and are available as pre-law advisors to any student who wishes to apply to law school.

Courses

Unless otherwise noted, all courses are for 3 credits.

LAW 120 Introduction to Law and Legal Systems

A liberal studies survey course for students of all curricula. Designed to acquaint them with the operation of the American legal system. Among topics covered are the law of torts, criminal law and procedures, civil procedures, administrative law and the court systems, both state and federal. Open to all students:

LAW 206 Substantive Criminal Law

Designed to acquaint students with penal codes and concepts such as criminal liability, anticipatory offenses, offenses against the person and property, offenses involving fraud and offenses against public administration. Scrutinizes defenses such as self-defense, insanity, duress, infancy and entrapment.

Open to all students. Prior completion of LAW 120 preferred.

LAW 210 Law of Torts

Designed to acquaint students with the principles of private wrongs for which the courts afford injured parties a remedy in the form of damages. Detailed study of concepts such as assault and battery, libel, false arrest, trespass, malicious prosecution, negligence, malpractice, strict liability and vicarious liability. Also examines defenses such as self-defense, mistake, consent, privilege and necessity.

Open to all students. Prior completion of LAW 120 preferred.

LAW 231 Estate Practice and Decedent Estates

Designed to acquaint students with laws of wills, probate, intestacy and ancillary matters connected with the administration of estates.

Prerequisite: LAW 120

LAW 251 Business Law I—Contracts

Designed to acquaint students with the laws of contracts. Examines concepts such as offer, acceptance, consideration, competent parties, legal subject matter, assignments and third party beneficiaries. Scrutinizes defenses such as statute of frauds, infancy, insanity and parole evidence.

Core course for all School of Management majors. Open to all students. Prior completion of LAW 120 preferred.

LAW 252 Business Law II—Sales and Negotiable Instruments

Acquaints students with Article II, III, IV and IX U.C.C. Critically examines concepts such as warranty, risky loss, bona fide purchases for value, products liability, negotiability, checks, notes, holder in due course and secure transactions.

Prerequisite: LAW 251

LAW 253 Business Law III—Agency Partnerships-Corporations

Designed to acquaint students with the laws of agency partnerships and corporations. Topics include creation, termination and rights and duties of principal and agent; creation, termination, authority, duties, rights of partners; creation, termination, corporate powers, shareholders, management of corporations.

Prerequisite: LAW 251

LAW 306 White Collar Crimes and Consumer Fraud

Designed to acquaint students with the problems involved in prosecuting white collar crimes, such as larceny, embezzlement, fraud, gambling, duress, prostitution, forgery and perjury, which are studied in detail. Critically examines consumer frauds, such as overreading, false advertising and deceit.

Prerequisite: LAW 206 or 251.

LAW 308 Procedural Criminal Law

Acquaints students with the machinery and procedures utilized in enforcing penal codes. Critical examination of concepts such as arrest, search and seizure, wire-tapping, due process, right to counsel, bail, warrants, fair trial and grand jury. U.S. Supreme Court rulings that control state criminal procedures are used as guidelines. Prerequisite: Law 120, 206 or 251.

LAW 401 Collective Bargaining

Designed to study the impact of collective bargaining contracts in both the private and public sectors. Detailed study of arbitration and administration of collective bargaining agreements.

Prerequisite: LAW 120 or 251. Juniors and seniors preferred.

LAW 402 Evidence and Civil Procedure

Designed to acquaint students with the rules of evidence in adversary hearings, with the preparation of proceedings and other documents in preparing a civil case for litigation. Critically examines other devices for obtaining information, such as discovery, interrogatories and E.B.T.'s.

Prerequisite: IAW 120 or 251 luniors and

Prerequisite: LAW 120 or 251. Juniors and seniors preferred.

LAW 407 Administrative Law and Regulations

Examines the role of bureaucracies on the state and federal levels. Emphasizes the powers and procedures common to all administrative agencies. Concepts such as standing exhaustion finality, rule making power, adjadecatory power, investigatory power and substantial evidence are critically examined.

Prerequisites: LAW 120, 206, 251. Juniors and seniors preferred.

LAW 421 Real Estate I

A detailed study of the principles and practices of real estate, including ownership, contracts, deeds, conveyances, mortgages and titles to realty. Methods of financing the real estate business and the role of the real estate broker are emphasized. The role of real estate in the economy is also examined.

Prerequisites: LAW 251, 252

LAW 422 Real Estate II

A study of the law of real estate. Topics covered in detail include real estate brokerage, the real estate broker and the law, rights of lien, taxes, leases and property insurance and management, land subdividing and developing, city planning and zoning, housing legislation and home ownership. Condominiums, cooperatives and other types of real estate are distinguished.

Prerequisite: LAW 421

Department of Business and Economics

C. Liddicoat (chairperson)

Business Administration

Professors— D. Erickson, K. Kim, M. Laurence, P. Navak

Assistant Professors—J. Carroll, V. Siyakumar

Instructors—R. Parthasarthy, M. Sahebi, P. Swanson, N. Ugoji

Students who wish to pursue a broadbased business major should consider the business administration program. The program is grounded in liberal studies and provides strong exposure to a variety of disciplines which allows the student to have maximum flexibility with which to meet the challenges of the current and future job market.

60 credits MAJOR REQUIREMENTS Core Requirements 30 credits ACCT 211 Principles of Accounting I ACCT 212 Principles of Accounting II BUS 201 Introduction to 3 Management Microeconomic Principles 3 **ECON 202 ECON 210** Economic Statistics I 3 CS 140 Computer Science I 3 CS 152 COBOL and Data 3 Processing 1 3 LAW 251 Business Law i Marketing 3 BUS 310 Corporate Finance BUS . 320 3 BUS Business Strategy and 460 Policy

Business Administration 30 credits Courses

ECON 211 Economic Statistics II 3 Plus 27 additional credits chosen from among business courses with catalog numbers above BUS 300.

Courses

Unless otherwise noted, all courses are for 3 credits. .

BUS 201 Introduction to Management

Introduces basic principles, policies, problems and successful methods of business organization and management. Emphasizes management's ability to analyze, plan, coordinate and control the varied activities of production, personnel, finance and marketing. Also examines social responsibility and environmental factors affecting business policy and operation.

Prerequisite: ECON 201

BUS 3.01 Personnel Management

Focuses on how to select and train personnel and how to develop and maintain a positive human-relations environment which contributes to the efficiency of the business operation.

Prerequisites: BUS 201, 310

BUS 306 Organizational Behavior

Stresses the importance of managerial adaptability when dealing with the situational realities of contemporary organizations. Present needs, flexibility and future growth potential are emphasized. Students learn by discussing actual situations and developing solutions based on their knowledge of the theoretical foundations of organizational philosophy, concepts and processes.

Prerequisite: BUS 201

BUS 308 Organizational Development and

Conceptual models are discussed, case studies of successful and organizational development efforts are analyzed, and current topics in the area are critically reviewed. Appropriate roles for organizational change agents are stressed. Specifically, techniques for introducing and successfully managing change in complex organizations are emphasized. Prerequisites: BUS 201, 306

BUS 309 International Management

A framework for the analysis of international management problems. Defines the nature of the international, multinational and transnational company. Also examines the evolution of these types of enterprises, develops a model of a multinational firm in a dynamic global setting, and provides a bridge among the disciplines of economics, sociology, political science and international management. Prerequisites: BUS 201, 310, ECON 201, 202

BUS 310 Marketing

Major emphasis on techniques for solving business problems, the development of marketing policies, and the sale of consumer and industrial products. Various marketing decisions are examined with respect to product-planning, channel of distribution, promotion activity, selling and sales management, pricing and international marketing.

Prerequisites: BUS 201, ECON 201, 202

BUS 311 Money and Banking (also listed as **ECON 310)**

An analysis of the nature of money, credit and the banking system of the United

Prerequisites: ECON 201, 202

BUS 314 Advertising

The dynamic role played by advertising in the American economy. Examines the function of the corporate advertising department in manufacturing and retailing firms as well as the advertising agency

Prerequisites: ACCT 211, 212, BUS 310

BUS 315 Human Resources Planning and Development

Includes human resource planning process techniques, operations, goals, objectives, targets, long-range planning, micro- and macro-environmental and manpower analysis, planning methods, strategies, career planning, development concepts and methods, and other aspects of human resources planning and development.

Prerequisites: Bus 201, 306

BUS 320 Corporation Finance

A study of the financial principles and practices involved in the reorganization, administration and dissolution of private business corporations.

Prerequisites: ACCT 211, 212, ECON 201, 202

BUS 340 Labor and Management in the American Economy (also listed as ECON 340)

An examination of how labor and management are affected by various theories and institutional approaches and policies, such as public legislation on labor and management relations, collective baraaining, labor unions, inflation and unemployment.

Prerequisites: ECON 201, 202

BUS 342 Retail Marketing: Merchandise Management

The dynamic role played by retailing in the American economy. Analyzes the problems of marketing consumer goods and services and operating various types of stores. Strategies of forecasting, planning, organizing and controlling retail operations are also considered.

Prerequisites: ACCT 211, 212, BUS 310

BUS 400 International Financial Management

Financial management of a multinational enterprise. Topics include foreign exchange risk, political risk, long-run investment and financing decisions, working capital management, and valuation of operations and taxation.

BUS 403 Capital Budgeting

The conditions under which production takes place and the part managers and workers play in effecting production. Prerequisites: BUS 310, 320

BUS 410 Taxation I (also listed as ACCT 410) A study of the U.S. Internal Revenue Code with emphasis on income taxation of individuals. Provides practice in the preparation of tax returns and the solution of case problems. Concentrates on the problems of U.S. individual income tax, but taxation of corporations and partnerships is also

Prerequisites: ACCT 211, 212

BUS 411 Taxation II (also listed as ACCT 411)

A study of the U.S. Internal Revenue Code with emphasis on the taxation of corporations, partnerships, estates and trusts. Federal payroll, gift and estate and New Jersey taxes are also covered.

Prerequisite: BUS 410

BUS 420 Managerial Economics (also listed as ECON 410)

The application of economic analysis to the solution of individual business problems. Among the primary areas covered are demand forecasting, cost and profit analysis and capital budgeting.

Prerequisites: ECON 201, 202, 210, 211

BUS 430 Product Planning and Management

Emphasizes the importance of product planning and development of new products for the growth and survival of business organizations. Particular emphasis is on product development, the management of new product strategies, and the planning and management of the entire product mix in the multiproduct organization. Prerequisites: BUS 310, 320

BUS 431 Production and Operations Man-

Techniques and methods employed by managers to plan and control manufacturing and other operating systems are emphasized. Application of quantitative methods and various analytical techniques are stressed for operating system design, planning, control, problem solutions, productivity, inventory, scheduling, quality and capacity management, control system development, new technology evaluation and transportation problems. Prerequisites: ECON 210, 211, BUS 201

Bus 435 Principles of Investment

A disciplined application of financial analysis to the valuation and selection for investment of corporate securities. While the viewpoint is primarily that of the individual investor, criteria are also applicable within the business firm.

Prerequisites: BUS 310, 320, ECON 211

Bus 450 Small Business Management

A senior-level seminar course in the practical aspects of designing and operating a small business firm. Urban and inner-city minority group and poverty problems are highlighted where appropriate.

BUS 451 Management Planning and Control

The design and testing of management systems are explored. Analysis of analytical and simulation methods used in planning and controlling different management systems configurations are examined and the behavioral and systems approaches are integrated. Concepts of planning and control are introduced along with situational activities, case studies, perceptual exercises, role playing, competency planning and control activities.

Prerequisites: BUS 201, 306

BUS 460 Business Strategy and Policy

A case study approach to business decision-making that integrates functional and organizational disciplines. Examines, in depth, a series of complex industrial situations to determine in each instance the strategy and policies a firm should follow for its long-run survival.

Prerequisites: BUS 201, 306, 320

BUS 465 Marketing Research

Marketing research as a tool of marketing management, emphasizing the role of research in planning, organizing and controlling marketing activities. Various analytical tools for marketing research are examined and their application to practical marketing problems is illustrated. Prerequisites: ACCT 212, BUS 310, 320, ECON

BUS 470 An Introduction to Operations Research

The scientific methodology of operations research and logic is applied to the decision-making process. Introduces the concepts of linear and mathematical programming and inventory and statistical decision theories. Prerequisite: ECON 211

BUS 475 Transportation and Business **Logistics Management**

Covers the theory, techniques and management of physical supply and distribution. Emphasis is placed on organization, route structure, equipment management. scheduling, control operations, inventory management, and other macro- and micrologistics. Students must deal with government regulations, industry trends and relations, technological development and corporate strategy.

Prerequisites: ECON 210, 211, BUS 310

BUS 480 Seminar in Management

Explores in depth selected theoretical aspects of management theories and/or the major areas within management. Each student is expected to take a major area and prepare a paper that may include decision-making processes, strategy formulation; the perceptions of the environmental factors, managerial values, organizational crises and other current management topics. Students have the opportunity to write a paper based on their studies of real-world situations. Prerequisites: BUS 201, 310, 460 -

Economics

Professors—G. Dorai, A. Eapen, B. Haroian, C. Leung Associate Professor - C. Liddicoat Assistant Professor-K. Kim Instructor-G. Nicklas

The economics program provides students with a broad conceptual framework and the analytical tools of economic decisionmaking. Flexibility is built into the curriculum so that students may seek employment upon completion of their fouryear program or, if they prefer, continue on to graduate school for further study. The program provides an excellent background for such areas as law, management and business administration.

MAJOR-REQUIREMENTS 60 credits ·Core Requirements . 24 credits ACCT 211 Principles of Accounting I ACCT 212 Principles of Accounting II BUS 201 Introduction to Management ECON 202 Microeconomic Principles ECON 210 Economic Statistics I CS 140 Computer Science I. 3 LAW 251 3 Business Law I Corporate Finance

Economics	Courses. 24	creaits
ECON211	Economic Statisticș II	<u>`</u> 3
ECON 301	Macroeconomic Theory	/ 3
ECON 302	Microeconomic Theory	3

3

Plus 15 additional credits chosen from among economics courses with catalog numbers above ECON 302.

Additional Courses 12 credits

Any courses in accounting, business, computer science, economics, law or mathematics.

Courses

BUS

320

Unless otherwise noted, all courses are for 3 credits.

ECON 201 Macroeconomic Principles

Concentrates on the basic economic principles relevant to the resource utilization problems of the economy as a whole. Theories and policies which relate to the economy's total level of output, total income, total level of employment, total expenditures and the general level of prices are treated at an introductory level.

ECON 202 Microeconomic Principles

Concentrates on the basic economic principles relevant to resource allocation. Demand and supply analysis is used to explain at an introductory level two major topics: 1) price determination in competitive as well as imperfectly competitive markets such as monopoly, oligopoly and monopolistic competition, and 2) distribution of income among resources.

ECON 210 Economic Statistics I

Descriptive statistics (collection and presentation of data, frequency distributions, measures of central tendency, dispersion and skewness); index numbers' simple correlation and regression; curve fitting; introduction to statistical inference, samplina and probability.

Prerequisite: MATH 115 or 150

ECON 211 Economic Statistics II

Sampling distribution of the sample statistics, probability limits and tests of significance; statistical inference and confidence limits; operating characteristic curves; simple experimental design; applied probability for decision making. Prerequisite: ECON 210.

ECON 230 Economics of the Environment

Examines problems of environmental quality as an economic problem. The role that economic analysis plays in providing both public and private decision-makers with alternative solutions to environmental problems is stressed.

ECON 301 Macroeconomic Theory

A systematic treatment of the factors determining the level of output, income and employment of the economy as a whole. Prerequisites: ECON 201 and 202

ECON 302 Microeconomic Theory

An analytic treatment of theories and techniques of price determination. Theories of income distribution and general equilibrium are also considered. Prerequisites: ECON 201 and 202

ECON 303 International Finance

A study of international financial transactions. Topics include balance of payments, foreign investment and exchange markets.

ECON 310 Money and Banking (also listed as **BUS 311)**

An analysis of the nature of money, credit and the banking system of the United States.

Prerequisites: ECON 201 and 202

ECON 321 Public Finance

A study of theoretical and empirical aspects of government expenditure and revenue activities. Special emphasis is placed on the impact of government policies on the economy and the relationship of government policies to issues of current interest in American society.

Prerequisites: ECON 201 and 202

ECON 328 Economic History of the United States (also listed as HIST 328)

Emphasizes economic elements in the historical growth of the United States from colonial to contemporary times. An analysis is made of the changing role of government, technological innovation, industrial pioneering and competition in the development of the American economy.

ECON 340 Labor and Management in the American Economy (also listed as BUS 340)

An examination of how labor and management are affected by various theories and institutional approaches and policies, such as public legislation on labor and management relations, collective bargaining, labor unions, inflation and unemployment.

Prerequisites: ECON 201 and 202

ECON 360 Theory of Economic Growth and Development

A study of the sources of economic growth and development and the private and public policies which affect this historical trend. Both underdeveloped and developed countries are considered. Prerequisites: ECON 201 and 202

ECON 370 International Economics

An introduction to the principles and characteristics of international transactions. Prerequisites: ECON 201 and 202

ECON 390 Comparative Economic Systems

A study of the actual operations of various economic systems as they seek the optimum use of the human and natural resources available to them. The ideological, technological and organizational features of each system are stressed.

Prerequisites: ECON 201 and 202

ECON 410 Managerial Economics

The application of economic analysis to the solution of individual business problems. Among the primary areas covered are demand forecasting, cost and profit analysis and capital budgeting. Prerequisites: ECON 201, 202, 210, 211

ECON 430 Econometrics

The ordinary least squares criterion is scrutinized. The problems of estimating demand, supply, consumption, production and cost functions are treated in depth. Prerequisites: ECON 201, 202, 210, 211

ECON 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of Administrative and Computer Sciences

R. Grier (chairperson)

Computer Science

Professor—L. Cheo Associate Professors—E. Hu, L. Presby, F. Servedio Assistant Professors—D. Bellin, M. Haghighi,

I. Rebecchi Instructor—L. Levv

The computer sciences program consists of a five-track minor and a three-track bachelor's degree-granting program. The minor, open to all students regardless of discipline, requires students to successfully complete a minimum of 18 credits in the computer sciences area. The degree-grant-

complete a minimum of 18 credits in the computer sciences area. The degree-granting program consists of three tracks:

1) physical and natural sciences;

2) business, economics and accounting;

3) social and behavioral sciences. Students are required to complete 22 to 25 credits in computer sciences as the core of the program, as well as additional courses in computer sciences and other areas to satisfy particular degree requirements. These programs cover computer hardware systems, as well as computer applications to business, economics, accounting, natural.

ral, physical, social and behavioral sci-

ences, education and mathematics.

Computer facilities consist of an in-house Burroughs 1955, a remote job entry (RJE) system, twenty interactive time-sharing (T/S) terminals and thirteen key-punch machines. Apple microprocessors are available for classwork. In addition, for students interested in learning various types of deterministic and probabilistic simulation and problem-solving techniques through an analog device, an EAI Miniac Analog computer system is available. All computing equipment is located in the Coach House Computer Center.

PROGRAM REQUIREMENTS

Track I: Math and Natural Science

MAJO	R REG	QUIREMENTS 58 cred	its
Core	Requ	irements 9 cred	its
ACCT BUS	211 201	Principles of Accounting I Introduction to Management	3
ECON	1202	Microeconomic Principles	3
Comp	outer	Science Courses 27 cred	its
CS	140	Computer Science I	3
CS	240	Computer Science II	3
CS	280	Computer and	3
		Assembler Language	
CS	341	Computer Design	3

Computer Science Electives 9 credits
Any three courses in computer science with
catalog numbers of 300 or higher.

Math and Natural Science Requirement 13 credit

MATH 161	Calculus II	4
MATH 202	Linear Algebra	3
Plus two co	urses in math and natural	sci-
ence by ac	dvisement.	

58 credits

Track II: Business

MAJOR REQUIREMENTS

Core	Requ	irements 27 cred	tits
ACC		Principles of Accounting I	3
ACC		Principles of Accounting II	3
BUS	201	Introduction to	3
ECON	1202	Management	2
ECON		Microeconomic Principles Economic Statistics I	3 3 3
CS	152	COBOL and Data	3
00	102	Processing I	Ü
LAW	251	Business Law I	3
BUS	310	Marketing	3
BUS	320	Corporate Finance	3
Com	puter	Science Courses 27 cred	tits
Com CS	puter 140	Science Courses 27 cred Computer Science	3
CS CS	•		3
CS	140	Computer Science I Computer Science II Computer and	3
CS CS CS	140 240 280	Computer Science I Computer Science II Computer and Assembler Language	3 3 3
CS CS CS	140 240 280 341	Computer Science I Computer Science II Computer and Assembler Language Computer Design	3 3 3
CS CS CS CS	140 240 280 341 342	Computer Science I Computer Science II Computer and Assembler Language Computer Design Data Structure	3 3 3 3
	140 240 280 341 342 343	Computer Science I Computer Science II Computer and Assembler Language Computer Design Data Structure Systems Programming	3 3 3 3
	140 240 280 341 342 343 362	Computer Science I Computer Science II Computer and Assembler Language Computer Design Data Structure Systems Programming Computer Simulation	3 3 3 3 3 3
	140 240 280 341 342 343	Computer Science I Computer Science II Computer and Assembler Language Computer Design Data Structure Systems Programming Computer Simulation Information, Organization	3 3 3 3
	140 240 280 341 342 343 362	Computer Science I Computer Science II Computer and Assembler Language Computer Design Data Structure Systems Programming Computer Simulation	3 3 3 3 3 3

Computer Science Electives 6 credits
Six credits of computer science courses with catalog numbers of 300 or higher.

Track III: Social Science

MAJOR REQUIREMENTS 60 credits

1717 130		CONCENTENTIO	-	0.00	
Core	Requ	irements	9	cred	its
ACCT BUS	211 201	' Principles of Accou Introduction to Management	ıntir	ng I	3
ECON	202	Microeconomic Prir	ncip	oles	3
Comp	outer	Science Courses	27	cred	its
CS	140	Computer Science	1		3
CS	240	Computer Science	11		3
CS	270	Computer Statistic			3
CS	280	Techniques Computer and			3

CS 280 Computer and 3 Assembler Language CS 341 Computer Design 3 CS 342 Data Structure 3 CS 343 Systems Programming 3 CS 362 Computer Simulation I 3 CS 480 Computer Science 3 Seminar

Computer Science Electives 9 credits

Nine credits of computer science courses must be taken with a catalog number of 300 or higher.

Seminar

Data Structure

Systems Programming

Computer Simulation I

Computer Calculus

Computer Science

3 3 3

3

342

343

360

362

480

Social Science Requirement 15 credits

PSY	202	Experimental Psychology I	3
SOC	254	Research Methods	3
		in Sociology	
POL	. 261	Research Methods	3
		in Political Science	

Plus two additional social science courses by advisement.

Courses

Unless otherwise noted, all courses are for 3 credits.

CS 130 Introduction to Computers and BASIC

Introduces the basic principles and applications of computing systems, minicomputers in particular. Techniques of computer programming are introduced through BASIC. Students who intend to major or minor in computer science may be waived from this course with permission of a faculty advisor.

C\$ 140 Computer Science I

Designed to teach students how and why a computer is used. The student learns how to program in the FORTRAN language. Simple applications in the most frequently used mathematical models are included. Prerequisites: CS 130 or permission of the instructor, MATH 1.15

CS 152 COBOL and Data Processing I -

Introduction to the COBOL language with applications to commercial problems. Topics in business information processing, such as payroll and inventory management, are examined.

Prerequisite: CS 130 or permission of the instructor

CS 201 Computer Literacy

Designed to present an overview of computers, computer science and use of computers. The course is not a programming course. It covers the nature of machines, how they work and a survey of applications in the sciences, business, humanities and the arts.

Prerequisite: None

CS 240 Computer Science II

An introductory course on the solution of computational problems. Emphasizes the computer solution of several numerical and non-numerical problems using an algebraic language such as PL/I. Appropriate flow charting and algorithms for the computational solution to each problem are designed and discussed. A survey of computer languages and systems is also included.

Prerequisite: CS 140 .

CS 270 Computer Statistical Techniques I

An introduction to existing major statistical packages such as DATATEXT, BMD, SPSS, SAS, etc., using BATCH card data manipulation process. Some basic JCL concepts used for this purpose are discussed. Prerequisite: Math 130 or equivalent and CS 140

C\$ 280 Computer and Assembler Language

An introduction to the study of the basic structure and language of machines. Prerequisites: CS 240, MATH 160

C\$ 330 Linear Programming and Operation Research

Introduces the concept of operations research and mathematical techniques applied to decision-making problems when the inputs are known.

Prerequisite: Math 120 or 202 and CS 240

CS 341 Computer Design

An introduction to the internal structure of digital computers.
Prerequisite: CS 280

C\$ 342 Programming Language and Data Structures

An introduction to elements of programming languages and basic concepts of data representation.

Prerequisite: CS 280

CS 343 Systems Programming

The problems arising in systems programming: Emphasis on a multi-programming system.

Prerequisites: CS 341 and 342

CS 344 Switching Theory

The theoretical principles and mathematical techniques concerned with the logic design of digital systems.

Prerequisite: CS 240

CS 352 Cobol II

Data processing systems and the advanced features of COBOL.

Prerequisite: CS 152

CS 360 Computer Calculus

Emphasizes building algorithms for solution of numerical problems, the sensitivity of these algorithms to numerical error, and the efficiency of these algorithms.

Prerequisites: CS 240 and MATH 202

CS 361 Combinatorial Computing

The problem of how to carry out computations with discrete mathematical structures. Introduces students to the fundamental concepts and techniques used in solving many combinatorial problems by utilizing computers.

Prerequisites: CS 240 and MATH 202

C\$ 362 Elements of Computer Simulation

Probabilistic simulation models: generation of random numbers, Monte Carlo methods and elementary queueing theory. Deterministic simulation models: application to physics, economics and biological processes. Other non-numerical problems included are searching and sorting techniques and information retrieval techniques. Prerequisites: CS 240, some statistics

C\$ 370 Computer Statistical Techniques II

A follow-up course to C\$ 270. Topics include data manipulation on statistical programs using on-line, tape and disk devices. Prerequisite: C\$ 270

CS 399 Special Topics in Computer Sciences

A course designed to implement new topics on an experimental basis.

Prerequisite: Instructor's permission

CS 420 Compiler Construction

The major techniques used in compiler writing. Topics include formal language theory, lexical and syntactic analysis, code generation and optimization and error diagnostics and recovery.

Prerequisite: CS 342

CS 440 Information Organization and Retrieval

Flow of data, its representation, transmission and storage.

Prerequisite: CS 342

CS 445 Automation

Emphasizes the central concept of effective procedure of the computer-like machines, such as finite-state machine, pushdown automation, register machine and Turing machine.

Prerequisite: CS 344

CS 460 Analogue Hybrid Computing

Techniques for solving mathematical modeling problems, concepts of data sampling and computer function generation, and digital simulation of analogue computers. Prerequisites: CS 360 and 362

CS 462 System Simulation

Introduction to the principles of simulation and the application of several simulation languages to system studies. Discussion of the techniques applicable to both continuous and discrete systems and an explanation of the probability theory and statistical techniques involved in the construction of valid models and in analyzing results.

Prerequisite: CS 362

C\$ 465 Computer Simulation II

The formulation and analysis of mathematical models representing probabilistic systems, probability theory, queueing theory, inventory maintenance and reliability problems. Use of characteristics of these systems in decision-making is covered. Prerequisite: CS 362

CS 480 Computer Science Seminar

Current topics in computer sciences are discussed.

Prerequisite: Instructor's permission

Criminal Justice Administration

Associate Professor—L. Gaydosh

The criminal justice administration program is in the process of review and modification. Students interested in pursuing this area should first speak with the departmental chairperson.

The criminal justice administration program offers students a variety of courses, with eaual emphasis on behavioral science and scientific approaches in its analysis of organizational behavior and the cause, prevention and control of unlawful behavior. The four-year curriculum leading to a bachelor of science degree in criminal justice administration is specifically designed for students either currently working in the criminal justice system or pre-service students contemplating careers within that system.

Many courses offered by the Department of Criminal Justice Administration are doubletracked so that those students working in jobs that require changing work schedules can be accommodated in either the day or evening session of a given course. Many general education courses—history, business, political science, philosophy, English and African and Afro-American studiesare double-tracked as well.

The Department of Criminal Justice Administration offers courses in corrections, organization and administration, criminology, community relations, investigation, juvenile delinquency, white collar crime, arson investigation, supervision, management, civil law for criminal justice practitioners, patrol administration and a seminar in criminal justice problems. The program also offers an independent study course.

MAJOR	REQUIREMENTS	60 credits

Core	Requ	irements 15 cred	lits
ACC [*]	T 211	Principles of Accounting I	3
ACC		Principles of Accounting II	3
BUS	201	Introduction to	3
FC01	1000	Management	_
ECO1		Microeconomic Principles	3
LAVV	231	Business Law I	3
Crim	inal Ju	ustice Courses 30 cred	lits
CJA	160	Introduction to Criminal	3
		Justice Systems	
CJA	207	Introduction to	3
		Criminology	
CJA	302	Criminal Justice Planning	3
CJA	480	Criminal Justice Seminar	3
PPM	211	Introduction to Public	3
		Management	
PPM	301	Theory and Methods of	3
		Public Management	
		Resources	
PPM	415	Public Budgeting and	3
	000	Finance	
LAW	308	Procedural Criminal Law	3

Plus c	one of	the following:	
CJA	161	Law Enforcement Organization and Administration	3
CJA CJA	162 163	Contemporary Corrections Introduction to Private Security	3
Plus c	one of	the following:	
CJA CJA CJA	320 403 406	Security Management Community Supervision Law Enforcement	3 3 3

Criminal Justice Electives 15 credits Fifteen credits of criminal justice courses by

Management

advisement.

Courses

Unless otherwise noted, all courses are for 3 credits.

CJA 160 Introduction to Criminal Justice Systems

Philosophical and historical background of agencies and processes, law enforcement administration and technical problems, crime and the criminal as social and public safety problems.

CJA 161 Law Enforcement Organization and Administration

Introduction to the guidelines provided by organizational theory as they relate to police organizational structure. Discussion of administrative problems, lines of responsibility, coordination among various branches, recruitment career advancement and the selection of police leader-

CJA 162 Contemporary Corrections

Examines the primary objectives and oraanizational structure of correction systems. A brief history and overview of the field of corrections as it relates to the reduction and control of crime are given. Stresses current trends focusing on community responsibility. Examines new communitybased programs and facilities.

CJA 203 Community Relations

Examines the attitudes and actions of criminal justice personnel and the public which contribute to positive and negative relationships between the two; public apathy and law enforcement; changing nature of social controls; cases and situations in criminal justice community relations. Explores ways to stimulate meaningful human relationships and a sense of dialogue. The class setting serves as a laboratory in which a sense of community among students is fostered.

CJA 207 Introduction to Criminology

A study of the role and responsibilities of the seven segments within the adminstration of the justice system: law enforcement, judiciary, corrections, probation, parole, prosecution and defense.

CJA 208 Criminal Investigation

Introduction to investigation procedures, including theory of an investigation, conduct at crime scenes, collection and preservation of physical evidence, methods used in the police science laboratory, fingerprints, ballistics, documents, serology, photography, weapons, related forensic sciences and elements that constitute crime.

CJA 301 Supervision in Criminal Justice

Considers the supervisory problems within police organizations and the attainment of effective performance through the skillful blend of sound principles of human relations and supervisory techniques. Such topics as leadership, motivation, discipline, instructional training and other devices in achieving departmental aims and objectives are included.

CJA 302 Criminal Justice Planning

The nature, variation and causes of crime and delinquency. Modern methods in the treatment of criminals as well as preventive and correctional programs are examined. Probation and parole problems are examined. The criminal courts are considered. A survey of theories of crime and penology is made.

CJA 303 Juvenile Delinquency

By examining the most current literature in the field, insight is gained into the nature, variation and causes of juvenile delinquency. The course is also concerned with new directions in the juvenile justice system, including an evolving juvenile court and juvenile code.

CJA 304 Field Operations—Law Enforcement Agencies

Patrol as the basic function of police operations. Purpose, methods, types and means of police patrol. Analysis of tangibles and intangibles of patrol operation. Existing practices in various police departments of the United States, Europe and the United Kingdom are compared and evaluated critically.

CJA 309 Social Problems in Criminal Justice

A systematic, in-depth study of social problems as they relate to the criminal justice system. Research and theory in each area. Application of theory and practice to everyday experience of in-service personnel.

CJA 310 Comparative Criminal Justice Systems

A comparative analysis of criminal justice systems in the United States and selected foreign countries. Emphasis on the administration and organizational aspects, functions and processes at work in selected foreign criminal justice systems. The relationships of the police to the government and the people they serve are analyzed.

CJA 403 Community Supervision and Treatment of the Offender

Focuses on an analysis of theories and practices of parole and probation. Is also concerned with the current trend toward diversion of offenders from the criminal justice system and special community programs.

CJA 405 Arson Investigation

A comprehensive analysis of the problems, techniques and procedures of arson investigation. Practical case illustrations are

CJA 406 Law Enforcement Management

Analysis of management, the policies and procedures of personnel effectiveness and their specific application to law enforcement, planning, program and performance budgeting, records management, data processing, communications, leadership, decision-making and operations research.

CJA 480 Seminar in Criminal Justice

An analysis of the major problems in criminal justice and the relation of the criminal justice department to other law enforcement and civic agencies.

Open only to seniors majoring in criminal justice.

CJA 499 Independent Study

As approved and to be arranged. 1-3 credits.

Public Administration

Professor—J.M. Waiguchu Associate Professor—R. Grier Instructor-R. Zinke

Public demand for effective and responsive community and public institutions continues to increase. Public agencies and non-profit organizations at all levels—federal, state and local—have begun to look for only the most qualified people to fill positions. Men and women who exhibit clarity of thought, personal integrity and commitment, and a strong desire for distinguished public service are sought. The School of Management's program in non-profit organization and public administration is designed to provide such people with the necessary intellectual and academic training needed to compete for public service positions.

MAJOR REQUIREMENTS 60 credits **Core Requirements** 15 credits ACCT 211 Principles of Accounting I 3 ACCT 212 Principles of Accounting II 3 BUS 201 Introduction to Management **ECON 202** Microeconomic Principles 3

Business Law I Public Administration Courses 24 credits

CJA	160	Introduction to Criminal	3
CJA	207	Justice Systems Introduction to	3
		Criminology .	
CJA	302	Criminal Justice Planning	3
PPM	211	Introduction to Public	3
		Management	
PPM	230	Introduction to Public	3
		Information Systems	
PPM	265	Introduction to Public	3
		Policy Studies	
PPM	411	Public Personnel Systems	3
PPM	415	Public Budgeting	3
		and Finance	

Public Administration Electives

21 credits

3

Twenty-one credits by advisement must be taken in public administration and criminal justice courses. At least nine of the credits must be in public administration courses.

Courses

LAW 251

Unless otherwise noted, all courses are for 3

PPM 211 Introduction to Public Man-

Introduces students of public affairs to the methods and practices of managing public agencies. The course surveys organizational theories and practices including leadership techniques, coordination, planning, supervision, decision making, organizing, controlling and such other internal and external factors which influence public officials, bureaucratic behavior and governmental processes.

PPM 225 Management of State and Local **Public Agencies**

A study of the management structure, procedures and policies of state and local government and community agencies. Special emphasis on agency and program development and administration including urban issues, service delivery systems and capacity, inter-governmental and agency relations.

Prerequisite: PPM 211. May be taken concurrently.

PPM 230 Introduction to Public Information Systems

The basic concepts and elements of information systems management as applied to the public sector. Topics include: methods of information systems implementation, information processing problems and models, systems analysis. Principles, applications and innovations of systems analysis in the public sector are stressed.

PPM 265 Introduction to Public Policy Studies

A general introduction to public policymaking as it relates to public administration/management. The course covers the various models of public policymaking including the Elite/Mass model, the Group model, the Systems model, the Institutionalist/Neoinstitutionalist model, the Incrementalist model, the Rationalist model, and the Public Choice model. The role of policy analysis in administrative institutions and processes is discussed.

PPM 270 Public Policy Implementation

The development and implementation of public policies. Topics include: social and urban impact analysis, intergovernmental program management and the role of evaluation research in program implementation. Emphasis on the problematic nature of translating public laws into viable public programs.

Prerequisite: PPM 265

PPM 311 Theory and Methods of Public **Management Research**

Examines and contrasts various assumptions, principles and methods employed in and applied to the study and conduct of management of public agencies. Focus is on the theoretical and methodological bases of conceptualizing, initiating, planning, implementing and directing public actions and programs within an organizational and behavioral context. The course emphasizes the ways in which theories of knowledge about public management are translated into practice. Prerequisite: PPM 211

PPM 365 Program Analysis

Program analysis involves the determination of costs and benefits of alternative program solutions to public problems. This course deals with the fundamental analytical methods and processes of program evaluation, and the use of such tools in the policy making process. The role of program analysis in administrative agencies is also discussed.

Prerequisites: PPM 265, 315

PPM 370 Ethical Issues of Policy Makina

An examination of the ethical provisions, principles and obligations under which public officials conduct themselves and their duties. The nature of normative discourse and reasoning is also discussed. The emphasis is on the moral and ethical criteria used in judging and determining public policies and programs as well as exercising administrative discretion. Prerequisite: PPM 265

PPM 415 Public Budgeting and Finance

Describes and analyzes all major aspects of public budgeting and finance at all levels of government, including budget preparation, budget documentation, accounting, current and capital budgeting, debt management, public purchasing and control mechanisms of pre- and post-audits.

Prerequisite: PPM 211. Two courses in economics and one course in accounting recommended.

PPM 439 Internship: Management of State, Local and Community Agencies

Designed to provide practical work experience in a student's area of specialization in public administration.

PPM 465 Applied Public Policy Research Students integrate the skills and tools of policy analysis, derived from previous course work. Real-world examples are stressed. Prerequisites: PPM 265, 301, 315

PPM 479 Internship: Public Policy StudiesStudents work in their areas of specialization under the direction of experienced public officials.

The Honors Program in International Management

The honors program in international management offers students the opportunity to combine pre-professional education in business administration with the internationalist perspective of the liberal arts. The courses' major goals are: 1) to prepare students for careers and for further study in international economic and business affairs, with specific attention to East Asian, European and Latin American areas; 2) to associate the concept of honors with both an intercultural perspective and second language proficiency; 3) to promote the concept that the well-prepared manager is a Renaissance person whose education encompasses a broad range of academic studies.

Students achieve an understanding of both economics and business administration in an international context, and a comprehensive knowledge of a given world area—its language, history, politics and ethnology. While curriculum models vary according to the honors candidate's major (economics, accounting, business administration, political science, history, geography, sociology or foreign languages), the choice of area studies determines the combination of language and area study courses.

One of the most important requirements of the program is proficiency in a second language: Chinese or Japanese for East Asian studies; Spanish or Partuguese for Latin American studies, French or German for European studies. Students interested in the program are advised to enroll in appropriate foreign language courses as early as possible in their college careers. Special sections of intermediate-level language courses emphasize readings in economics and politics and the vocabulary of business and diplomacy, Likewise, a senior seminar in economic development makes use of extensive readings in the language of the appropriate area study.

COMMON CORE 36 credits REQUIREMENTS

Economics

	0		
ECO	V 201	Macroeconomic	. 3
		Principles `	
ECO1	V 202	Microeconomic	3
	•	Principles	
ECO		Econômic Statistics I	3
ECO1	V211	Economic Statistics II	3
ECO		International Economics	3
ECO	N 390	Comparative Economic	3
		Systems	
Busin	ess	• •	
BUS	309	International Manage-	3
DO3	309	ment	J
BUS	320	Corporation Finance	3
DOO	020	Corporation Finance	J
Acco	unting	J	
ACC [*]	Г 211	Principles of Accounting I	3
ACC.	Г 212	Principles of Accounting II	3

Political Science

HPIM	213	Sophomore Honors	1
HPIM	480	Colloquium Senior Honors Seminar in Economic Growth, De- velopment and Problems (different sections for East Asia, Europe and Latin	2
POL	240	America) International Relations	3

AREA STUDY REQUIREMENTS

18-30 credits

Foreign Language

Student must demonstrate intermediatelevel fluency in the appropriate language, usually by successfully completing 2-4 semesters of college-level courses.

History

Choose at least one course from each of the following groups:

FAR EAST HIST 265 HIST 270 HIST 271	Modern Japan Traditional China Modern China	3 3 3
LATIN AMER HIST 380 HIST 381 HIST 382	ICA Colonial Latin America Modern Latin America Puerto Rico, Cuba and the Caribbean World	3 3 3
EUROPE		
HIST 301	Social History of Modern Europe	3
HIST 333	Modern Britain	3
HIST 338	Europe Since 1914	3

Choose at least one course from each of the following areas:

Sociology/Anthropology

SOC	342	Ethnology in East Asia:	3
SOC	359	China and Japan Cultural Changes in Latin America	3

Political Science

POL	332	European Political Systems	3
POL POL	337 480	Politics of Latin America Seminar in Political Science	3 3

Geography

331	Asia's Geography and	3
	Problems	
333	Europe's Geography and	3
	Problems	
335	Latin America's Geogra-	3
	phy and Problems	
	333	Problems 333 Europe's Geography and Problems 335 Latin America's Geogra-

The School of Science

Alvin F. Shinn, Dean Office: Science Hall 317

The School of Science offers degree programs in biology, chemistry, environmental studies (in conjunction with various other majors), and mathematics for students wishing to pursue careers in these disciplines, including teaching.

The school offers diverse liberal studies courses for students who are majoring in other schools of the College. The woods, pond, waterfall and undeveloped parts of the campus are used for studies in ecology, biology, geology, and for surveying practice in environmental mapping.

Seminars by prominent scientists, given throughout the year, keep students and faculty abreast of recent research and developments in the sciences. Each department has a number of faculty active in research who regularly provide opportunities for students to engage in research under their supervision. Modern scientific equipment and supplies support both researchers and students.

Pre-Professional Programs

The Pre-Professional Committee (including pre-medical, pre-dental, pre-veterinary, and related medical fields) includes three members of the biology department, one member of the chemistry department, and the advisor of the Pre-Professional Society.

Students interested in a career in medicine, osteopathy or poalatry should meet with the pre-medical advisor during the first semester of the freshman year. The advisor suggests appropriate courses, explains application procedures and gives students evaluation forms for professors of biology, chemistry and physics. Students should check with the pre-professional advisor at least once each year and confer about grade point average, courses to take and evaluations which have come back from professors.

All students planning to attend professional school must have an interview with the Pre-Professional Committee and provide the committee with a brief resume of curricular and extra-curricular activities. It is suggested that these interviews take place in May or June of the junior year. Students who take professional exams in September or October may wish to have their interview in September. The earlier the interviews and application are completed, the better the chances of admission. The committee will not interview or write letters after October 15.

The Pre-Professional Committee sends out letters to schools designated by the student at the end of the junior year or at the beginning of the senior year. The letter reflects the student's college grade point average, performance in science courses and an assessment of the ability to compete in the

chosen field. The student is rated in comparison to other students in biology and chemistry over the past five years. This indicates to a professional school the likelihood of a student's success in a program. All students should realize that pre-professional programs are very competitive and students should have alternative plans if they are not accepted.

Pre-Medical Preparation Prospective medical students should acquaint themselves with entrance requirements for medical schools by consulting the handbook published annually by the Association of American Medical Colleges, Admission Requirements of American Medical Colleges. They should read each year's issue to make sure that the requirements of the schools to which they plan to apply have not changed and are advised to purchase the publication by mail from the association at 1 DuPont Circle, N.W., Washington, D.C. 2003.6, at a cost of \$5.

All medical school applicants are required to take the Medical College Admissions Test, administered twice a year, fall and spring, by the American College Testing Service. Students may obtain information by writing to MCATS, Box 414, Iowa City, Iowa 52240. Students may obtain MCAT applications from the pre-professional advisor.

Students should take at least 8 credits in each of the following course areas in order to meet the minimum requirements for the majority of medical schools: general biology, general chemistry, calculus, organic chemistry, physics. Strongly recommended: courses in English literature, foreign languages and advanced science.

Students are advised to elect as many of the required courses in science as possible in their. freshman and sophomore years. Pre-medical students must have their course of study approved by the pre-professional advisor of the Department of Biology.

Pre-Dental Preparation Admission requirements to dental schools are set by the American Dental Association. Minimum requirements are general biology, 8 credits; general chemistry, 8 credits; college mathematics, 8 credits; comparative anatomy, 4 credits; organic chemistry, 8 credits; physics, 8 credits; English, 6 credits. Some dental schools require, and others recommend, additional science courses. Three or four years of college are required for admission to dental school.

Pre-dental students must have their courses approved by the pre-professional advisor of the Department of Biology and should take the Dental College Admissions Test during the junior or senior year.

Veterinary Medicine Preparation Prospective veterinary students should acquaint themselves with the entrance requirements for veterinary schools by consulting the handbook published annually by the American Veterinary Medicine Association or the catalogs of specific veterinary colleges. Since requirements do change, it is important to check requirements annually, All students must take the Veterinary College Admissions Test.

The State of New Jersey has agreements with the following veterinarian schools to accept students who are New Jersey residents: Cornell University, University of Kansas, Ohio University and the University of Pennsylvania.

Minimum requirements are biology or zoology, 8 credits; chemistry, including organic and biochemistry, 16 credits; math, including some analytic geometry and calculus, 6 credits; physics, 8 credits; microbiology, 3 credits; genetics, 3 credits; English, 6 credits. There is a requirement for farm work or work with a veterinarian.

Required courses should be taken as early as possible, and the course of study should be approved by the pre-professional advisor of the Department of Biology as early as possible.

Honors Program in Biopsychology

The honors program in biopsychology draws on discoveries in such fields as behavioral genetics, neuroanatomy, brain chemistry, neurophysiology, psychopharmacology and many others to unravel the biology of the mind and behavior. The National Science Foundation awarded two grants to support the development of this program. As with all honors programs at WPC, biopsychology is not a major but a distinctive cluster of courses which adds breadth to, and reinforces, students' chosen majors.

Open to majors in psychology, biology, chemistry, sociology and nursing, this program is highly recommended for students planning graduate study—including premedical/dental/veterinary/graduate nursing students—and, in general, those students interested in clinical or research careers. As an honors program, biopsychology is designed for highly motivated individuals seeking opportunities both to learn and to demonstrate excellence.

Interested students begin in the freshman year with a set of foundation courses carefully selected to provide a firm basis for the study of more advanced disciplines. Students begin taking the core biopsychology courses in the junior year. The curriculum is enriched with seminars, discussion groups, research opportunities and speaker series. Students and faculty participate together in a closely knit academic community.

BIO 163-164 General Biology and 8 or 8 8 8 8 8 8 8 8 8	FOUN	FOUNDATION COURSES 41-46 credits				
BIO 212-213 General Anatomy and Physiology I and II Chemistry CHEM 160-161 General Chemistry I and II and CHEM 308-309 Organic Chemistry I 8 and II or CHEM 164-165 College Chemistry and Organic Biochemistry Computer Science CS 130 Introduction to Computers/BASIC or CS 140 Computer Science I 3 Physics Choose one of the following two-semester courses by advisement: PHYS 255-256 College Physics I and II 8 or PHYS 260-261 General Physics I and II 8 Psychology PSY 110 General Psychology 3 Statistics PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.	BIO		General Biology I and II	8		
CHEM 160-161 General Chemistry I and II and CHEM 308-309 Organic Chemistry I and II or CHEM 164-165 College Chemistry and Organic Biochemistry Computer Science CS 130 Introduction to Computers/BASIC or CS 140 Computer Science I 3 Physics Choose one of the following two-semester courses by advisement: PHYS 255-256 College Physics I and II 8 or PHYS 260-261 General Physics I and II 8 Psychology PSY 110 General Psychology 3 Statistics PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science 3 Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.		212-213		8		
CHEM 308-309 Organic Chemistry I and II or CHEM 164-165 College Chemistry and Organic Biochemistry Computer Science CS 130 Introduction to Computers/BASIC or CS 140 Computer Science I 3 Physics Choose one of the following two-semester courses by advisement: PHYS 255-256 College Physics I and II 8 or PHYS 260-261 General Physics I and II 8 Psychology PSY 110 General Psychology 3 Statistics PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science 3 Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.	Chem CHEM	nistry 1 160-161		8		
CHEM 164-165 College Chemistry and Organic Biochemistry Computer Science CS 130 Introduction to Computers/BASIC or CS 140 Computer Science I 3 Physics Choose one of the following two-semester courses by advisement: PHYS 255-256 College Physics I and II 8 or PHYS 260-261 General Physics I and II 8 Psychology PSY 110 General Psychology 3 Statistics PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.	CHEM	1308-309		8		
CS 130 Introduction to Computers/BASIC or CS 140 Computer Science I 3 Physics Choose one of the following two-semester courses by advisement: PHYS 255-256 College Physics I and II 8 or PHYS 260-261 General Physics I and II 8 Psychology PSY 110 General Psychology 3 Statistics PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science 3 Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.		1164-165		8		
Physics Choose one of the following two-semester courses by advisement: PHYS 255-256 College Physics I and II 8 or PHYS 260-261 General Physics I and II 8 Psychology PSY 110 General Psychology 3 Statistics PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science 3 Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.		130 In	troduction to Com-	3		
Choose one of the following two-semester courses by advisement: PHYS 255-256 College Physics I and II 8 or PHYS 260-261 General Physics I and II 8 Psychology PSY 110 General Psychology 3 Statistics PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science 3 Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.		140 C	omputer Science I	3		
PHYS 260-261 General Physics I and II 8 Psychology PSY 110 General Psychology 3 Statistics PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.	Choo cours PHYS	se one of es by adv	visement:			
PSY 110 General Psychology 3 Statistics PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science 3 Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Blopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.		260-261	General Physics I and II	8		
PSY 202-203 Experimental Psychology I and II or MATH 230 Statistics for Science 3 Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.			General Psychology	3		
MATH 230 Statistics for Science Majors CORE COURSES 14 credits BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective courses are chosen by advisement.	PSY			8		
BIPY 474 Neuroscience 4 BIPY 475 Behavior Genetics 4 Topical Elective in 3 Blopsychology (one or more) PSY 353 Physiological Psychology Chology 3 MAJOR ELECTIVES 10-12 credits Elective-courses are chosen by advisement.	-	230		3		
BIPY 475 Behavior Genetics 4 Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology chology 3 MAJOR ELECTIVES 10-12 credits Elective courses are chosen by advisement.	CORE	COURSES	S 14 cred	lits		
Topical Elective in 3 Biopsychology (one or more) PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective courses are chosen by advisement.				4		
PSY 353 Physiological Psychology 3 MAJOR ELECTIVES 10-12 credits Elective courses are chosen by advisement.	BIPY	475 •	Tòpical Elective in Biopsychology			
Elective courses are chosen by advisement.	PSY	353	Physiological Psy-	3		
Elective courses are chosen by advisement.	MAJC	R ELECTI	VES 10-12 cre	dits		
·				ent.		
PHIL 110 Introduction to 3 Philosophy	Reco	mmende	d liberal studies courses: Introduction to	·		
or		4.40	to the second second	^		
PHIL 140 Introduction to Inquiry 3 SOC 130 Introduction to An- 3			• •			

^{*}Choose from sociobiology, biofeedback, psychopharmacology, biorhythms in physiology and behavior, and special current topics as announced.

thropology

Courses

Unless otherwise noted, all courses are for 3

BIPY 474 Neuroscience

A study of the brain; specifically the integrated roles of the anatomy, chemistry, histology and electrical activity of the central nervous system. The laboratory component focuses on anatomy and techniques for the study of brain functioning. Prerequisites: BIO 163-164 or 212-213 or PSY 353 or permission of the instructor. 4 credits/lecture and laboratory

BIPY 475 Behavior Genetics

An introduction to the concept of geneenvironment interaction as a determiner of both animal and human behavior. Exposure to various methods of experimental and correlational types of investigation. Prerequisites: BIO 163-164 or 212-213 or permission of the instructor.

4 credits/lecture and laboratory

BIPY 476 Developmental Biopsychology

Designed to introduce students to the scope and methods of a psychobiological approach to development. Stresses the phylogenetic and ontogenetic processes influencing individuals, groups, species and phyla, with special emphasis on human groups.

Prerequisites: PSY 353 or BIO 163-164 or BIO 212-213 or permission of the instructor.

BIPY 479 Biorhythms in Physiology and

Focuses on the role of biological rhythms in the adaptive functioning of organisms. Examines yearly, monthly, tidal, daily and sleep/dream cycles; the nature and control of internal clock mechanisms; and the implications of biorhythms for illness and psychopathology.

Prerequisites: BIO 163-164 or BIO 212-213 or BIO 214.

BIPY 499 Current Topics in Biopsychology

Analyzes current approaches and research findings in areas of emerging interests. Prerequisite: Permission of the Instructor. 4 credits

PSY 353 Physiological Psychology Explores the interrelationships between the physiology of the nervous system and psychological functions such as perception, consciousness, motivation, emotion, re-ward, memory and learning. Prerequisites: PSY 110 and BIO 214 or equivalent

PSY 415 Psychopharmacology

Focuses on the major classes of drugs which alter brain and psychological functioning. Examines in depth and compares. the effects of these drugs and the mechanisms by which they act.

Prerequisites: BIO 163-164 or 212-213 or PSY 353.

Department of Biology

Professors-R. Callahan, R. Capella, M. Hahn, C.Y. Hu, D. Levine, J. Rosengren, A. Shinn, J. Voos (chairperson), D. Weisbrot, J. Werth

Associate Professors—N. Grant, J. Green, S. Hanks, A. Isaacson, O. Newton, M. Sebetich, E. Wallace

Assistant Professors—R. Benno, D. Desroches, E. Enslee

The Department of Biology offers a major and a minor in biology and provides a wide scope of biology electives and service courses for students from other disciplines. The major leads to the bachelor of science degree in biology. To meet the needs of modern biology, the department has established a curriculum that provides broad, basic training in the fundamentals of biology as well as a concentration in one of three levels of biological organization.

Interested students may inquire about the honors program in biopsychology offered jointly by the Schools of Science and Social Science.

Certification is available for students interested in teaching science on the secondary level. Interested students should follow the certification requirements outlined below.

MAJO	OR REG	QUIREMENTS	32-37	credits
BIO	163 -	General Biology	<i>/</i> l	4
BIO	164	General Biology	/ II	4
BIO	480	Biology Semina	r	٠ 1
or				٠
BIO	- 499	Independent St	tudy:	1
		Research		
Plus o	one co	urse from each o	of the fo	ollowing
four 1	racks:			
Cell	and M	olecular Biology	,	
BIO	205	Cell Biology		4

four tracks:					
Cell	and M	lolecular Biology			
BIO	205	Cell Biology	4		
BIO	320	General Bacteriology	4		
BIO	421	Developmental Biology	4		
CHEV		Biochemistry I	. 4		
BIPY	475	Neuroscience	4		
Orga	nisma	I—Plant			
BIO	261	General Botany	4		
BIÓ	303	Plant Anatomy	4		
BIO	304	Plant Physiology	4		
BIO	352	Economic Botany	3		
		ıļ—Animal			
BIO	219	Lower Invertebrate	, 4		
		Zoology	_		
BIO	220	Higher Invertebrate	4		
DI O	204	Zoology			
BIO	301	Comparative Animal	4		
BIO	350	Physiology Animal Behavior	3		
BIO	405	Comparative Vertebrate	, 3		
טוט	400	Anatomy	Δ		

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•	u		ш	ш	ю	ш	Ю		COUV

306	General Genetics	4
402	Limnology	4
403 -	General Ecology	4
444:	Evolution	3
475	Behavior Genetics	4
	402 403 444	 306 General Genetics 402 Limnology 403 General Ecology 444: Evolution 475 Behavior Genetics

Plus three additional courses chosen from any track or combination of tracks, by advisement

NOTE: In addition to courses listed above, other biology courses may be substituted in the tracks with the permission of the department chairperson.

DIRECTED E	ELECTIVES	30-32
CHEM 160	General Chemistry 1	4
CHEM 161	General Chemistry II	4
CHEM 308	Organic Chemistry I	4
CHEM 309	Organic Chemistry II	4
Plus one o	of the following two-se	emester

PHYS 255-256 College Physics I and II 38 PHYS 260-261, General Physics I and II 8 Plus 6-8 credits in mathematics by advisement.

MINOR REQUIREMENTS BIO 163

18-20 credits General Biology I

BIO 164 General Biology II Plus three additional biology courses, at least one of which must include a laboratory, by advisement.

NOTE: Students who wish to minor in biology are strongly urged to include in their background a basic course in statistics and one year of general chemistry.

CERTIFICATION REQUIREMENTS 44 credits

Students interested in obtaining teacher certification in comprehensive science must complete the following secondary education (K-12) requirements

educe	JIIOH (K-12) requirements:	
PSY HSC ELED	110 120 310.	General Psychology Current Health Problems Educational Psychology:	3 3 3
		Adaptations and In- terventions in the Classroom	,
SED	340	Exploring the Teaching Field (A pre-student teaching field require- ment)	1
SED	302	Discovering Your Teaching Self (K-12)	3
RLA	329	Foundations of Reading	3
RLA	330	Reading Strategies for the Content Areas	3
SED	301	Curriculum and its Implementation	3
SED	331	Implementing Your Teaching Major (K-12)	3
SED	451	Education Lab: Crafts	4
	*.	and Strategies in Earth Science (for biology and chemistry majors only)	
EDUC	403	Culminating Field Experience	8
SED	404	Instructional Seminar for	1

Student Teaching

Plus one course from the human relations area:

SED '	381 · 391	Educational Sociology Challenge, Change and Commitment in Educa-	3
٠,	*	tion	
SED	432	Human Adaptations and	3
		Alternatives in the School	
URED	482	The Inner City Child and	3
		His Environment	

Plus one course from the professional prep-

aration area:				
LMS	323	Modern Educational Me-	3	
	٠, ٠	dia		
SED	329	The Competencies of	3	
	•	Open Education		
SED	342	Ecology for Educators	3	
SED	380	Insights and Outlooks in	3	
		Education		
SED	428	Simulated Laboratory Ex-	3	
		perience in Secondary		
		Schools		
SFD	430	Teaching Literature to	3	
		Young Adults: Grades	Ŭ	
		5-12		
SED	480	Field Research in Teacher	3	
OLD	700	Education	Ü	

NOTE: PSY 110 and HSC 120 may be taken in partial fulfillment of General Education requirements.

Courses

4

Unless otherwise noted, all courses are for 3

BIO 112-113 General Anatomy and Physiology I and II

A study of the structural and functional relationships of the human body. First semester: Detailed study of the individual organism, cell functions, histology, integumentary, skeletal, muscular, respiratory, and circulatory systems. First-semester laboratory: dissection of the cat.

Second semester: nervous, endocrine, reproductive, digestive, and urinary systems; metabolism, acid-base balance, and water and electrolyte balance.

Open to all; required of nursing majors. Not recommended for pre-med, pre-dental, or biology majors

4 credits each Lecture and laboratory

BIO 114 Applied Anatomy and Physiology

A study of human anatomy and physiology with emphasis on developing an understanding of the interrelationships of the body systems in maintaining homeostasis in both health and disease. Emphasis on nervous and endocrine control mechanisms and the muscular and respiratory systems.

Required of psychology, speech pathology and special education majors; open to others. Not recommended for pre-med, pre-dental, or biology majors.

4 credits

Lecture and laboratory

BIO 118 Basic Anatomy and Physiology

A study of the anatomy and physiology of the human organism showing relationships between structure and function, the integration of the various systems, and maintenance of homeostasis.

Open to all; required of physical education majors.

4 credits

Lecture and laboratory

BIO 120 Human Biology

Accent on man's structure, function, and behavior; genetic makeup and hereditary potential; evolutionary history. Laboratory includes the dissection of the fetal pig as an example of mammalian anatomy, as well as varied exercises in human physiology, genetics and evolution. 4 credits

Lecture and laboratory

BIO 163-164 General Biology I and II

For students intending to major in biology, BIO 163-164 provides a background in biological principles. Similarities and differences between living organisms, both plant and animal, are discussed.

Biology I: Subcellular and cellular structure and function, cellular respiration, photosynthesis, and protein synthesis.

Biology II. The underlying principles of whole organism structure and function; principles of evolution and ecology.

Prerequisite: BIO 163 is a pre- or co-requisite for BIO 164

4 credits each

Lecture and laboratory

BIO 170 Basic Microbiology

Structure, function, nutrition, etc. of the various groups of microorganisms. Relationship to environment and other organisms and their medical importance are considered, particularly infectious disease and immuni-

Required for nursing majors; open to others; not open to students who have taken BIO 320

4 credits

Lecture and laboratory

BIO 205 Cell Biology

A study of the physiological and biochemical processes that regulate and maintain cell function. Cellular and subcellular structures are discussed, especially as applicable to cell function.

Prerequisites: BIO 163-164 and 1 year of chemistry

4 credits

Lecture and laboratory

BIO 219 Lower Invertebrates

The study of all invertebrate groups except arthropods. Morphology, culturing, life cycles, ecology, economic importance. Each student does a detailed study of one minor group. One or two Saturday field trips.

Prerequisites: BIO 163-164 4 credits Lecture and laboratory

BIO 220 Higher Invertebrates

The study of arthropods in the field and laboratory. Morphology, culturing, life cycles, economic importance and means of control. One Saturday field trip.

Prerequisites: BIO 163-164

4 credits

Lecture and field laboratory

BIO 230 Field Biology

An introduction to plants and animals of New Jersey. Intended to develop ability to recognize biotic groups and increase understanding of the necessity of harmonious relationships among man, plants, and animals.

Not open to majors; recommended for elementary education majors.

4 credits

Lecture and field laboratory

BIO 261 General Botany

An introduction to the biology of the plant kingdom; structural, functional, economical, ecological, and evolutionary aspects of plants.

Prerequisites: BIO 163-164

4 credits

Lecture and laboratory

BIO 301 Comparative Animal Physiology

A comparative approach to the basic physiological processes of animals. Emphasis on the functional modifications animals develop in order to cope with their environment.

Prerequisite: BIO 305

4 credits

BIO 302 Human Genetics

Basic tenets of genetics; includes the organization, function, and regulation of hereditary material with emphasis on human and medical application. Required of all nursing majors; not open to biology majors. Prerequisite: 6 credits of biology; elementary statistics strongly advised

Lecture only—For nursing and allied health majors

BIO 303 Plant Anatomy

A comparative study of the relationship of phylogeny, ontogeny and ecology to the anatomical and morphological variations among vascular plants.

Prerequisite: BIO 261 or permission of the instructor

4 credits

Lecture and laboratory

BIO 304 Plant Physiology

Fundamental principles of plant physiology with emphasis on growth and development of vascular plants, including experimental embryogenesis, seed germination, growth regulators, plant water relations, juvenility, flowering, dormancy, and environmental physiology.

Prerequisite: BIO 261

4 credits

Lecture and laboratory

BIO 306 General Genetics

A study of the organization, function, regulation and transfer of hereditary material in viruses, bacteria, and eukaryotes, including man

Prerequisites: BIO 163-164

4 credits

Lecture and laboratory

BIO 307 Biotechniques

Specific laboratory skills useful in biological research, industry and teaching.

Prerequisites: BIO 163-164, 1 year of chemistry

4 credits

Lecture and laboratory

BIO 312 Advanced Anatomy and Physiology

An introduction to advanced studies in human physiology. Stress on cardiology, circulation, acid-base balance, water balance and disorders of the nervous system. Prerequisites: BIO 212-213 or permission of the instructor. For nursing majors.

4 credits

Lecture and laboratory

BIO 320 General Bacteriology

This course is concerned with the structure and function of microorganisms with emphasis on bacteria and viruses. The cultivation of microorganisms, microbial physiology, microbial genetics, microbial ecology, immunology and virology are discussed.

Prerequisites: BIO 163-164, 1 year of chemistry

4 credits

Lecture and iaboratory

BIO 350 Animal Behavior

A survey of animal behavior, including physiological aspects and ecological and adaptive implications.

Prerequisites: BIO 163-164 or permission of the instructor Lecture only

BIO 352 Economic Botany

The relationship between crops and human populations from both historical and biological perspectives. Essential features of plant structure and development as well as geographical and economical aspects are considered.

Prerequisite: BIO 261 or permission of the instructor Lecture only

BIO 402 Limnology

A critical examination of the ecology of fresh water biota with special attention to the physical features of the environment. Surveys are made of streams, ponds, and lakes in the environs. Three all-day field trips included.

Prerequisite: BIO 403 or permission of the instructor

4 credits

Lecture and field laboratory

BIO 403 General Ecology

Basic structural and functional aspects of our ecosystem, including detailed study at the community, population and organismal levels.

Prerequisite: BIO 261 or permission of the instructor

4 credits

Lecture and laboratory

BIO 405 Comparative Vertebrate Anatomy

The phylogenic history of each chordate system, including integument, skeleton, muscles, digestive tract, circulatory, excretory, respiratory, nervous, and reproductive systems. Laboratory includes dissection of representative chordates (lamprey, shark, necturus, cat).

Prerequisites: BIO 163-164

4 credits

Lecture and laboratory

BIO 417 Histology

An introduction to the microscopic anatomy, organization and function of normal mammalian tissues. Direct observation of tissues is included in the laboratory component of the course.

Prerequisites: BIO 112-113 or 163-164 4 credits

Lecture and laboratory

BIO 421 Developmental Biology

A study of vertebrate embryology; includes a brief comparison with the development of the starfish.

4 credits
Lecture and laboratory

BIO 444 Evolution

The history of evolutionary theory, heredity, populations, classification, speciation, adaptation, evidence for organic evolution, vertebrate and human evolution, and the problem of human population. Prerequisite: two years of biology Lecture only

BIO 480 Biology Seminar

Restricted to biology majors. Features indepth study of a selected topic. Each student selects one aspect of the topic, does library research on related literature, and prepares a written report of the findings which are delivered orally to the group as a basis for discussion.

1 credit

BIO 484 Scanning Electron Microscopy

Theory and functioning of the SEM. Each student is required to carry out a project. Prerequisites: BIO 307, junior standing, and written permission of the instructor. 4 credits

Lecture and laboratory

BIO 485 Transmission Electron Microscopy

The principles and practice of transmission electron microscopy, including theory, electron optics, specimen preparation, operation of electron microscope, photography, related instruments and techniques. Prerequisites: Junior standing and written permission of the instructor 4 credits

Lecture and laboratory

BIO 497 Readings in Biology

Student studies a particular field of biology under the personal direction of a faculty member. See also courses listed under biopsychology.

1-3 credits

BIO 498 Field Experience in Biology

A supervised educational experience outside of the regular departmental program. Pass/fail course.

1-3 credits

BIO 499 Independent Study

Individual research projects under the direction of a faculty member. May be substituted for BIO 480. 1-3 credits

Department of Chemistry, Physics, and **Environmental Science**

Chemistry

Professors-S.C. Hyman, C.W. Lee (chairperson), A. Merijanian, H. Sakal, A. Speert Associate Professors—G. Gerardi, R. McCallum, L.J. Rivela, G. Sharma Assistant Professor—K.S. Wong

B.S. in Chemistry

The chemistry program is designed to provide students with the scientific knowledge and skills necessary to pursue a broad range of professional careers. The program leads to a B.S. and is certified by the American Chemical Society as meeting all the professional standards required for baccalaureate education in chemistry. A student is required to take major courses in the principal branches of chemistry: analytical, biochemistry, inorganic, organic and physical in addition to directed electives in mathematics, physics, computer science, biology and English. With a bachelor's degree in chemistry, a student is prepared to continue his education by enrolling in graduate programs in chemistry or other sciences, professional school programs (medicine, dentistry, osteopathy, podiatry, etc.), engineering, computer science, business administration and law. Entry-level positions in government, teaching and industry, which involve aspects of research, manufacturing, sales and management, are also immediate career options.

B.S. in Chemistry (American Chemical Society Certified)

MAJOR REQUIREMENTS (Lecture and Lab) 54 credits

General Chemistry I	4
General Chemistry II	4
Analytical Chemistry	5
Organic Chemistry I	4
Organic Chemistry II	5
Physical Chemistry I	4
Physical Chemistry II	5
Inorganic Chemistry	4
Biochemistry I	4
Analytical	4
Instrumentation	
Organic Spectroscopy	4
Advanced Chemistry	6
Electives (select two	
courses)	
Seminar in Chemistry*	1
	General Chemistry II Analytical Chemistry Organic Chemistry I Organic Chemistry II Physical Chemistry II Inorganic Chemistry II Inorganic Chemistry Biochemistry I Analytical Instrumentation Organic Spectroscopy Advanced Chemistry Electives (select two courses)

DIREC	TED E	LECTIVES	38	credits
BIO	163	General Biology I		. 4
BIO	164	General Biology II		4
CS	140	Computer Science		3
ENG	300	Technical Writing		3
GER	110	Basic German I		4
GER`	111	Basic German II	1	. 4
MATH	160	Calculus I		4
MATH	161	Calculus II		4
PHYS	260	General Physics I		4
PHYS	261	General Physics II		4
ADVAI	NCED	CHEMISTRY ELECTIVE	S	

		4-6	credits
CHE	M 312 is	s a prerequisite for each	of the
follo	wing. Tv	vo courses are required.	
CHE	M 321	Advanced Inorganic	3
		Chemistry	
CHE	M 403	Physical Chemistry III	3
CHE	M 421 ⁻	Advanced Organic	٠ 3
		Chemistry	
CHE	M 499	Independent Study	1-3

Course Sequence/ACS Certified Program

FRESHMAN YEAR

First Semester

BIO	163	General Biology I	4		
CHEM	160	General Chemistry I	4		
ENG	110	Writing Effective Prose	3		
MATH	160	Calculus I	4		
Second Semester					
BIO	164	General Biology II.	4		
CHEM	161	General Chemistry II	4		
MATH	161	Calculus II	4		
			^		
		General Education Course	3		

SOPHOMORE YEAR

First Semester

CHEM 201	Analytical Chemistry	5		
CHEM 306	Organic Chemistry I	4		
PHYS 260	General Physics I	4		
	General Education Course	3		
Second Semester				

CHEM 307	Organic Chemistry II	Ę
CS 140	Computer Science I	3
PHYS 261	General Physics II	4
	General Education Course	3

JUNIOR YEAR

First Seme	ster	
CHEM 311	Physical Chemistry I	
CHEM 327	Biochemistry I	4
ENG 300	Technical Writing	3
GER 110	Basic German I	4
Second Se	emester	
CHEM 312	Physical Chemistry II	5

Secor	nd Ser	nester	
CHEM	1312	Physical Chemistry II	5
CHEM	1320	Inorganic Chemistry	4
		General Education Course	3
GER	111	Basic German II	4
SENIOR YEAR			

First Semes	ter		
CHEM 401	Ànalytical		4
	Instrumentation		
	Advanced Chemistry		3
	Elective (see below)	٠,	
	Chemistry and free		8
	electives		

WILLIAM PATERSON COLLEGE

Second Semester			
CHEM 426	Organic Spectroscopy	4	
CHEM 480	Seminar in Chemistry	1	
	Chemistry and free	9	
	electives		

Note: All chemistry-physics courses must be taken in the fall or spring. General Education courses may be taken in presession or summer school.

B.S. in Chemistry

MAJOR	REQUIREMENTS	(Lecture	an	d Lab)
		43	-44	credits

		Cicani
CHEM 160	General Chemistry I	4
CHEM 161	General Chemistry II	4
CHEM 201	Analytical Chemistry	5
CHEM 306	Organic Chemistry i	4
CHEM 307	Organic Chemistry II	5
CHEM 311	Physical Chemistry I	4
CHEM 312	Physical Chemistry II	5
CHEM 320	Inorganic Chemistry	4
CHEM 327	Biochemistry I	4
	Advanced Chemistry	3-4
	Electives*	
CHEM 480	Seminar in Chemistry*	1
	•	

CHIL	WI 400	Serrinar in Cherris	ııı y	,
DIRE	CTED E	LECTIVES	30	credits
BIO	163	General Biology 1		4
BIO	164	General Biology II		4
CS	140	Computer Science	1	3
ENG	300	Technical Writing		3
MAT	H 160	Calculus I		4
MATH	H 161	Calculus II		4
	260	General Physics I		4
PHYS	261	General Physics II		. 4

*ADVANCED CHEMISTRY ELECTIVE

1-4 credits

Choose one	of the following:	
CHEM 321	Advanced Inorganic	3
	Chemistry*	
CHEM 322	Environmental Chemistry	4
CHEM 328	Biochemistry II*	3
CHEM 401	Analytical '	4
	Instrumentation	
CHEM 403	Physical Chemistry* III	3
CHEM 421	Advanced Organic	3
	Chemistry*	
CHEM 423	Chemistry of Natural	4
	Products	*
CHEM 426	Organic Spectroscopy	4
CHEM 499	Independent Study	1-3
	•	

Course Sequence/B.S. Program

FRESHMAN YEAR

HIST SE	emeste	er	
BIO	163	General Biology I	4
CHEM	160	General Chemistry I	4
ENG	110	Writing Effective Prose	3
MATH	160	Calculus I	4
Secon	d Sem	nester	
BIO	164	General Biology (I	4
CHEM	161	General Chemistry II	4
MATH	161	Calculus II	4
		General Education Course	3

^{*}Lecture only

SOPHOMORE YEAR

First Semester CHEM 201

CHEM 306	Organic Chemistry I	4		
PHYS 260	General Physics I	4		
	General Education Course	3		
Second Semester				
CHEM 307	Organic Chemistry II	5		
CS 140	Computer Science I	3		
PHYS 261	General Physics II	4		
	General Education Course	3		

Analytical Chemistry

JUNIOR YEAR

First Semester CHEM 311 Physical Chemistry I 4 **CHEM 327** Biochemistry I Δ ENG 300 **Technical Writing** 3 General Education Course 3 **Second Semester**

Physical Chemistry II

Inorganic Chemistry

General Education Course 3

SENIOR YEAR Fir

CHEM 312

CHEM 320

rst Semest	er ·	
	Advanced Chemistry	3-4
	Elective	
	General Education Course	3
	Chemistry and free	9
	electives	
cond Sen	nester	

Ca

Jocolia Jo	1100101	
CHEM 480	Seminar in Chemistry	1
	Chemistry and free	14
	electives	

Note: All chemistry-physics courses must be taken in the fall or spring. General Education courses may be taken in presession or summer school.

CERTIFICATION REQUIREMENTS 44 credits

Students who are interested in obtaining certification in comprehensive science must complete the sequence on page 93.

CHEMISTRY MINOR 18 credits

CHEM 160	Gener	al Cl	nemistry I		4
CHEM 161	Gener	al Ch	nemistrý II		4
Plus an additional 10 credits in chemistry by					
advisemen	t.				10

NOTE: Students choosing a minor in chemistry are strongly urged to elect the following: MATH 160, 161, PHYS 260, and PHYS 261.

Courses

5

Unless otherwise noted, all courses are for 3

CHEM 110 Crisis of the Environment

Considers issues, means and ethics of uncontrolled utilization of chemicals. Lecture only.

CHEM 120 Concepts of Chemistry

The concepts and principles of general, organic, and biochemistry. Primarily intended for health science and liberal studies students. Lecture only.

CHEM 159 Introductory Chemistry

An introduction to the concepts, principles and terminology of chemistry. Designed primarily for students who have little or no background in the fundamentals of chemistry, who wish to learn the basics of chemistry, or who wish to meet the requirements of CHEM 160. Not a liberal studies course. Lecture only.

CHEM 160-161 General Chemistry I and II

The electronic structure of atoms, molecular structure and chemical bonding, the states of matter, solutions, reaction rates and chemical equilibrium, ionic equilibria, thermodynamics. Acidbase, electrochemistry and coordination compounds. Laboratories must be taken concurrently.

4 credits each

Lecture and lab (CHEM 060, 061)

CHEM 164 College Chemistry

Concepts of atomic and molecular structure and reactivity, rates and equilibria, and organic chemistry. Part of a terminal sequence with CHEM 165.

4 credits

Lecture and lab (CHEM 064)

CHEM 165 Organic Biochemistry

Introduces concepts of organic chemistry and biochemistry; emphasizes metabolism and its control in the context of physiological chemistry. A terminal course. Prerequisite: CHEM 164

4 credits

Lecture and lab (CHEM 065)

CHEM 201 Analytical Chemistry

The theory and methods of quantitative analytical chemistry with emphasis on chemical equilibrium and practical laboratory experience.

Prerequisite: CHEM 161

5 credits

Lecture and lab (CHEM 001)

CHEM 306-307 Organic Chemistry I and II (for chemistry majors)

CHEM 308-309 Organic Chemistry I and II

(for biology majors)

Studies the chemistry of carbon compounds including preparative methods and reaction mechanisms. Emphasizes structural analysis by physical and spectroscopic methods.

Prerequisite for each. CHEM 161 4 credits each: CHEM 306, 308, 309 5 credits each: CHEM 307 (Lab CHEM 007) Lecture and lab (CHEM 006, 008, 009)

CHEM 311-312 Physical Chemistry I and II

Chemical thermodynamics, behavior of gases, phase rule, reaction kinetics, electrochemistry, and introductory quantum mechanics.

Prerequisites: CHEM 160, 161, MATH 160, 161, PHYS 260, 261 I-4 credits

II-5 credits

CHEM 320 Inorganic Chemistry

Systematic study of the elements and their compounds with special reference to their location in the periodic table. Prerequisite: CHEM 161

4 credits

Lecture and lab (CHEM 020)

CHEM 321 Advanced Inorganic Chemistry

Coordination chemistry, kinetics and mechanisms of inorganic reactions and organometallic chemistry.

Prerequisite: CHEM 320 or permission of the instructor and CHEM 312 Lecture only

CHEM 322 Environmental Chemistry

Considers the composition and dynamics of the environment, the reactions that take place, and the impact of chemicaLtechnology.

Corequisite: CHEM 307 or 309 4 credits

Lecture and lab (CHEM 022)

CHEM 327 Biochemistry I

Considers the properties of metabolites, macromolecules, and polyelectrolytes, and the metabolic processes occurring in living organisms.

Prerequisite: CHEM 307 or 309

Chemistry and biology majors elective 4 credits

Lecture and lab (CHEM 027)

CHEM 328 Biochemistry II

Elaborates on topics discussed in CHEM 327, with emphasis on macromolecular structures such as mitochondrial and photosynthetic membranes, multienzyme complexes, and the mechanisms of replication, transcription, and translation. Prerequisite: CHEM 327 Lecture only

CHEM 401 Analytical Instrumentation

Advanced applications of the methods of instrumental analysis to specialized prob-

Prerequisites: CHEM 307 or 309 and 312 4 credits

Lecture and lab (CHEM 001)

CHEM 403 Physical Chemistry III

Provides the theoretical basis for understanding the electronic structure of molecules. Prerequisite: CHEM 312

Lecture only

CHEM 410 Industrial Chemistry

Stresses the practical aspects of the chemical industry's practices, economics, rationale and decisions. Introduces a detailed description of the common commodities, basic raw material sources, technological problems and environmental concerns of chemical processes. Prerequisities: CHEM 307 or 309 3 credits Lecture only

CHEM 421 Advanced Organic Chemistry

Advanced study of organic chemistry with deliberate emphasis on reaction mechanisms, principles of electronic theory and its application to an understanding of organic mechanisms.

Prerequisites: CHEM 307 or 309 and CHEM

Lecture only

CHEM 423 Chemistry of Natural Products

Major classes of natural products of plant origin and the theory of biogenesis. Methods of identification and structural elucidation of natural products.

Prerequisite: CHEM 307 or 309

4 credits

Lecture and lab (CHEM 023)

CHEM 426 Organic Spectroscopy

Introduces the theory and application of spectroscopy to the structure determination of organic molecules.

Prerequisites: CHEM 307 or 309 and CHEM

312 4 credits

Lecture and lab (CHEM 026)

CHEM 480 Seminar

A study of specialized problems in chemistry and an introduction to the chemical literature.

1 credit

CHEM 499 Independent Study

As approved and to be arranged. 1-3 credits

Physics

Professor-S. La Assistant Professors—J. Bufano

Courses and concentrations prepare students for entry into graduate school or science-oriented careers in industry, research, teaching, environmental or governmental work. Offerings include service courses required by other curricula.

LIBERAL STUDIES DEGREE 49-50 credits WITH A CONCENTRATION IN PHYSICS

CHEM	160	General Chemistry I	4
CHEM	161	General Chemistry II	4
MATH	160	Calculus I	4
MATH	161	Calculus II	4
MATH	201	Calculus III	4
MATH	322	Differential Equations	3
PHYS	260	General Physics I	4
PHYS	261	General Physics II	4
PHYS	300	Mechanics	3
PHYS	302	Electricity and	3
		Magnetism	
PHYS	480	Seminar	1
		Elective in Physics (by	3-4
		advisement)	
-			

Plus two additional courses in chemistry by advisement

RECO	RECOMMENDED ELECTIVES 22 credits				
CS	140	Computer Science I	3		
MATH	231	Statistics I for Science	3		
		Majors			
PHYS	250	Basic Electronics I	3		
PHYS	301	Thermal Physics	3		
PHYS	304	Optics	4		
PHYS	403	Modern Physics I	3		
PHYS	404	Modern Physics II	3		
		•			

Courses

Unless otherwise noted, all courses are for 3 credits.

PHYS 110 Introduction to Physics

Designed to give the non-science student an adequate understanding of the nature of science and of the fundamental physical laws which govern our everyday lives. Topics include forces, motion, heat energy, electricity, atomic energy, and fundamental ideas in chemistry. Laboratory work is closely integrated with the above topics. 2 hours lecture, 2 hours lab 4 credits

PHYS 165 Energy and Earth's Natural Resources

Explores the energy demand in human development. Covers the availability and use of energy sources (oil, natural gas, solar energy, fission fuels), and the ways in which hydro, thermal and nuclear energy are converted into mechanical and electrical energy. Proposed and speculative methods of meeting our energy needs are discussed.

PHYS 170 General Astronomy

A non-mathematical study of our nearest star, the sun, as well as its planets and their moons. Star counts and the structure of our island universe of stars, dust and gas arediscussed. Reading on the "Big Bang" theory of how thousands of galaxies were scattered at fantastic speeds. Not open to students who have previously taken an astronomy course.

2 hours lecture, 2 hours lab

PHYS 222 Solar System

The nature of our earth as a planet. Its seasons and motions made simple by use of the celestial globe; a study is made of conditions on the sun, the moon and the planets. Monthly laboratories (optional), are held after nightfall to view the brighter constellations, the more important nebulae and clusters, and the moon and planets through the telescope. A minimum of mathematics.

2 hours lecture, 2 hours lab

PHYS 250-251 Basic Electronics I and II

The general philosophy of electronics as a "way of life" and its function as a basic tool in our present scientific culture. Fundamentals of electronics including basic components and circuit configurations. Actual circuits are assembled, tested and their behavior explored. A descriptive laboratory course in basic electronic circuits without the use of extensive mathematics.

Prerequisite: PHYS 110 or permission of the instructor

3 credits each

2 hours lecture, 2 hours lab

PHY\$ 255-256 College Physics I and II

An introductory physics course for students who do not intend to specialize in the physical sciences. Requires no mathematics beyond algebra and geometry as prerequisites. Underlying principles and basic laws of Newtonian mechanics, electromagnetism, and modern physics are explored.

4 credits each

3 hours lecture, 3 hours lab

PHYS 260-261 General Physics I and II

The basic course for physics, chemistry and mathematics majors and a foundation for all advanced work in physics. Topics: introduction to vectors, statics, kinematics, work and energy, impulse and momentum, rotational motion, elasticity, harmonic motion, sound and acoustics, electrostatics, DC and AC electric circuits and instrumentation, magnetostatics, electromagnetic waves, geometrical and physical optics, polarization and an introduction to modern physics.

Corequisites: MATH 160, 161

4' credits each

3 hours lecture, 3 hours lab

PHYS 270 Sound and Acoustics

Intended primarily for music majors and liberal arts students interested in music. Shows how the theory of sound is utilized in sound production, reproduction and reception. Topics include sound waves, modes of wave generation, reception frequency and pitch, scales, tuning and temperament, acoustics, production of musical sounds by instruments and by electronic methods.

Prerequisite: PHYS 110 or permission of the instructor

3 hours lecture/demonstration

PHY\$ 300 Mechanics

Covers basic concepts in mechanics as required for advanced work in physics. Topics: mathematical formulation of mechanics utilizing vector analysis, particle dynamics, systems of particles, translational and rotational movement of rigid bodies, angular momentum and energy considerations.

Prerequisite: PHYS 261; Corequisite: MATH 319

4 credits

3 hours lecture

PHYS 301 Thermal Physics

Develops the principles of classical thermodynamics from the dynamics of many-body systems following the approach of Gibbs. The consequences of these principles are studied in a variety of situations drawn from physics, chemistry and related fields.

Prerequisite: PHYS 300

3 hours lecture

PHYS 302 Electricity and Magnetism

Basic course covering the fundamental concepts of electricity and magnetism. Topics: vector mathematics, electrostatics, solution of electrostatic problems, dielectric materials, circuitry and solution of networks, magnetostatics, electromagnetic induction, magnetic materials, atomic origin of magnetism, ferromagnetic materials, introduction to field theory.

Prerequisite: PHYS 300

PHYS 304 Optics

Theoretical and experimental aspects. Topics: reflection and refraction, plane and spherical surfaces, thin lenses, field stops and aperture stops, ray-tracing, aberrations, optical instruments, nature of light waves, superposition and interference, Fesnel and Fraunhofer diffraction, diffraction gratings, Cerenkov radiation, nature and origin of polarization.

Prerequisite: PHYS 302

4 credits

3 hours lecture, 3 hours lab

PHYS 333 Stars

A study of the sun as a star in the Milky Way galaxy. Eclipses, multiple stars, variable stars, gaseous nebulae, theories concerning composition, origin and evolution of the universe. A minimum of mathematics. 2 hours lecture

PHYS 400 Electromagnetic Fields and Radiation

Maxwell, Laplace and Poisson equations are developed and applied. Scalar and vector potentials. Boundary value problems. Introduction to radiation theory. Prerequisite: PHYS 302 3 hours lecture.

PHYS 403 Modern Physics I

Spectroscopic and other representative phenomena that form experimental foundations of modern physics. Topics: special theory of relativity, dual properties of electromagnetic radiation, Young's diffraction, blackbody radiation, photoelectric effect, Compton effect, specific heats, Frank-Hertz experiment, Rutherford scattering, Bohr's atomic model, quantum mechanical description of a particle, elementary theory of nuclear structure and reactions. Prerequisite: PHYS 300

3 hours lecture

PHYS 404 Modern Physics II

Fundamental principles and applications of auantum mechanics. Topics: derivation of Schrodinger's equation; mathematical properties of wave functions; applications to simple atomic structure, to potential barrier problems, to perturbation theory, to anomalous Zeeman effect, and to band theory of conduction electrons. Prerequisite: PHYS 403

3 hours lecture

PHYS 410-411 Electronics I and II

An applied course emphasizing the experimental nature of electronics. Topics: DC and AC circuits, voltage and current regulators, special circuits, semi-conductor circuit elements, diodes and transistors, transistor circuitry, negative feedback and applications, oscillators, switching circuitry, wave-form generators.

Prerequisites: PHYS 260, 261

4 credits each

3 hours lecture, 3 hours lab

PHYS 480 Seminar

Emphasis on research, current literature and classroom discussion of new ideas. Prerequisite: permission of the instructor 1 credit-

PHYS 499 Independent Study

As approved and to be arranged 1-3 credits

Environmental Studies

Professor—C.W. Lee **Associate Professor**—R. McCallum, program director

The environmental studies program is an interdisciplinary, comprehensive course of study that presents an understanding of the interrelationships among the scientific, sociological, economic and political aspects of environmental concerns.

Requirements for the major include a firstsemester freshman foundations course: a set of three one-year long "core" courses: Ecosystems, Resources, and Social and Human Interactions; field experience (an internship with an environmental agency); a land-use course; a junior seminar in which current articles are critically evaluated orally and in writing; senior seminars, featuring a team approach to a practical problemsolving effort, and such major electives as topographic analysis, pollution measurements, soil science, hydrology and computer applications. Additionally, the student must fulfill the requirements for a second major field of study.

MAJOR REQUIREMENTS 45 credits A. Interdisciplinary 22 credits Courses* ENV 110 Environmental 4

ENV	110	Environmental Foundations I (Prerequisite to Core I, II, and III)	4
ENV	210	Core IA, Ecological Dynamics*	3
ENV	211	Core IB, Ecological Toxicology	3
ENV	230	Core IIA, Resources	3
ENV	231	Core IIB, Resources	3
ENV	240	Core IIIA. Social and Human Interactions	3
ENV	241	Core IIIB, Social and Human Interactions	3

B. Mo Electi		11 credits (minim	um)
ENV	120	Physical Geology	4
ENV	150	Meteorology	3
ENV	175	Hydrology	3
ENV	201	Topographic Analysis	4
ENV	330	Community Planning and Design	3
**EN\	/ 370	Soil Science	4
**EN\	/ 390	Pollution Measurements	4
ENV	450	Computer Applications	3

^{*}Core courses can be taken simultaneously in combination with one another. As a year sequence, the student is required to take the A portion before the B portion: e.g., Core IA before Core IB.

^{**}CHEM 160-161, or equivalent, is a prerequisite †Must include ENV 370 and/or ENV 390.

C. Major Required Courses 12 cre			
ENV	301	Field Experience	3
ENV	380	Junior Seminar	2
ENV	389	Environmental Factors i Land Use	in 3
ENV	480	Şenior Seminar	2
ENV	481	Senior Seminar	2

Required Second Major

A major in environmental studies is possible only in conjunction with the fulfillment of the requirements of a second major field of study. In addition to pursuing interests in the breadth of interdisciplinary relationships, students also study in depth one of the traditional disciplines contributing to environmental understanding, e.g., biology, sociology, economics, earth science, mathematics etc. Requirements for these second majors are listed in the catalog under their respective departments.

The double major is intended to give students a more complete disciplinary approach to work in the environmental field. Graduates have the knowledge and skills of a traditional academic discipline and the necessary appreciation of other disciplines concerned with understanding environmental problems, thereby making them more competitive in the job market. Student advisement from both the environmental studies program director and the department chairperson of the second major is available. Both also guide students in their choices of electives.

General Education Requirements

Majors must earn a grade of "C" or better in ENG 110 Writing Effective Prose by the beginning of the third (junior) year. In addition, majors are required to take a second semester of writing e.g., ENG 300 or ENG 330, and a course in public speaking, eg. COMM 110 Communication in Action, to fulfill the program's goal of increasing the student's communicative skills.

All other requirements are according to the College's General Education requirements, except that 3-9 credits from the interdisciplinary foundations and core courses may be counted toward fulfilling both the natural science and social science distributions.

Liberal Studies Major

Students interested in several disciplines offered by the School of Science, but not wishing to major in any particular one, may pursue the liberal studies major and earn a bachelor of science degree in liberal studies.

In this option, students, with the assistance of an academic advisor, select courses totaling 50 credits from at least three of the school's majors, taking no more than 18 credits in any one of them.

Under this liberal studies major, students interested in earth sciences may select environmental studies and earth sciences as the double majors. Since earth sciences is not a major-degree program at WPC, students are given, in addition to environmental studies courses, a concentration of courses designed to prepare them for science-oriented careers in industry, research,

teaching and environmental or governmental work, or for entry into graduate school.

schoo	Ol.		
MAJO	R REG	UIREMENTS 50 cred	tits
Earth	Scien	ces 18 cred	tits
ENV	120	Physical Geology	4
ENV	220	Historical Geology	4
Plus		st 10 credits chosen from t	he
		, advisement:	110
ENV	175	Hydrology	3
ENV		Mineralogy and	3 4
		Petrology	
ENV	315	Introduction to	3
		Oceanography	
ENV	327	Geomorphology	3
ENV	329	Stratigraphy and	3
		Sedimentation	
ENV	370	Soil Science	4
ENV	420	Structural Geology	4
Addit	ional	Required Courses (elective)	
DIO.	4.0	32 cred	
BIO	163	General Biology I	4
BIO	164	General Biology II	4
CHEM		General Chemistry I	4
CHEM		General Chemistry II	4
MATH MATH		Calculus I	4 4
		Calculus II General Physics I	
PHYS	261	General Physics II	4 4
11113	201	General Fitysics II	4
Samp	le Fou	ır-Year Program for the Doub	ole
Majo	r in Er	vironmental Studies	
		IN YEAR 31-32 cred	iits
Fall			
ENV	110	Environmental	4
		Foundations I	
ENG	110	Writing Effective Prose	3
		General Education	8
		Cour s es	
0	_		
Spring			
ENV	240	Core IIIA: Social and	3
CON 41	1 010	Human Interactions Communication in Action	2
COIVII	VI 210	Other Major Course	3
		General Education	3 3 6
		Courses	U
		CC413C3	
2. SO	PHOM	ORE YEAR 32 cred	lits
Fali	044	Core IIID Control and	2
ENV	241	Core IIIB: Social and	3
ENN/	240	Human Interactions	. 2
ENV		Core IA: Ecosystems	.3
	144	Collogo Chamista	
CHLIVI	164	College Chemistry	1
	164 1064	College Chemistry Lab	1
		College Chemistry Lab General Education Course	1 3 3
		College Chemistry Lab	3 1 3 3
Spring	1064	College Chemistry Lab General Education Course	1 3 3
Spring	064	College Chemistry Lab General Education Course Other Major Course	
Spring ENV	064	College Chemistry Lab General Education Course Other Major Course Core IB: Ecological	3 3
ENV	1064 211	College Chemistry Lab General Education Course Other Major Course Core IB: Ecological Toxicology Core IIA: Resources	3
	211 230	College Chemistry Lab General Education Course Other Major Course Core IB: Ecological Toxicology Core IIA: Resources	3
ENV	211 230 1165	College Chemistry Lab General Education Course Other Major Course Core IB: Ecological Toxicology	
ENV ENV CHEM	211 230 1165	College Chemistry Lab General Education Course Other Major Course Core IB: Ecological Toxicology Core IIA: Resources Organic Biochemistry	3

Other Major Course

3. JUI	NIOR	YEAR 30 c	redits
ENG	300	Technical Writing	3
or ENG ENV ENV	330 231 389	Critical Writing Core IIB: Resources Environmental Factors in Land Use	3 3 3* 3*
Spring ENV ENV	g 301 380	Field Experience Junior Seminar Environmental Elective	3 2 3-4 3* 3*

Fall ENV	·480	Senior Seminar Environmental Elective	2 3-4 3* 3* 3*
Sprin ENV	g 481	Senior Seminar Environmental Elective	2 3-4 3* 3*

NOTE: This list incorporates the environmental studies major and elective requirements and some general education requirements into a suggested sequential plan. Requirements for the second major and additional general education requirements make up the balance of the credits needed for graduation. As they vary according to the second major, they are not listed.

*Courses in the second major, general education, math or lab science.

Courses

4. SENIOR YEAR

Unless otherwise noted, all courses are for 3 credits.

ENV 110 Environmental Foundations I

An introduction to the subject of environmental concern from the viewpoints of several disciplines of the natural sciences, the social sciences, law and economics. Features the importance of the interrelations among these disciplines, both in the definition of the problems and in the student's understanding of why and in what forms such problems exist.

The biosphere and all of its integral components are explored as intertwining dynamic systems that exchange energy and matter in accordance with the principles of physical sciences.

The following is also studied: our influence upon the ecosphere, as disturbances (perturbation) or stresses upon these intertwining dynamic systems; social, political and economic ways in which we attempt to deal with the effects of such stress; the philosophical reasons behind our present environmental dilemmas and some solutions to these problems.

The companion workshop course is designed to provide hands-on experience to typify, amplify and illustrate the general concerns and principles taught in ENV 110. 4 credits

3 hours lecture and discussion, 2-1/2 hours workshop

ENV 115 General Geology

For the non-science student. Includes the study of the origin and evolution of the earth, the rocks and minerals that compose it, the geological processes that are constantly changing it, the origin and evolution of plants and animals that live upon it, and the role of geology in shaping man's environment. Laboratory and field trips introduce rocks, minerals, fossils, maps and landscape features.

4 credits

28-30 credits

2 hours lecture, 2 hours lab

ENV 120 Physical Geology

The nature and structure of the earth, the materials composing it, its place in the solar system, and the forces operating on and within it. Includes plate tectonics, seafloor spreading, the origin of mountains and volcanoes, the cause of earthquakes, and the work of running water, wind, waves, glaciers and ground water. In the laboratory and through field trips, the student becomes acquainted with common rocks and minerals, the use and interpretation of topographic maps and aerial photographs, and the work of the various geological processes which change the landscape.

4 credits

3 hours lecture, 2-1/2 hours lab

ENV 150 Meteorology

Weather changes, the structure and composition of the atmosphere, the sun's effect on weather and climate and the processes within the atmosphere. Air mass movements, fronts, and tropical and extratropical storms. In the laboratory: the instruments used in weather observation, forecasting, and the study of daily weather maps.

2 hours lecture, 2 hours lab

ENV 175 Environmental Hydrology

The hydrologic cycle which includes precipitation, interception, evaporation, water use by plants, soil water and ground water. Emphasis on the effect of humans on the cycle including water supply and use, flooding, sewage treatment, irrigation, and drainage. Techniques for measuring hydrologic events and predictive calculations used to meet water supply and drainage needs.

2 hours lecture, 1 hour lab/field work

ENV 201 Environmental Topographic Analysis

The fundamentals for assessment of the impact of proposed structures and land form modifications on the human environment. Includes: surveying, basic engineering, mathematics, map construction and interpretation, elements of topographic drafting, photogrammetric studies, plats, site plans and field work to prepare the various exhibits essential for environmental analysis.

4 credits

2 credit lecture/2 credit lab and field work

ENV 210, 211 Ecosystems (Environmental Core 1A; 1B)

This sequence covers the basic fundamentals of what constitutes an ecosystem and the application of quantitative measurements in this area. An in-depth approach substantiates how and why problems can exist in our ecosphere and challenges the student's curiosity to evaluate alternative solutions.

Core IA emphasizes the dynamic ecological principles: energy flow, nutrient cycling, pathways of pollutants and the effects of human interactions. These are used to illustrate the importance of our relationships to the natural environment.

Core IB acquaints the student with the consequences of chemical stress upon the structure and function of ecosystem components and their interrelationships. Includes some fundamentals of hazard assessment—scientific judgment of the probability of harm resulting from the manufacture, transport and disposal of contaminants.

Prerequisites: ENV 110 and ENV 210 before ENV 211

3 credits each

ENV 220 Historical Geology

The study of the origin and evolution of the earth and life as revealed by the geological record in the rocks. Includes the concepts of plate tectonics and sea-floor spreading, the origin, growth, and drift of the continents, the rise and fall of mountain ranges, the advance and retreat of the seas and glaciers, and the evolution of plants and animals as shown by the fossil record. Major emphasis on the geological history of North America.

Prerequisite: ENV 120

4 credits

2-1/2 hours lecture, 3 hours lab

ENV 225 Mineralogy and Petrology

Crystallography, morphology, and physical properties of minerals as related to their crystal structure and chemical properties and the identification and classification of the more important rock-forming and oreorming minerals. The origin, composition, and classification of igneous, sedimentary, and metamorphic rocks with emphasis on the geologic interpretations that can be made from their occurrence. In the laboratory: The identification of rocks and minerals, particularly those of economic or environmental significance, and the study and classification of specimens collected on field trips.

4 credits

3 hours lecture, 2-1/2 hours lab

ENV 227 The Geology of New Jersey

The geological materials and processes which have formed the land features evident in New Jersey and its environs. Emphasis on field trips and laboratory work. Study of the Palisades sill, the Watchung and the Ramapo Mountains, glacial moraines, and the Appalachian geosyncline.

Prerequisite: ENV 120 2 hours lecture, 2 hours lab

ENV 230-231 Resources (Environmental Core IIA and IIB)

In this sequence, resources are treated as flows of energy and matter from environmental sources, through natural and manmade systems, and back to the heat and waste sinks in the environment.

The fundamental laws of physical science governing these processes are developed and applied to particular cases. A global perspective is emphasized with respect to water and soil resources, as well as to the limiting capacities of air, earth and water to recycle the wastes of both natural systems and industrial societies.

This course uses a quantitative approach to all subjects and makes use of the perspectives and techniques of physics, geology and chemistry to describe and evaluate the world's resources.

Prerequisites: ENV 110; ENV 230 before ENV 231. A year of either chemistry or physics is strongly recommended but not required. 3 credits each

ENV 240-241 Social and Human Interactions (Environmental Core IIIA and IIIB)

Core IIIA: The variety and complexity of human/environment relationships. Provides students with a basic knowledge of the elements of human cultural systems that interact with the environment, accomplished through presentations of appropriate topics from the disciplines of psychology, law, economics, anthropology and sociology.

Core IIIB: Housing and urban behavior, issues in human demography, various economic factors, the legislative base and cultural resource management. Emphasis on the analysis of specific problems and cases. Students are required to complete a major case-oriented project during the semester.

Prerequisites: ENV 110; ENV 240 before ENV 241

3 credits each

ENV 301 Field Experience

This course places the student in an active working experience with either a professional agency, a business or a municipal body involved in some pertinent work related to the environment. Objectives are to expand the students' backgrounds and their appreciation of the field, give them first-hand experience and introduce them to potential employers or help them identify areas of specialization for graduate study. Students must work a minimum of one full day per week with the agency to fulfill an on-the-job requirement. This requirement can also be fulfilled by a cooperative education placement with the program director's recommendation.

ENV 315 Introduction to Oceanography

The study of the origin, evolution and extent of the oceans; waves, currents, tides, and tsunami; the plant and animal life of the sea, the nature and topography of the sea floor; recent discoveries relating to sea floor spreading and continental drift; the role of the oceans in weather and climate.

Prerequisite: 1 year of science or permission of the instructor

2 hours lecture, 2 hours lab

ENV 327 Geomorphology

The nature, origin, and evolution of landscapes and materials at or near the surface of the earth and the processes which bring about changes. The nature and properties of soils and the role of man and his activities.

Prerequisites: ENV 220, 225 or permission of the instructor

2 hours lecture, 2 hours lab

ENV 329 Stratigraphy and Sedimentation

The origin, occurrence, and classification of sedimentary rocks, recognition of depositional environments, introduction to the methods used in stratigraphy and geochronology, and the use of sedimentary structures in the interpretation of the geological record. Includes field trips to areas of interest in New Jersey, New York and Pennsylvania.

Prerequisite: ENV 220 or permission of the instructor

2 hours lecture, 2 hours lab

ENV 330 Community Planning and Design

An introduction to the types and processes of community planning, development and redevelopment, and the constituent components of the built environment. The forms and shapes of contemporary human settlement are reviewed, as are the mechanisms of decision-making at various levels of jurisdiction, such as affect community planning and design vis-a-vis the impact on the natural environment.

Objectives: to develop familiarity with the terminology and visual language of community planning and design, enlarge the understanding of the forms and functions of the various kinds of land uses, and develop skills in the inventorying and analysis of data, and how to communicate the latter in graphic terms.

2 hours lecture, 2-1/2 hours studio

ENV 370 Soil Science

The fundamentals of soil science. Topics: soil genesis and classification; its physical and chemical properties; soil microbiology, soil types found in New Jersey, human uses of soils and an overview of historical and current agricultural practices. Laboratory emphasizes hands-on experience, with physical and chemical measurements. Prerequisite: CHEM 160 or 164

4 credits 2½ hours, lecture and lab

ENV 380 Junior Seminar

Designed to give third-year students a chance to reflect upon their reasoning processes and learn how to critically evaluate a number of topics of major environmental concern. Methods of critical evaluation are taught as a means of investigating the logic and reasoning behind ideas and concepts. Arguments are analyzed for format, logic, justification and persuasiveness. Students have the opportunity to study independently a problem selected in consultation with the instructor. All students are expected to take an active part in the discussions, evaluations and debates.

2 credits

ENV 389 Environmental Factors in Land Use

Introduces the subject of the use and misuse of land, the consequent need for governmental review and regulation and the important role of a Natural Resource inventory (NRI) in that process.

Surveys the components of an N.R.I. and shows how portions of one are compiled. Final class sessions are devoted to students' oral presentations of their semester projects.

Prerequisite to the senior seminars. 3 hours lecture.

ENV 390 Environmental Pollution Méasurement

Presents a practical way to test water quality. Evaluates all of the contributing sources of surface waters and investigates the chemical and biological factors that affect water quality. Theories and techniques of chemical analyses of non-gaseous pollutants, as found in surface waters, rain, snow and sediments.

Students learn to perform multiple water analyses in the field and are expected to evaluate their appropriateness in determining water quality.

Prerequisites: Chemistry CHEM 160-161 or CHEM 164-165

4 credits

2 hours lecture, 2 hours lab

ENV 420 Structural Geology

Structural geology deals with the architecture of the rocks which make up the earth and is concerned with the recognition, mapping and interpretation of the geological features of the landscape. Introduction to the origin of structures, structural development and the nomenclature, graphic portrayal and Interpretation of igneous, sedimentary and metamorphic structural features. Students learn through the use of maps and cross sections, aerial photographs, and the Brunton compass and other instruments in the laboratory and on field exercises. Prerequisites: ENV 225 and PHYS 255-256 or 260-261 or permission of the instructor

260-261 or permission of the instructor 4 credits

3 hours lecture, 2-1/2 hours lab

ENV 450 Environmental Computer Applications

The application of computer programming in the systems approach to large-scale planning and coordination projects. Students learn why and how the systems approach is best used in the formulation and implementation of environmental policies. "BASIC" language is taught, and students are introduced to simple and advanced techniques for plotting curves on the terminals. 2 hours lecture, 1-1/2 hours lab Prerequisite: A course in computer science

ENV 480-481 Senior Seminar

Student task force groups participate in a common project utilizing the methodologies and skills learned in the classroom. Included are graphic and communicative skills, data collection and evaluation, as well as field and laboratory techniques. Different specialized capabilities via the student's second major are also brought to bear upon the project. An example of such a project is the compilation of a natural resource inventory for a neighboring community.

The subject of the study is selected by the instructor, but the student's role in the team study is jointly determined by both the student and the instructor. Student and instructor maximally seek to simulate the working conditions of a professional consultant team engaged in a practical project. Regular work meetings are held during class time with a formal presentation at the end of the semester.

Prerequisite: ENV 389 and ENV 480 before ENV 481

2 credits each

ENV 499 Independent Study

Independent research under the supervision of a faculty member.
1-3 credits

Summer Studies at the New Jersey Marine Sciences Consortium

WPC holds membership in the consortium, and WPC students may take formal courses for academic credit in marine sciences at Sandy Hook or the Seaville Field Station. These courses are given from June through August and are primarily undergraduate courses for sophomore through senior levels. Independent study in the marine sciences is offered at undergraduate and graduate: levels. Course, offerings vary somewhat from year to year, but the following are usually repeated: introduction to marine sciences, oceanography, basic scuba (NAUI certification), basic sailing, marine biology, ecology of the estuary (graduate only) and coastal marine geology.

Additionally, series of short courses in sailing and seamanship, ranging from basic sailing through cruising workshop, are offered in cooperation with the Center for Ocean Studies at Gardner's Basin, Atlantic City.

Department of Mathematics

Professors—E. Goldstein, M. Kaplan (chairperson), E. Phadia, R. Stevenson, M. Tong Associate Professors—G. Dixon, B. Levine Assistant Professors—N. Assimakopoulos, J. Coomes, .H. Dehlinger, B. Eastman, S. Hyman, M. Jani, C. Mancuso, F. Norwood

The Department of Mathematics offers courses in principal branches of mathematics which prepare majors for professional careers and serve students in other departments.

The program, leading to a bachelor of arts degree, prepares the student in the basic concepts of mathematics and, at the same time, provides him with the opportunity to elect courses consonant with his professional objectives. A secondary school certification program is available.

Generally, a mathematics major takes MATH 160 and MATH 161 in the freshman year. Four years of high school preparatory mathematics, including trigonometry through inverse functions, is a prerequisite for MATH 160. Students not meeting this requirement, but who have three years of high school mathematics including a second year of algebra, should take MATH 116. Students who have taken calculus in high school may apply for advanced placement with credit. Mathematics majors are encouraged to minor in areas in which mathematics can be extensively applied, such as computer science, biology, chemistry, physics, economics, business administration, psychology and statistics.

Mathematics majors who intend to pursue a graduate program in mathematics are strongly advised to satisfy the intermediate reading level requirement in one of the following foreign languages: German, French, or Russian.

Mathematics majors, as well as all students at the College, have access to computer facilities for modern computation and research in applied sciences.

MAJOR REQUIREMENTS 33 credits				
MATH 160	Calculus I			
MATH 161	Calculus II	. 4		
		4		
MATH 200	Logic and Discrete	3		
1 4 4 TH 00 4	Mathematics			
MATH 201	Calculus III	4		
Math 202	Linear Algebra	3		
MATH 301	Modern Algebra	3		
MATH 302	Advanced Calculus I	3		
Plus nine c	additional credits from am	ong		
the followin	ıg:			
MATH 232	Statistical Computing	3		
MATH 303	Advanced Calculus II	3		
MATH 322	Differential Equations	3		
MATH 323	Foundations of Geometry	3		
MATH 324	Probability	3 3 3 3		
MATH 325	Topics from Applied	3		
	Mathematics	_		
MATH 361	Combinatorial Analysis			
MATH 380	Mathematical Models	3		
	and Applications			
MATH 399	Selected Topics	3-4		
MATH 401	Applied Algebra			
MATH 410	Life Contingencies	3 3		

MATH 421	Mathematical Statistics	3
MATH 422	Complex Analysis	3
MATH 423	Real Analysis	3
MATH 424	Introduction to Numerical	3
	Analysis	
MATH 425	Introduction to Topology	3
MATH 430	Probabalistic Modeling	3
MATH 499	Independent Study	1-3

CERTIFICATION REQUIREMENTS 46 credits

Students interested in obtaining teacher certification in mathematics must complete the following academic content requirements and the series listed on page 37:

MATH 323 MATH 324	Foundations of Geometry	3
MAIH 324	Probability	3

MINOR REG	QUIREMENTS	20-21	credits
MATH 160	Calculus I		4
MATH 161	Calculus II		4
MATH 202	Linear Algebra		· 3
Dlue throo	additional course	oc from	thoso

Plus three additional courses from those listed above under the mathematics major. At least two of the courses must be at the 300-level or higher.

MINOR REQUIREMENTS 18-20 credits (For Students Majoring in Business, Economics, Biology, Psychology)

MATH 120	Finite Math	3
or		
MATH 202	Linear Algebra `	. 3
Plus one of	the following two groups	of
courses:		
MATH 130	Elementary Statistics I	3
and		
MATH 150	Applied Calculus I	3
MATH 160	Calculus I	4
and		
MATH 161	Calculus II	4
Plus nine cre	edits of mathematics elective	es.

ELECTIVES	. 12	credits
MATH 250	Applied Calculus II	3
MATH 218	Mathematics of Finance	e 3

and Applications

Statistical Computing

Mathematical Models

chosen from the following, or others by

advisement.

MATH 232

MATH 380

Statistics Minor

Offered in response to the demand for professionals trained in various areas of statistics such as biostatistics, quality control, operations research, economic forecasting, opinion polls and marketing analysis. This minor trains students to be proficient in statistical techniques useful in their chosen professions.

MINOR REQUIREMENTS 18 credits

For a Non-Mathematics Major

101 4 1101111	namemanes major		
MATH 120	Finite Math		3
or MATH 202	Linear Algebra		3
MATH 150	Applied Calculus I		3
MATH 230	Statistics I	,	3
MATH 332 MATH 324	Statistical Computing Probability	,	3 3
or MATH 430 MATH 421	Probabilistic Models Mathematical Statistics	•	3 3

For a Mathematics Major

	,,,a,,,,,,	
MATH 230	Statistics I	3
MATH 324	Probability	3
MATH 332	Statistical Computing	3
MATH 399	Topics in Applied	3
	Statistics	
MATH 421	Mathematical Statistics	3
Plus one of t	he following:	
Any 100-leve	el computer science course	3
BUS 470	An Introduction to	3
	Operations Research	
ECON 211	Economic Statistics II	3
MATH 410	Life Contingencies	3

Note: These courses cannot be used for both a math major and statistics minor.

Courses

3

3

Unless otherwise noted, all courses are for 3 credits.

MATH 101 College Arithmetic

Arithmetic operations with whole numbers, fractions, decimals, percents, introduction to exponents, and applications using consumer word problems.

MATH 105 Preparatory Algebra

Algebra equivalent to high school algebra I. Topics: simple equations, fractional equations, exponents, quadratic equations, and applications using word problems.

MATH 110 Contemporary Mathematics

Provides the mathematical understanding generally expected of an educated adult. Topics: elementary logic and set theory, mathematical systems, and either matrix theory or an introduction to computers (at the discretion of the instructor).

MATH 115 Intermediate Algebra

A continuation of the study of algebra. Serves as a preparatory course for the precalculus student. Topics: the real number system; algebraic operations; factoring; exponents, radicals; inequalities; solutions of linear equations; systems of linear equations. Should not be taken by students who have successfully completed a second year of high school algebra.

MATH 116 Precalculus

Relations and functions: linear, polynomial, rational, exponential, logarithmic, and trigonometric; trigonometric equations, complex numbers and roots of polynomials.

Prerequisite: three years of college preparatory mathematics or equivalent

MATH 120 Finite Math (for social, behavioral, and life sciences)

An introduction to topics from linear algebra and probability theory with emphasis on applications. Topics: elementary set theory, probability, matrices, systems of linear equations, linear programming, and game theory.

MATH 130 Elementary Statistics I

The development of statistical concepts, with applications to various disciplines. Includes descriptive statistics, probability, the normal distribution, sampling theory, elements of estimation and hypothesis testing, t-test, Chi square and correlation.

MATH 131 Elementary Statistics II

A follow-up to MATH 130. Expands ideas about statistical inference—for example, problems of estimation and testing of hypothesis involving more than two populations, analysis of variance, inferences about standard deviation, contingency tables and goodness of fit, correlation and regression analysis, and non-parametric methods.

MATH 150 Applied Calculus I (for biology, business, economics, psychology, social science)

The essential ideas of the calculus: functions, limits, continuity, differentiation, integration, elementary differential equations. Applications stressed. A knowledge of high school algebra is required; trigonometry is not required. May be followed by MATH 161 or 250 to complete one year of calculus.

MATH 160 Calculus I

Functions and operations on functions; limit and continuity of functions, derivatives, differentiation of algebraic functions and applications, differentials, and antiderivatives. Prerequisite: four years of college preparatory mathematics or equivalent. 4 credits

WILLIAM PATERSON COLLEGE

MATH 161 Calculus II

Fundamental theorem of the calculus; integration, applications of the integral; exponential and logarithmic functions and their derivatives; trigonometric and inverse trigonometric functions and their derivatives; techniques of formal integration. Prerequisite: MATH 150 or 160 4 credits

MATH 200 Logic and Discrete Mathematics

Logic: the sentential calculus; the predicate calculus (qualified statements); inference and proof.

Set Theory: Axiomatic foundations; partial ordering relations and their graphs; elementary lattice theory; Boolean algebras and applications to switching, theory; infinite sets; theory of cardinal and ordinal numbers.

MATH 201 Calculus III

A continuation of Calculus II. Topics: conic sections, polar coordinates, indeterminate forms, improper integrals, functions of more than one variable, vectors and analytic geometry in three dimensions, partial derivatives, multiple integrals, infinite series. Prerequisite: MATH 161 4 credits

MATH 202 Linear Algebra

Vector spaces, linear transformations, matrices, determinants, systems of equations, inner product spaces.

Prerequisite: MATH 161

MATH 218 Mathematics of Finance and the Theory of Interest

The mathematics used in finance, Topics: simple interest, equations of equivalence, annuities and their applications.

MATH 230 Statistics I

Measures of central tendency; measures of variation; graphical techniques for univariate and bivariate data; correlation and regression; probability; binomial and normal distributions; estimation; confidence interval; testing of hypothesis; non-parametric methods; analysis of variance.

MATH 232 Statistical Computing

Students solve statistical problems on the computer with the help of statistical packages, such as BMD, SPSS, SAS, DATATEXT, etc.

Prerequisite: MATH 131 or 230

MATH 240 Seminar: Acturial Examination I \sim

Designed to prepare students for the first actuarial examination. Problems from past examinations are discussed. Includes an indepth discussion of problems connected with limits.

Prerequisites: MATH 160, 161, 201

MATH 250 Applied Calculus II

Elementary differential equations, differentials, applications of integration to probability and statistics, functions of several variables and optimization. Lagrange multipliers. For students in business, economics, biology, and psychology.

Prerequisite: MATH 150 or 161

MATH 301 Modern Algebra

An introduction to groups, isomorphisms, rings, integral domains, and fields.

Prerequisite: MATH 200

MATH 302 Advanced Calculus I

Some basic theorems: nested interval, Bolzano-Weierstrass, Heine Borel. The limit, continuity, uniform continuity, supremum and infimum of sets, sequences, Cauchy convergence criterion, uniform convergence and infinite series.

Prerequisites: MATH 200 and 201

MATH 303 Advanced Calculus II

Reimann-Stieltjes integral, fundamental theorem of integral calculus, continuity and differentiation in Rⁿ, implicit function theorem, topology of the real line and selected topics.

Prerequisite: MATH 302

MATH 322 Differential Equations

A study of the methods of solution and applications of ordinary differential equations. Topics: first order equations, existence and uniqueness of solutions, separation of variables, exact equations, integrating factors; linear equations, undetermined coefficients, variation of parameters, Laplace, transforms; series solutions.

Prerequisite: MATH 161

MATH 323 Foundations of Geometry

Axiomatic and group theory approach to projective, affine and Euclidean geometries; projective geometry from synthetic and analytic view; finite projective geometries and applications to statistics, computer science, etc.; non-Euclidean geometries; matrix methods applied to geometry.

MATH 324 Probability

Probability axioms, combinatorial analysis, discrete and continuous sample spaces, random variables, mathematical expectation, probability functions, densities, distribution functions and special distributions. Prerequisite: MATH 150 or 161

MATH 325 Topics from Applied Mathematics

Topics selected from various branches of applied mathematics. The mathematical principles and theories involved are applied to problems in the physical sciences, mathematics, biological sciences, and business.

Prerequisite: MATH 322

MATH 361 Combinatorial Analysis

Problems in combinatorics, pigeonhole principle, generating permutations and r-combinations; unimodel property of binomial coefficients, inclusion-exclusion principle; recurrence relations, generating functions, combinatorial designs, practical problems in the theory of graphs, 5-color theorem.

Prerequisite: two semesters of calculus

MATH 380 Mathematical Models and Applications

Mathematical models: Markov chain models and applications; input-output models in economics; linear optimization (linear programming) models and health care, business, and transportation problems; game theory; graph (network) theory and applications.

MATH 399 Selected Topics

Topics not presently offered in other courses. Content changes each semester. 3-4 credits

MATH 401 Applied Algebra

Boolean algebra and applications to switching theory, automata (finite state machines) and Turing machines, recursive functions and some ideas in theory of computability, groups, rings, polynomial rings, finite fields applied to coding theory: development of binary group codes, Hamming codes, B-C-H codes; relations of geometry and statistical block designs to codes; importance of codes in communications.

MATH 410 Life Contingencies

Measurement of mortality; life annuities; life insurance; cash, refund annuities; multiple life functions; joint life probabilities; multiple increment functions; special pension topics

Prerequisites: MATH 218, 230, 324

MATH 421 Mathematical Statistics

Distribution theory, random sampling, point and Interval estimation, maximum likelihood estimation, hypothesis testing and linear models.

Prerequisite: MATH 324

MATH 422 Complex Analysis

Elements of complex analysis. Topics: complex numbers, analytic functions, Cauchy integral theorum, Cauchy integral formula, power series and conformal mapping.

MATH 423 Real Analysis

Riemann integration, measurable sets, measurable functions, Lebesque integration, metric spaces, completeness and selected topics.

Prerequisite: MATH 302

MATH 424 Introduction to Numerical **Analysis**

Treatment of computational techniques of numerical integration, numerical solutions of linear equations, polynomial approximation, iterative solution of non-linear equations and other basic processes of numerical analysis.

Prerequisite: MATH 322

MATH 425 Introduction to Topology

Topological spaces and their properties; Homeomorphisms and invariant properties; separation and countability axioms, network theory and applications. Prerequisite: MATH 302

MATH 430 Probabilistic Modeling

Sample spaces; probability measure; combinatorial principles; independence; conditional probability and Bayes theorem; simple probability models like binomial, poisson, geometric, inverse binomial, normal, etc; mathematical expectation; random walk; queing theory; Markov chain; birth and death processes; matching problem.

Prerequisite: MATH 161

MATH 499 Independent Study

As approved and to be arranged. 1-3 credits.

The School of Social Science

William Small, Dean Office: Science Complex 351

The School of Social Science, at present, offers undergraduate degree programs in sociology/anthropology, geography, political science and psychology. The programs are geared for those interested in a career in the social sciences, including teaching and preparation for graduate study.

For highly motivated students, the school offers an honors program in bio-psychology. Also offered by the School of Social Science are internships in areas such as social work, labor studies, political science and policy analysis. These offerings, along with independent study options and departmental seminars, encourage the development of unique theoretical and practical competencies as a part of one's total educational experience.

Pre-law advisement is offered in conjunction with the School of Social Science.

Persons with specific questions regarding study opportunities for the highly motivated student within the School of Social Science should contact the departmental chairperson or program coordinator responsible for the major area of academic interest. Information is also available through the office of the school dean.

Liberal Studies Major

Students interested in several disciplines offered by the School of Social Science, but who do not wish to major in any one of them, may pursue a liberal studies major in the school. Under this program, with the assistance of an academic advisor, students select a total of 48 credits from at least three of the school's majors, taking no more than 18 credits in any one of them.

Students who successfully complete this major earn a bachelor's degree in liberal studies: School of Social Science.

Honors Program in Biopsychology

The honors program in biopsychology draws on discoveries in such fields as behavior, genetics, neuroanatomy, brain chemistry, neurophysiology, psychopharmacology and many others to unravel the biology of the mind and behavior. The National Science Foundation awarded two grants to support the development of this program. As with all honors programs at WPC, biopsychology is not a major but a distinctive cluster of courses which adds breadth to, and reinforces, students' chosen majors.

Open to majors in psychology, biology, chemistry, sociology and nursing, this program is highly recommended for students planning graduate study—including premedical/dental/veterinary/graduate nursing students—and, in general, those students interested in clinical or research careers. As an honors program, biopsychology is designed for highly motivated individuals

seeking opportunities both to learn and to demonstrate excellence.

Interested students begin in the freshman. year with a set of foundation courses carefully selected to provide a firm basis for the study of more advanced disciplines. Students begin taking the core biopsychology courses in the junior year. The curriculum is enriched with seminars, discussion groups, research opportunities and speaker series. Students and faculty participate together in a closely knit academic community.

FOUNDATION (COURSES 41-46 cred	dits
Psychology PSY 110	General Psychology	3
Biology BIO 163-164	General Biology I and II	8
or BIO 212-213	General Anatomy and Physiology I and II	8
Chemistry CHEM 160-161	General Chemistry I and II	8
and CHEM:308-309	Organic Chemistry I and II	.8
or CHEM 164-165	College Chemistry and Organic Biochemistry	8
courses by adv	f the following two-semes visement: College Physics I and II	ter 8
PHYS 260-261	General Physics I and II	8
Computer Science 130	Introduction to Computers/BASIC	3
or CS 140	Computer Science I	3
Statistics PSY 202-203	Experimental Psychology I and II	8
or MATH 230	Statistics for Science Majors	3
CORE COURSE		atits
BIPY 474 BIPY 475	Neuroscience Behavior Genetics Topical Elective in Biopsychology (one or more)	4 4 3

(one or more) 353 Physiological Psychology 3

10-12 credits Elective courses are chosen by advisement. Recommended general education

MAJOR ELECTIVES

cours	es:·`		
SOC	130 -	Introduction to An- thropology	3
PHIL	110	Introduction to Philosophy	3
or PHIL	140	Introduction to Inquiry	3

Choose from sociobiology, biofeedback, psychopharmacology, biorhythms in physiology and behavior, and special current topics as announced.

Courses ·

Unless otherwise noted, all courses are for 3

BIPY 474 Neuroscience

A study of the brain; specifically the integrated roles of the anatomy, chemistry, histology and electrical activity of the central nervous system. The laboratory component focuses on anatomy and techniques for the study of brain functioning. Prerequisites: BIO 163-164 or 212-213 or PSY

353 or permission of the instructor.

4 credits/lecture and laboratory

BIPY 475 Behavior Genetics

An introduction to the concept of geneenvironment interaction as a determiner of both animal and human behavior. Exposure to various methods of experimental and correlational types of investigation. Prerequisites: BIO 163-164 or 212-213 or permission of the instructor.

4 credits/lecture and laboratory

BIPY 476 Developmental Biopsychology

Designed to introduce students to the scope and methods of a psychobiological approach to development. Stresses the phylogenetic and ontogenetic processes influencing individuals, groups, species and phyla, with special emphasis on human groups.

Prerequisites: PSY 353 or BIO 163-164 or BIO 212-213 or permission of the instructor.

BIPY 479 Biorhythms in Physiology and

Focuses on the role of biological rhythms in the adaptive functioning of organisms. Examines yearly, monthly, tidal, daily and sleep/dream cycles; the nature and control of internal clock mechanisms; and the implications of biorhythms for illness and psychopathology.

Prerequisites: BIO 163-164 or BIO 212-213 or BIO 214.

BIPY 499 Current Topics in Biopsychology Analyzes current approaches and research findings in areas of emerging interests.

Prerequisite: Permission of the instructor. 4 credits

PSY 353 Physiological Psychology

Explores the interrelationships between the physiology of the nervous system and psychological functions such as perception, consciousness, motivation, emotion, reward, memory and learning. Prerequisites: PSY 110 and BIO 214 or equivalent.

PSY 415 Psychopharmacology

Focuses on the major classes of drugs which alter brain and psychological functioning. Examines in depth and compares the effects of these drugs and the mechanisms by which they act.

Prerequisites: BIO 163-164 or 212-213 or PSY 353.

Department of Political Science

Professors—S. Kyriakides, L. Rosenberg, M. Weinstein (chairperson)

Associate Professors—M. Chadda, G. Gregoriou, S. Shalom, C. Sheffield, L. Wolf The political science curriculum is designed to help students understand the political aspects of society, to train them in the analysis of political problems, and to provide insights into the relation of the individual to government, and of governments to one another. Students planning to study law will find the political science major most useful.

In addition to taking 15 credits of required major courses, students elect other courses to meet particular personal and career interests such as comparative politics, political theory, international relations, women's studies, American institutions and political behavior.

A field-study or internship program in politics affords interested students the opportunity to apply and enhance their training. Upon satisfactory completion of basic courses, students are placed in governmental agencies (e.g., legislative offices, political parties and interest groups, criminal court systems, etc.). Prior application is necessary, and academic credit is granted upon the successful completion of the internship.

MAJOR REQUIREMENTS 33 credits POL 120 American Government and Politics POL Classical and Medieval 200 3 Political Theory 201 POL Early Modern Political 3 Theory* POL 230 Comparative Politics: 3 Development and Modernization POL 240 International Relations 3 POL 480 Seminar in Political 3 Science (open to juniors and seniors; different seminars are offered

each semester) Plus 18 credits of additional political science electives.*

*All political science majors are urged to take POL 261: Research Methods in Political Science.

Note: Majors in political science are encouraged to select courses in such related areas as economics and business, sociology/anthropology/geography, philosophy, history, African and Afro-American studies, and psychology.

MINOR REQUIREMENTS 18 credits

,POL	110	Introduction to Politics	3
POL	120	American Government	3
		and Politics	

Plus 12 credits of additional political science electives by advisement.

CERTIFICATION REQUIREMENTS 61 credits

Students interested in obtaining teacher certification in social studies must complete the requirements listed on page 109 of this catalog.

Courses

Unless otherwise noted, all courses are for 3

POL 110 Introduction to Politics

An inquiry into the nature, methodology and subject matter of politics. Basic ideas and problems in the field of politics—valuefree inquiry, freedom, authority, justice, equality, alienation, revolution and change, rights and obligation—are examined in their philosophical and practical socio-economic setting. Attention is also given to recent and contemporary crises.

POL 120 American Government and

Analysis of the structure and function of basic institutions of American government. The cultural setting, constitutional foundations and policy-making process are examined in detail.

POL 200 Classical and Medieval Political Theory

Analyzes, in depth, the political ideas of important classical and medieval philosophers and schools of thought. Ideas on justice, authority, rights and duties, equality, laws and constitutions, and the 'good life" are given an analytical and historical perspective.

POL 201 Early Modern Political Theory

The development of political theory from the inception of the modern state. Emphasis is on concepts such as natural law and natural rights, state and sovereignty, individual rights and the community. Selected political thinkers, such as Machiavelli, Hobbes, Locke and Rousseau are given particular attention and placed in historical perspective.

POL 210 Politics and Sex

A study of the implications for American political institutions of the changes in traditional roles of both men and women.

POL 220 Political Economy of the United States

Emphasizes the inter-relationship of politics and economics, and traces their influence on many of the major issues of our times.

POL 221 State and Local Government

A study of the American system of federalism through consideration of dynamics of government in the fifty states and their relationship to national and local governments with special emphasis on New Jersey. Attention is given to the executive, legislative, and judicial organizations and to the performance of governmental functions within a political framework.

POL 222 Politics of the Environment

An examination of the responsibilities and powers of the legislative and executive branches of government regarding environmental problems, their solutions and enforcement. Emphasis on ways in which supportive and non-supportive public opinion and interest groups influence government and environmental policy.

POL 224 Political Parties

A study of the organization and operation of political parties in the United States. Formal structure, the role of ideology, voting behavior and the influence of pressure groups on political parties are examined.

POL 230 Comparative Politics: Development and Modernization

An introduction to the field of comparative politics. Emphasizes a critical analysis of the principal approaches and models currently employed by political science in an attempt to understand the process of political change and the variegated political systems of the world.

POL 232 Politics of the Third World

A comparative analysis of selected transitional political systems in Latin America, Africa and Asia. General problems arising during the transition from traditional societies to modern industrial states are examined to describe typical patterns of political change.

POL 240 International Relations

A study of the nation-state system, the struggle for power, the changing patterns of the international system and the basic influences shaping the foreign policy of states.

POL 241 War and Peace

The origins of war and the quest for peace. The economic and psychological drives behind wars, weapons, systems and international "security" through armaments are analyzed.

POL 254 Urban and Suburban Politics

A theoretical and empirical analysis of the distribution of political power in both central cities and suburban areas.

POL 261 Research Methods in Political Science

Designed to enable students to formulate and operationalize hypotheses and to bring data to bear in analyzing these hypotheses. Techniques covered include survey research, analysis of existing sources of data, content analysis and simulations.

POL 262 Data Analysis for Political Science Covers some elementary statistical methods appropriate for the kinds of data collected by political scientists, and provides an introduction to the computer analysis of such data.

POL 300 Politics and Labor

A variety of philosophical, ideological and historical-institutional arrangements related to labor are explored. Emphasis on the origins and development of trade unionism and class consciousness; relations between capital and labor; old and new working class; role of labor in competitive and monopoly capitalism; technology and labor; job satisfaction and alienation under capitalism and socialism.

POL 303 American Political Theory

American political theory from its origins in English liberalism to the present day. Evaluation of the American political tradition in contrast to major political ideas of Europe and in terms of the uniqueness of the American historical inheritance and environment.

POL 310 Political Socialization

One of the continuing and central themes of political theory—how citizens are inducted into their politics. The concept of political culture is subjected to a close and critical examination, and major attention is devoted to the processes, agents and transmission belts through which political values and attitudes are formed and communicated to succeeding generations. Prerequisites: POL 110, 120 or permission of the instructor

POL 320 Politics of Poverty

An analysis of poverty in America and the administration of poverty programs. Focus is on the political implications of the various definitions of poverty and the poor.

POL 322 The American Presidency

A study of the origins and evolution of the presidency. The various roles of the president are analyzed and attention is given to the growing pains of and the resulting challenges to the modern presidency.

Prerequisite: POL 120

POL 324 Constitutional Law: The Judicial Process

Analysis and examination of U.S. Supreme Court decisions in such areas as judicial review, scope of federal power, federal-state relations, commerce, taxing and spending, regulations of economic and property interests, and other sources of legislative and executive power.

Prerequisite: POL 120

POL 326 Constitutional Law: Civil Liberties and Civil Rights

Leading decisions of the U.S. Supreme Court are analyzed and discussed with special attention given to the development of due process, the court as arbiters of intergroup relations, the rights of the defendant, the guarantees of personal security, national security and the position of the individual, First Amendment interpretations and the problems of implementing civil rights for the black community and other minority groups.

Prerequisite: POL 120

POL 332 European Political Systems

A systematic and comparative study of the political systems of Western Europe and the Soviet Union.

POL 334 Communist Political Systems

A comparative analysis of Communist political systems in theory and practice.

POL 335 Politics of the Soviet Union

Soviet political systems with an analysis of the Russian and Marxist-Leninist traditions leading to the creation of the Soviet partystate, the role of the Communist party as an instrument of power, the politics of succession, the police, the economy and the social and cultural life.

POL 337 Politics of Latin America

An examination of the nature of Latin-American politics and the reality of current political institutions and movements in this Third World area.

Prerequisite: At least one previous course in political science

POL 338 Caribbean Political Systems

A survey of political development in the varied societies of the Caribbean. Cuba, Haiti, the Dominican Republic, other former British colonies, the French and Dutch islands and Central America are covered. Colonialism, trade relations and cultural forces are also dealt with to enhance understanding of trends in the region.

POL 341 Multinational Corporations and International Labor

Analyzes the political implications—both in the host and home countries—of transnational corporations. Examines the impact on development, labor policies and income distribution.

POL 342 International Political Economy

Analyses of global issues—such as the quest for new international order, world trade dilemmas, economic relations between rich and poor states and their political implications—from a political-economical perspective,

Prerequisite: POL 240

POL 345 United States Foreign Policy

An analysis of the theoretical foundations of foreign policy and the formulation of United States foreign policy. Includes the problems of decision-making, major issues and problems of United States foreign policy in the contemporary world.

POL 354 Urban Policies and Problems

An intensive consideration of the formation and implementation of selected urban policies and programs. Field work on a specific topic is encouraged.

POL 356 Women in Comparative Politics

Investigates and compares women's concerns on an international basis.

Prerequisite: POL 210 or HSA 300

POL 402 Marx and the Marxists

The intellectual development of Marx and Engels. Earlier philosophical and historical movements (political economy, Utopian socialism, German idealism and working class movements) are given attention to place Marxism in historical perspective. Prerequisite: POL 110, or a political theory course, or permission of the instructor

POL 403 Capitalism and Socialism

Nineteenth-century origins of socialist theory are analyzed, but emphasis is on twentieth-century schools of socialist theory and practice—Marxism-Leninism, Trotskyism, Maoism, African socialism, anarcho-communism, women's liberation and the new

Prerequisite: POL 110, or a political theory course, or permission of the instructor

POL 441 International Law

Study of international law via the case method. Examines the power realities beneath international law. Also analyzes the origins, development and function of the United Nations.

Prerequisite: POL 240 or permission of the instructor

POL 455 Internship in Politics

Designed primarily for students interested in practical aspects of politics and government. Students work from 8 to 40 hours a week under the guidance of experienced public officials. Field placements are made in management areas such as personnel, legislative planning, campaigning, or public service activities. Periodic conferences and a monthly seminar round out the program.

POL 480 Seminar in Political Science

A critical analysis of literature in the field. At least one seminar is offered each semester. Topics vary according to instructors' and students' interests.

Open only to junior and senior majors in political science.

POL 490 Senior-Graduate Seminar in **Political Theory**

Analyzes the literature in political theory. Topics vary according to student interests and faculty specialty.

POL 499 Independent Study

As approved and to be arranged. 1-6 credits

Department of **Psychology**

Professors—R. Nemoff, B. Silverstein, D. Sugarman, D. Vardiman, R. White Associate Professors—S. Boone (chairperson), T. Dresner, J. Green, D. Grey, T. Haver, R. Krate, G. Leventhal, A. Montare, D.

Assistant Professors—A. McGillicuddy-Delisi, B. Pakizegi, P. Selkow, D. Trueman, S.

Students who elect psychology courses explore in depth current theories and research in psychology and seek to understand both their historical development and their relationship to other academic disciplines.

A wide range of courses is offered in each of five major areas—development, social psychology, information processing, physiological psychology and clinical psychology—which not only gives the student a broad background in the field but permits specialization in one or more particular areas of interest.

Courses prepare students to understand and use the tools of psychology, including experimental research methods. Students gain experience both in reading and critically evaluating the work of others and in pursuing their own projects. Students are encouraged to participate in facultydirected research in such widely divergent areas as perception, aggression, infancy, sex roles and biofeedback.

These experiences, as well as the opportunity to participate in independent study, field placements and seminars, provide a well-rounded program for students who wish to pursue graduate study in psychology or in related areas.

MAJOR REQUIREMENTS 38-40 credits A. Required Core

PSY	110	General Psychology	3
PSY	202-203	Experimental	. 8
		Psychology I and II	
PSY	230	History and Systems of	3
		Psychology	
PSY	480	Seminar	3

B. Track Courses

One course is selected from each of five tracks listed below. The purpose of the track course distribution is to provide breadth in the curriculum.

C. Two additional courses from any of the five tracks; or, one course plus independent study. Courses can be from a single track to provide the opportunity for depth.

DIRECTED ELECTIVES 13 credits BIO 214 Applied Anatomy and Physiology CS 270 Computer Statistical 3 Techniques I HIST 130 The Modern World 3 Introduction to **PHIL 110** 3 Philosophy

PSYCHOLOGY TRACKS—Select one course from each of the following tracks:

A. Developmental ...

PSY	210*	Developmental Psy-	3
D0\ 4	000	chology	
PSY	320	Psychology of	. 3
		Adolescence	
PSY	330	Psychology of Aging	3
PSY	340	Infancy	3
PSY	352	Psycholinguistics	3

*Prerequisite to all courses in the developmental track.

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B. Information Processing PSY 250 Psychology of Con-

sciousness Psycholinguistics Psychology of Learning Human Information Processing Operant Modification	3 3 3
of Behavior Perception Cybernetic Psychology	3
Procedularity of Control	•
Issues	3
and Industry	
Social Psychology Psychology of Women Environmental Psy- chology	3 3 3
	Psycholinguistics Psychology of Learning Human Information Processing Operant Modification of Behavior Perception Cybernetic Psychology Psychology of Social Issues Psychology in Business and Industry Social Psychology Psychology of Women Environmental Psy-

Field Methods in

Psychology of Agression

Psychology

PSY 380

PSY 381

D. Physiologi	cal	
BIPY 474	Introduction to	4
	Neuroscience	
BIPY 475.	Behavior Genetics	4
BIPY 476	Developmental	3
	Biopsychology	
BIPY 479	Biorhythms in Physiology	3
	and Behavior	
BIPY, 499	Current Topics in	3
1	Biopsychology	
PSY. 353† .	Physiological Psy-	
	chology .	3
PSY 415	Psychopharmacology	3
PSY 460 .	.Comparative Psy-	
	chology	3

†Prerequisite to all courses in the physiological track.

E. Clinical/Personality

PSY 310 PSY 322	Psychological Testing Group Dynamics.(p/f grades only)	3 3
PSY 350 PSY .351 PSY 410	Theories of Personality Abnormal Psychology Introduction to Counsel-	3 3
	ing and Psychotherapy	3

MINOR REQUIREMENTS 18 credits

PSY 110	General Psychology	3
PSY 210	Developmental Psy-	3
	chology	
PSY 220.	Social Psychology	3
PSY 230	History and Systems of	3
	Psychology	

Plus two additional psychology courses by advisement

Courses

Unless otherwise noted, all courses are for 3 credits.

PSY 110 General Psychology

An intensive investigation of the chief facts, principles and problems of human behavior with special emphasis on current research and theory. The biological foundations of behavior, sensory processes, learning perception, thinking, emotion, motivation, personality and behavior pathology are examined to establish the foundations for advanced study in psychology.

PSY 120 Psychology of Social Issues

Basic concepts, theories and research findings from the field of psychology applied to an analysis of major social problems confronting American society.

PSY 130 Psychology in Business and Industry

Applications of psychology (experimental, social, clinical, and industrial) in the areas of business and industry including human performance; organizational behavior, marketing and advertising.

PSY 202 Experimental Psychology I: Applied Statistics

An introduction to contemporary statistical procedures and computational aids appropriate to researchers in the behavioral sciences. Emphasis on "generalized" factorial research design and data analysis procedures. Laboratory sessions provide experience in the application of lecture material.

4 credits

PSY 203 Experimental Psychology II: Laboratory

A continuation of PSY 202. Acquaints students with the nature of scientific investigation with special emphasis on the use of experimental techniques in the behavioral sciences. Participation in laboratory experiments and the design and completion of an original research project are required. 4 credits

PSY 210 Developmental Psychology

The development of the individual through the life span, with special attention to early childhood. Theories of Erikson and Piaget, and their practical applications, are considered.

PSY 220 Social Psychology

Issues related to social behavior and influence, including interpersonal relationships and group processes are explored and analyzed.

PSY 230 History and Systems of Psychology

The foundations of modern psychology, starting with Descartes. Historical and philosophical understanding of the growth of psychology as a discipline and the emergence of contemporary viewpoints are surveyed.

PSY 250 Psychology of Consciousness

Examines the different forms of consciousness; the synthesis of these different streams of knowledge, and their relationship to individual, unconnected states of awareness. Covers intellectual and intuitive modes.

PSY 310 Psychological Testing

The nature and functions of psychological testing, the interpretation of tests through scores, and clinical and research hypotheses. Covers intelligence, aptitude, personality tests; particular emphasis on clinical interpretation.

PSY 311 Psychology of Women

Various psychological theories of women— Freud and the Freudians, Karen Horney, the behaviorists and the feminists—are surveyed, and various psychological research findings are evaluated.

PSY 320 Psychology of Adolescence

A consideration of the psychological effect of physical maturity on the interests and intellectual development of the adolescent. Includes a study of recreational activities, educational needs, and the social and emotional problems of the age group. Prerequisite: PSY 210

PSY 322 Group Dynamics

A study of interpersonal behavior and group processes, emphasizing the laboratory approach and the techniques of sensitivity training. Classroom experiences constitute a significant part of the course content. The student learns about himself and others by direct participation, discussion and evaluation within the student group. Prerequisite: PSY 220, pass/fail only

PSY 330 Psychology of Aging

Examines the psychology of aging including social, developmental, cognitive and biological perspectives. Also explores aging as a current social issue, with emphasis on mental health aspects.

Prerequisite: PSY 210

PSY 340 InfancyA survey of research and theory relating to psychological development during infancy.

Prerequisite: PSY 210

PSY 350 Theories of Personality

Various approaches to personality as defined by Freud, Adler, Jung, Horney, Sullivan, Allport, Rogers, Maslow and Kelly are explored.

PSY 351 Abnormal Psychology

Issues of abnormal personality and behavior, in terms of the adaptation of the individual to his social environment. Includes consideration of the dynamics of personality development and adjustment.

PSY 352 Psycholinguistics

An academic study of the major theories of speech and language acquisition, combined with direct observation of such behavior in 2-5 year olds. Approximately one half of the time is devoted to field study. Prerequisite: PSY 210

PSY 353 Physiological Psychology

Explores the interrelationships between the physiology of the nervous system and psychological functions such as perception, consciousness, motivation, emotion, reward, memory and learning. PSY 110 and BIO 214, or equivalent

PSY 354 Psychology of Learning

An examination of the research methods, empirical findings and theoretical interpretations of conditioning and learning phenomena, including historical and current trends in research and theory in this area.

PSY 360 Environmental Psychology

Focuses on man's psychological states and social behavior in relation to his physical environment, both natural and manmade. Includes spatial features of social interaction, the behavioral properties of places, and locational behavior of individuals and groups.

PSY 375 Human Information Processing

A critical examination of man's information processing capabilities and limitations. Emphasis on the theoretical principles that underlie the attention, perception and memory of events, as well as current research problems.

Prerequisite: PSY 203 recommended

PSY 380 Field Methods in Psychology

Familiarizes students with methods other than the laboratory experiment for doing field research. Includes a general overview of field surveys, field studies, and field experiments, stressing problems of internal and external validity associated with each quasi-experimental design.

Prerequisites: PSY 202 and 220

PSY 381 Psychology of Aggression

The phenomenon of human agression is studied from developmental, cognitive, learning, social and cross-cultural viewpoints.

PSY 382 Operant Modification of Behavior

The modification of human and animal behavior through the application of principles of learning is explored. Prerequisites: PSY 110 and 354 4 credits

Laboratory required

PSY 410 Introduction to Counseling and Psychotherapy

Emphasizes the various characteristics defining the helping relationship as expressed in the counseling process with adolescent and adult clients in secondary schools; college settings and mental hygiene facilities. Prerequisite: PSY 350 or 351

PSY 415 Psychopharmacology

Focuses on the major classes of drugs which alter brain and psychological functioning. Examines, in depth, and compares the effects of these drugs and the mechanisms by which they act.

Prerequisites: BIO 112-113 or BIO 163-164 or PSY 353

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PSY 420 Perception

Examines the processes by which organisms form concepts of the environment through the senses. Includes a study of the physical stimuli, the nature of the sensory organs and the neutral networks, and the effects of learning upon perception in humans.

Prerequisite: PSY 353

PSY 450 Cybernetic Psychology

The basic concepts of cybernetics—feed-back, survival, regulation, information, amplification, etc.—are developed to show how general scientific models of the control of behavior in brains, man, society and machines can be developed.

Prerequisite: PSY 353; recommended: PSY 375

PSY 460. Comparative Psychology

Introduces the student to the study of the behavior of organisms, including man, by means of the comparative method which 1) examines the diversity of behavior exhibited by life forms; 2) attempts to develop a general theory to account for many forms of behavior and their ingredients; 3) attempts to further our understanding of the complex relationship between the disciplines of biology and psychology. Prerequisites: PSY 354 and either PSY 203 or

PSY 480 Seminar in Psychology

An in-depth consideration of a specialized topic from current research literature in psychology. Topics vary each semester. Prerequisites: PSY 203, 230

PSY 485 Research Techniques in Physiological Psychology

Introduces the student to investigative techniques, including methods of preservation and histological preparations of nervous system tissue; implantation of electrodes and cannulas for electrical and chemical brain stimulation respectively; lesioning, electrical and human EEG recording, and biofeedback procedures. Prerequisites: PSY 203 and 353

PSY 499 Independent Study

As approved and to be arranged. See also courses listed under biopsychology.
1-3 credits

Department of Sociology/Anthropology and Geography

SOC 320

Professors—F. Alliston (geography coordinator), P. Chao, V. Parrillo (chairperson), J. Stimson, P. Vouras, M. Weil
Associate Professors—R. Davis, J. Fitzsimmons, E. Kedar, S.M. Rhim, P. Stein
Assistant Professors—L. Carelli, R. Glassman, C. Magarelli, R. Martorella, F. Pearson, J. Pollak
Instructor— R. Moore

Sociology/Anthropology

The sociology/anthropology major offers a joint program leading to the degree of bachelor of arts. This program is designed to acquaint students with basic concepts necessary to understand human relationships in our pluralistic society; contribute to the student's liberal education and cultural background; provide basic courses in general theory, methodology and specialized areas; supply relevant background for students preparing for fields in which a knowledge of human relations is essential.

MAJOR REQUIREMENTS 33 credits

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SOC 110 SOC 130	Principles of Sociology Introduction to An-	.3 3
SOC 254	thropology Sociological Research Methods	3
SOC 303	History of Social Theory	3
SOC 402	Modern Sociological, Theory	3
Plus 21 credits	selected from the following	
by advisemen		
SOC 120	Marriage and the Family	3
SOC 200	Human Races	3
SOC 201	Social Problems	3
SOC 205	Crime and Custom in	
	Tribal Society	3
SOC 210	Archaeology	3
SOC 250	Urban Sociology	3 3 3
SOC 251	Minority Groups in America	3
SOC 253	Elementary Soci-	3
	ological Statistics	Ŭ
SOC 254	Sociological Research Methods	3
SOC 255	Qualitative Sociological	3
3OC 200	Methods	J
SOC 256	Political Sociology	3
SOC 257	Sex and Taboo in	3
F	Primitive Societies	
SQC 260	Myth and Folklore	3
.000045	and the Modern World	
SOC 265	Human Sexuality	3
SOC 290	Introduction to Social Work	3
SOC 300	Social Welfare Policy	2
SOC 300 SOC 302 SOC 303	Biological Anthropology	3 3 3
SOC 303	History of Social Theory	3
SOC 310	Sociology of War	વ
300010	occiology of wal	J

SOC 320 SOC 321	Sociology of Labor Labor Studies in Field-	3
300321	work Problems	
SOC 322	Sociology of Organiza- tions	3
SOC 323 .	Labor Organizations and Organizing	3
SOC 324	Sociology of Religion	3
SOC 325	Sociology of Social	3
SOC 326	Movements American Religion	3
SOC 327	Collective Behavior	3 3 3
SOC 328	Sociology of the Arts	3
SOC 330 .	Sociology of Death and Grief	3
SOC 331	Evaluation of Social Action	3
SOC 332	Public Employees	, 3
SOC 333 ;	Unionism Sociology of Adulthood	3
SOC 335	Sociology of Law	3 3 3
SOC 335 SOC 341	Primitive and Modern	3
	Law .	_
SOC 342	East Asian Ethnology	3
SOC 353	Human Types: A Com-	3
	parative Study of Cul- tures	
SOC 354	Social Stratification	3
SOC 359	Cultural Change in	3 3
	Latin America	
SOC 360 SOC 361	Self and Society	3
SOC 361	Psychological An-	3
SOC 362	thropology Family in Socialist Socie-	3
SOC 363	ties Women and Religion:	ż
300303	East and West	J
SOC 365	Social Deviance	3
SOC 365 SOC 370	Social Deviance	3 3
SOC 365 SOC 370 SOC 371	Social Deviance Population and Society Forecasting Future Socie-	3 3 3
SOC 370 SOC 371	Social Deviance Population and Society Forecasting Future Socie- ties	3
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SOC 370 SOC 371 SOC 381 SOC 390	Social Deviance Population and Society Forecasting Future Societies Sociology of Socialization Medical Sociology	3
SOC 370 SOC 371 SOC 381 SOC 390 SOC 392	Social Deviance Population and Society Forecasting Future Societies Sociology of Socialization Medical Sociology Sociology of Aging	3
SOC 370 SOC 371 SOC 381 SOC 390 SOC 392 SOC 401	Social Deviance Population and Society Forecasting Future Societies Sociology of Socialization Medical Sociology Sociology of Aging Social Work with Groups	3
SOC 370 SOC 371 SOC 381 SOC 390 SOC 392	Social Deviance Population and Society Forecasting Future Societies Sociology of Socialization Medical Sociology Sociology of Aging Social Work with Groups Modern Sociological	3
SOC 370 SOC 371 SOC 381 SOC 390 SOC 392 SOC 401	Social Deviance Population and Society Forecasting Future Societies Sociology of Socialization Medical Sociology Sociology of Aging Social Work with Groups Modern Sociological Theory Social and Environmen-	3
SOC 370 SOC 371 SOC 381 SOC 390 SOC 392 SOC 401 SOC 402	Social Deviance Population and Society Forecasting Future Societies Sociology of Socialization Medical Sociology Sociology of Aging Social Work with Groups Modern Sociological Theory	3 3 3 3 3
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SOC 370 SOC 371 SOC 381 SOC 390 SOC 392 SOC 401 SOC 402 SOC 406 SOC 408 SOC 420 SOC 421 SOC 450 SOC 455 SOC 499	Social Deviance Population and Society Forecasting Future Societies Sociology of Socialization Medical Sociology Sociology of Aging Social Work with Groups Modern Sociological Theory Social and Environmental Change Indians of North America Internship in Labor Studies The Sociology of Revolution Shamans, Witches and Magic Crime and Delinquency Independent Study JIREMENTS 18 Crece Principles of Sociology Introduction to An-	3 3 3 3 3 3 3 3 1-3 1-3 1ts
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Sociology of Labor

SOC 319

Industrial Union

3

Courses

Unless otherwise noted, all courses are for 3 credits.

SOC 110 Principles of Sociology

Examines the structure and dynamics of human society and interprets social behavior within the context of modern society and culture.

This course is a prerequisite to all other sociology courses unless waived by the instructor.

SOC 120 Marriage and the Family

A sociological approach to the study of marriage and family living. The student is required to develop a critical evaluation of studies and research in the field.

SOC 130 Introduction to Anthropology

Designed to study humanity from the broadest perspective in the social sciences. Through an introduction to basic concepts in cultural/social anthropology, archaeology, physical anthropology and linguistics, students gain an appreciation of human evolutionary history, modern cultural diversity and the elements of social life all humans share.

SOC 200 Human Races

Describes races of humans in the world at large and examines physical differences found in human species. These differences are related to some extent to the physiological demands of various climates. Prerequisites: SOC 110 and 130

SOC 201 Social Problems

An examination of various social problems from a sociological perspective. The interrelatedness of social problems and the role of value-beliefs are stressed.

SOC 205 Crime and Custom in Tribal Society

A study of the traditions, customs and jurisprudence in pre-literate society which brought about social cohesion and order.

SOC 210 Archaeology

Introduces students to the scientific study of extinct societies. Research design, site survey and excavation, data recording and interpretation, artifact identification and treatment, and cultural resource management are among the topics covered. Prerequisite: SOC 130 or permission of the instructor

SOC 220 Introduction to Labor Studies

An analysis of the nature of work, the individual's relation to work, the organizations workers form to protect their interests, and the interactions among workers, their organizations and other institutions.

SOC 250 Urban Sociology

Examines the growth and development of cities, but with primary focus on the modern American metropolis: ecological patterns; urban institutions, with a particular emphasis on the problems of the inner city; the rise of suburbia; and future prospects.

SOC 251 Minority Groups in America

Examines the experiences of all racial and ethnic groups, from colonial beginnings to the present day, from a sociological perspective. Particular emphasis on the recurring patterns in dominant-minority relations; differential powers; the ethnic diversity in American society; the contributions, socioeconomic conditions and institutional variation of each group.

SOC 253 Elementary Sociological Statistics

A basic course introducing the use of quantitative methods to describe social life. No special mathematics background or aptitude required. Emphasis on learning to measure and make decisions about problems that sociologists currently face in government, business, evaluative and theoretical research.

SOC 254 Sociological Research Methods

Students learn to evaluate research reports so that their future decisions and work are based on social facts. Class discussions explore reasons why valid research is the basis of effective social action. Students also gain practice in basic data gathering techniques such as observation, interviewing and questionnaire construction. No statistics or mathematics prerequisites.

SOC 255 Qualitative Sociological Methods

Provides understanding and practice in gaining and analyzing useful information in social settings by using methods such as typologies, content analysis, participant observation and interviewing.

SOC 256 Political Sociology

Examines major works of political sociology with special emphasis on the conflicting concepts between the "liberal" ideas of such writers as Bell, Parsons and Dahl and the "new left" approach of Goodman, Mills and Marcuse.

SOC 257 Sex and Taboo in Primitive Societies

The sexual impulse and its possible manifestations in the myths and customs of savages. Views on the origins and force of culture are examined.

SOC 260 Myth and Folklore and the Modern World

Examines myths as providers of introspective patterns of moral values, social order, customs and religious beliefs. Traditional folklore (stories, riddles, songs) and modern folklore (mass media, urban cultures) are examined.

SOC 265 Human Sexuality

A biological, psychological and sociological study of human sexuality and the interaction between the biological and psychological needs of the individual. Covers curriculum and instruction for sex education in the schools.

SOC 290 Introduction to Social Work

Provides a general knowledge of the purpose, history and practice of social work. The skill bases of social work and their application to social work practice are examined.

SOC 300 Social Welfare Policy

A study of the values, knowledge and ideology underlying the development of social welfare policy and programs. Specific social welfare policies are examined, with emphasis on current policies and programs.

SOC 302 Biological Anthropology

An introduction to the biological perspective in anthropology including primate evolution, the living, non-human primates, the evolution of primate behavior, the human fossil record, and modern human variation and adaptability. The biocultural nature of humans is emphasized.

Prerequisite: SOC 130, or permission of the instructor

SOC 303 History of Social Theory

Focuses on the works of the great classical sociologists. The theories of Comte, Spencer, Durkeim, Marx, Weber, Simmel, Pareto, George Herbert Mead, and others are analyzed in light of contemporary social conditions and in terms of the development of sociological theory.

SOC 310 Sociology of War

Examines the theories surrounding the causes, nature and effects of modern warfare and its influence on shaping social structure and personality.

SOC 319 Industrial Union Organizations

The structure, organization, behavior and relationship of industrial unions in the United States. The role of industrial unions in shaping labor and social programs and policies is stressed.

SOC 320 Sociology of Labor

Examines three levels of labor activity: working class roles, labor disputes and collective action. The study of national labor movements from the founding of the IWW to the present rank and file movements of today.

SOC 321 Labor Studies in Fieldwork Problems

Designed to introduce students to current problems in labor research, labor organizing and labor law. Local resources and personnel form the backdrop for much of the study in research. Stresses current organizing and legal battles affecting the labor movement.

SOC 322 Sociology of Organizations

A theoretical course tracing development of organizational theory to the present; a practical course, considering the increasing impact of bureaucratic organizations on our lives.

SOC 323 Labor Organizations and Organizing

Examines the structural problems facing labor administrative apparatus at the state and local levels. Regional problems related to organizing tasks are discussed within the framework of current labor law and collective bargaining techniques.

SOC 324 Sociology of Religion

Examines the social dimensions of religion and the relationship between religion and society.

SOC 325 The Sociology of Social Movements

Course is divided into two parts: the first deals with social movements emerging from class conflicts (unions, unemployment unions, etc.); the second deals with cultural, national conflicts (black struggles, women's liberation, the youth movement, etc.).

SOC 326 American Religion

Analyzes the social meanings of religion in America, with particular reference to the liberal and conservative viewpoints. Explores the social significance of contemporary religious developments and movements such as the Jesus Movement, cultism and Reverend Ike's Blessing Plan.

SOC 327 Collective Behavior

An introduction to various types of collective behavior with a comparison of theoretical approaches to each type. Focuses on groups of large size, with or without face-to-face interaction. Political expressions are discussed, but the course orientation is theoretical and empirical, rather than ideological.

SOC 328 Sociology of the Arts

Designed to show the reciprocal relationship between the arts and society. Examines how various attitudes, values, norms and institutions of society are revealed in mass culture forms (e.g. television, rock music, painting, literature, theater, dance, photography and film), in an effort to help the student understand the vital place of the arts in society, as well as the impact of culture on the arts.

SOC 330 Sociology of Death and Grief

Death as an institution is studied by focusing on death and social values, cultural components of grief, and social functions of bereavement. Particular attention is paid to the social organization of death and dying in bureaucratic settings.

SOC 331 Evaluation of Social Action

The principles, techniques and applications of evaluation research are learned through the utilization of research methodology and statistics. Students develop fieldwork projects for analysis in the areas of administrative studies, education, public safety, law, health, nursing, social and behavioral sciences.

SOC 332 Public Employees Unionism

The scope and nature of public employment. The socio-economic factors which contributed to the rise of public employees unions and the unions' impact on the labor movement are examined.

SOC 333 Sociology of Adulthood

Focuses on the major issues for women and men during the early and middle years of adulthood. Included are an examination of personality development; singlehood, marriage, family and parenting roles; work, career and avocational experiences.

SOC 335 Sociology of Law

An analysis of the social basis, functions and effects of law both as a profession and as a system of social control.

SOC 341 Primitive and Modern Law

Explores the interaction between the legal norms operating in modern and primitive socieities.

Prerequisite: SOC 130

SOC 342 The Ethnology of East Asia: China and Japan

Examines the development of Chinese and Japanese culture through the study of marriage, the family, village life, economic organization, religion. Modernization, industrialization and cultural change are explored.

SOC 353 Human Types—A Comparative Study of Cultures

Designed to study persons as biological as well as social animals. Physical characteristics of races and the culture and development of primitive and modern persons are stressed.

SOC 354 Social Stratification

Treats both theory and realities with an emphasis on American society. Course concludes with an examination of power in the United States.

SOC 359 Cultural Change in Latin America

The origin and development of processes of culture change in Latin America. Gives the student an opportunity to learn about the cultural institutions of highly developed indigenous cultures and their influences upon present-day Latin American cultures. Examines current writings on Latin America which deal with social change, and helps the student develop scientific objectivity (an anthropological prerequisite) in his analysis of the social problems resulting from change. Particularly useful for international management majors.

SOC 360 Self and Society

A study of the impact of society on the formation of each individual's personality through analysis of language, definitions and values.

SOC 361 Psychological Anthropology

The interaction of culture and personality in various parts of the world. Explores specific topics which have cultural impact on the development of personality.

SOC 362 Family in Socialist Societies

An examination and comparison of the family systems of the West and of the socialist societies of Russia and China.

SOC 363 Women and Religion: East and West

Attempts to meet a growing need for a more exact idea of the role of world religions in shaping the traditional cultural images that have degraded and suppressed women. Specifically, compares women of the four major faiths of the East—Hinduism, Buddhism, Confucianism and Islam—with those of Judéo-Christian faiths of the West.

Prerequisites: SOC 110 and 324

SOC 365 Social Deviance

Examines the concept of "deviance" in society through a study of the issues of value judgments, abnormality and eccentricity. Implications are found for the causes of the behavior of groups socially labeled as deviant.

SOC 370 Population and Society

Addresses four problems: 1) dangers of world population growth for individual survival; 2) the interaction between change, social structure and population; 3) social-psychological attitudes in fertility decisions; 4) the uses of the census to describe social problems.

SOC 371 Forecasting Future Societies

Students are introduced to current and classical models of social change, visionary forecasts found in utopian and dystopian fiction, and the field of futuristics and the art of social forecasting.

SOC 381 Sociology of Socialization

An in-depth analysis of personality development and behavior modification from infancy to adulthood through various agents of socialization. The work of Aries, Freud, Mead, Erikson, Bettelheim, Goodman and Sheehy are included.

SOC 390 Medical Sociology

Analyzes social factors in relation to health and disease. Considers definitions of health, illness behavior, the formal and informal organization of health professions and institutions, and the expanding role of government in the health field. Uses both theory and current research.

SOC 392 Sociology of Aging

The demography of aging, age and its social structure; age as a social problem. Population trends are examined as they relate to health problems of the elderly. Focus on the changing role of the elderly in the kinship network.

SOC 401 Social Work With Groups

The course is designed to facilitate the student's understanding of the various theoretical underfindings of social group work practice. Students acquire a basic knowledge of group work that focuses on the application of theory to techniques.

SOC 402 Modern Sociological Theory

An analysis of contemporary social thought expressed by Talcott Parsons, Robert H. Merton, C. Wright Mills, Lewis Coser, R. Dahrendorf, Herbert Marcuse, G. H. Mead, E. Goffman, H. Blumer, Peter Blau, G. Homans, Garfinkel, and others.

SOC 406 Social and Environmental Change

Problems of environmental social change are critically examined and evaluated. Emphasis on exploring small and large scale modes of change. Develops skills in the analysis of social change. Students learn to design micro changes on the institutional level and to recognize what connections do and do not exist between micro and macro level changes.

SOC 408 Indians of North America

Demonstrates the continuum of indigenous cultures in North America, from pre-Columbian times to the present, using historical, ecological and empirical field data to study cultural processes and changes and the ways they affect interethnic and interracial interaction in the United States.

SOC 420 Internship in Labor Studies

Designed primarily for students interested in practical aspects of labor organization relations, who may be considering labor service. Students work 8-40 hours a week under the guidance of experienced labor officials. Field placements are made to enable students to participate in labor functions. Periodic conferences and a monthly seminar serve to round out the program.

SOC 421 The Sociology of Revolution

Examines revolution as a social phenomenon. Particular attention is given to contrasting the theories of revolution of the traditional Maixian urban worker-centered insurrection with Third World guerrilla warfare groups.

SOC 450 Shamans, Witches and Magic

Provides the student with insights into the meaning of witchcraft and sorcery as manifestations of the belief in the supernatural. It gives the student an opportunity to learn about the functions of witchcraft and sorcery in specific societies and the cultural roles of the shaman, witch and sorcerer.

SOC 455 Crime and Delinquency

Analyzes various aspects of crime and delinquency as forms of social deviation and the etiology of crime in a contemporary context.

SOC 499 Independent Study

As approved and to be arranged. 1-3 credits

Geography

The geography major offers a program, leading to the degree of bachelor of arts, designed to acquaint students with "Spaceship Earth." Majors who wish to teach in secondary schools should pursue courses necessary for meeting certification requirements in social studies. Students who wish to study certain specific areas of geography, and/or attend graduate school, are urged strongly by their advisors to take the appropriate minor program or programs. All majors are assigned an advisor.

	*		
MAJO	OR REG	UIREMENTS 30 cr	edits
GEO	120	Man's Physical World	3
GEO	130	Human Ecology	3
Plust	hree of	the following:	1.
GEO	230	Population and Settle-	3
020	200	ment	, 3
GEO	233	Geography of World Eco-	3
OLO	200	nomic Activity	3
GEO [°]	300 ·	Geopolitics	3
GEO	401		3
GLO	401	Cartography	ა
Plus fi	ve of the	ne following:	•
GEO	204	N.J. Wildlife at the Cross-	3 ·
		roads	
GEO	230	Population and Settle-	. 3
0.0	20,0	ment Geography	٠, ٠,
GEO	233	Geography of World Eco-	3
OLO	200	nomic Activities	3
GEO	250	The Historical Geography	3
OLO	200	of the Bible Lands	J
·GEO	300	Geopolitics :	3
GEO	330		3
GLO	330	The Geography of the	3
GEO	331	Metropolitan Area	
GEO	331	Asia's Geography and	· 3
050	220	Problems	_
GEO	332	Middle East's Geography	3
050	200	and Problems	
GEO	333	Europe's Geography and	<u>3</u>
050	004	Problems	
GEO	334	Africa's Geography and	` . 3
050	005	Problems	_
GEO	335	Latin America's Geogra-	, ,3
050		phy and Problems	
GEO	336	Soviet Union's Geography	3
		and Problems	
GEO,	337	Australia and Oceania's	3
•		Geography and Prob-	
		lems	
GEO	338	U.S.'s and Canada's Ge-	3 .
		ography and Problems	
GEO	339	New Jersey's Geography	3
		and Problems	
GEO	365	Man, Nature and Wildlife	3
GEO	404	Polar and Arctic Geogra-	3
		phy	J
GEO	405	The Geography of	[,] 3
	•	Oceans	•

GEO	410	The Historical Geography of the U.S.	3
GEO	416	Military Geography of the Twentieth Century	3
GEO GEO	480 499	Senior Seminar Independent Study	3 1-3

MINOR REQUIREMENTS 18 credits

GEO 120 Man's Physical World 3 Plus 15 credits in geography by advisement.

CERTIFICATION REQUIREMENTS 61 credits

Students interested in obtaining teacher certification in social studies must complete the following:

Academic Content Requirements 21 credits

One or	tne i	rollowing courses:		
AAAS	110	Afro-American History to		3
		1865		
aaas	111	Afro-American History		3
	,	Since 1865		
AAAS '	300	The Black Family		3
AAAS	315	Afro-American Back-	,	3
		ground for Teachers		
Plus one	e of th	ne following courses:		
ECON 2	∩1	Macrooconomic Prin		

ECON 201	Macroeconomic Prin-	
,	ciples	3
ECON 202	Microeconomic Prin-	
	·ciples	3
ECON 230	Economics of the Environ-	3
	ment	

Plus one course in each of the following areas:
Political Science 3
Sociology/Anthropology 3
European History 3

Plus two American history courses 6 **Note:** Courses listed above may be taken in partial fulfillment of general education requirements.

Teaching Certification Requirements							
40 cr							
PSY	110	General Psychology	3				
HSC	120	Current Health Issues	3				
ELED	310	Educational Psychology	3				
HSA	301 ·	Discussing Your Teaching Self .	1				
SED	340	Exploring the Teaching Field	3				
RLA -	329	Foundations of Reading	3				
RLA or	330	Reading Strategies	3				
SED	383 ·	Teaching Reading	3				
		Grades 5-12					
SED	301	Curriculum and Its Im-	3				
		plementation .					
SED	331	Implementing Your	3				

Teaching Major: Social
Studies

EDUC 403 Culminating Field Experience
SED 404 Instructional Seminar for Student Teaching
Plus two education electives 6

Note: In planning certification requirements, students should seek advisement from the School of Education and Community Service.

Courses

Unless otherwise noted, all courses are for 3 credits.

GEO 110 Cultural Geography

An application of the concept of earth as the home of man. Special emphasis on the geographical analysis of human environment as a result of the intricate variety of cultural-world/physical-world interactions.

GEO 120 Man's Physical World

Designed to elucidate the patterns of the physical earth and man's environment. Central focus on the functional interrelationships of geography, land forms, climate, soil, vegetation and water.

GEO 130 Human Ecology

Concerned with the conservation of natural resources and man's role in altering the face of the earth.

GEO 150 World Regional Geography

A survey of the whole earth by continent and natural regions; basic physical, cultural, socioeconomic and political factors are considered.

GEO 204 New Jersey Wildlife at the Crossroads

A study designed to introduce the student to the complexities of wildlife management in the heart of the urbanized Northeast U.S. A variety of field trips are taken to help the student experience manland-animal relationships.

GEO 230 Population and Settlement Geography

A geographical interpretation of the world's population distribution, numbers and dynamics through time. Special emphasis on the distribution of man's habitation forms and patterns, including the functioning of urban areas.

GEO 233 Geography of World Economic Activity

Examines man's economic activities on a global scale. Contributions of cultural and physical environmental factors to these activities are analyzed.

GEO 250 The Historical Geography of the Bible Lands

An analysis of the geography of the ancient Near East and other ancient Near Eastern areas.

GEO 300 Geopolitics

The influence of such factors as location, size, form, surface, climate, natural resources and population on the political development of nations and their roles in world politics.

GEO 330 The Geography of the Metropolitan Area

A study of the four basic elements of the greater New York area: physical setting and geographical location, historical development, activities and cultural functions.

GEO 331-380 Geographical Area Studies

Each of these geographical area studies deals with the geographical analysis of the region's physical features, natural resources, cultural patterns, problems, and economic 'potentials, together with its place in the world.

GEO 331 Asia's Geography and Problems

GEO 332 Middle East's Geography and Problems

GEO 333 Europe's Geography and Problems

GEO 334 Africa's Geography and Problems

GEO 335 Latin America's Geography and Problems

GEO 336 The Soviet Union's Geography and Problems

GEO 337 Australia and Oceania's Geography and Problems

GEO 338 United States and Canada's Geography and Problems

GEO 339 New Jersey's Geography and Problems

GEO 365 Man, Nature and Wildlife

Aspects of biography and zoogeography, designed to introduce basic ecological and geographic concepts concerning management practices.

GEO 401 Cartography

A basic course in map making. Covers projections, thematic, relief and statistical cartography.

GEO 404 Polar and Alpine Geography

Analyzes interrelationships among the parameters of location, size, range of physical and cultural features and the ultimate impact of modern technology on these fragile ecosystems.

GEO 405 The Geography of Oceans

A synthesis of the techniques and competencies of physical, cultural, economic and political geography as they apply to the oceans of the world. How human life and activity are affected by oceanic geography is explored.

GEO 410 The Historical Geography of the United States

Past landscapes in the various culture-regions of the U.S. Physical habitat and social patterns are studied in their continuous interaction through time. Special attention is given to the concept of "regional character."

GEO 416 The Military Geography of the Twentieth Century

A study of the major conflicts of this century utilizing concepts and methodologies of physical, political, economic and social geography. In essence, an in-depth investigation of historical geography.

GEO 480 Senior Seminar

A description of the aims, methods, deeds and rewards of geography as a discipline. Considers programs and positions in geography.

GEO 499 Independent Study

As approved and to be arranged. 1-3 credits

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Accreditation

American Speech-Language-Hearing
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New Jersey College and University Public Safety Association

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Professional Staff

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ANGELA M. AGUIRRE, Assistant Professor, Languages and Cultures. B.A., M. Phil., CUNY; M.A., Queens College; Ph.D., CUNY. Appointed September 1980.

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LAURA AITKEN, Associate Professor, Community, Early Childhood and Language Arts. B.A., Colby College; M.A., Wellesley College; M.S., New York University; Ph.D., Fordham University. Appointed September 1970.

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NEIL C. BASSANO, Assistant Professor, Accounting and Law. B.S., M.B.A., Fairleigh Dickinson University. Appointed September 1979.

SVEA BECKER, Assistant Professor, Movement Sciences and Leisure Studies. B.S., Fairleigh Dickinson University; M.A., Teachers College, Columbia University; teaching certificate in labanotation, Dance Notation Bureau. Appointed September 1968.

EDWARD BELL, Professor, Community, Early Childhood and Language Arts. B.S., Ohio State University; M.A., New York University; Ed.D., Fordham University. Appointed September 1974.

DAVID BELLIN, Instructor, Business and Economics. M.S., Polytechnic Institute of New York. Appointed September 1982.

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SIDNEY F. BERMAN, Associate Professor, Communication. B.A., M.A., Brooklyn College CUNY. Appointed September 1961.

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- **GEORGE BOUCHARD,** Assistant Professor, Music B.A., SUNY Buffalo; M.M., Memphis State University Appointed September 1980.
- JOSEPH BRANDES, Professor, History B.S., City College of New York; M.A., Columbia University; Ph.D., New York University. Appointed September 1958.
- JAMES ANDREW BROWN, Instructor, Art. B.F.A., Calvin College; M.F.A., Western Michigan University. Appointed September 1982.
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- ROBERT F. CALLAHAN, Professor, Biology. B.S., Iona College; M.S., Ph.D., Fordham University. Appointed February 1966.
- JOSEPH CANINO, Professor, Elementary Education. B.S., M.A., New York University; Professional Diploma, Ed.D., Teachers College, Columbia University. Appointed September 1967.
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- PAUL K. CHAO, Professor, Sociology/Anthropology and Geography.
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- SANKEY C. CHAO, Professor, Administrative, Adult and Secondary Programs. B.Ed., Huachung University; M.A., Ed.D., Teachers College, Columbia University. Appointed September 1964.
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 B.A., Conception College; M.S.W., Hunter
 College CUNY. Appointed September
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- OCTAVIO DE LA SUARÉE, Associate Professor, Languages and Cultures. B.A., University of Miami; M.A., Ph.D., City College of New York. Appointed September 1973.
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- MILDRED I. DOUGHERTY, Assistant Professor, Elementary Education. B.Ed., University of Alberta; M.A., The William Paterson College of New Jersey; Ed.D., Rutgers University. Appointed September 1968.
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- WILLIAM DUFFY, Librarian 2. A.B., M.A., Seton Hall University; M.L.S., Rutgers University. Appointed March 1980.
- LINDA J. DYE, Associate Professor, Movement Sciences and Leisure Studies. B.S., Bowling Green State University; M.S., Springfield College. Appointed September 1967.
- ANA N. EAPEN, Professor, Business and Economics. B.S., University of the Phillipines; M.A., Ph.D., University of Michigan. Appointed September 1973.
- **ARTHUR EASON**, Director, Athletics. B.A., Montclair State College; M.A., The William Paterson College of New Jersey. Appointed September 1970.
- BEATRICE E. EASTMAN, Assistant Professor, Mathematics. B.A., Vassar College; M.A., New York University; M.A., Hunter College CUNY; Ph.D., Fordham University. Appointed September 1977.
- MELVIN A. EDELSTEIN, Professor, History. B.A., University of Chicago; M.A., Ph.D., Princeton University. Appointed September 1973.
- **DON ALDEN EDWARDS,** Associate Professor, English. B.A., Carroll College; M.S., University of Wisconsin. Appointed September 1956.
- ANNE EINREINHOFER, Gallery Director. B.A., M.A., The William Paterson College of New Jersey. Appointed September 1980.
- **SEYMOUR B. ELK,** Assistant Professor, Administrative and Computer Sciences, B.S., Yale University, M.S., Purdue University. Appointed September 1983.
- WILLIAM E. ENGELS, Associate Professor, Elementary Education. B.S., Columbia University; M.A., Teachers College, Columbia University. Appointed September 1963.
- MARIA ENTZMINGER, Assistant Director of Admissions. B.A., Ramapo College of New Jersey. Appointed October 1980.

- **DAVID ERICKSON,** Professor, Business and Economics. B.S., M.B.A., Ph.D., Florida State University. Appointed September 1981.
- MARK EVANGELISTA, Registrar. B.A., M.Ed., The William Paterson College of New Jersey. Appointed September 1970.
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- TIMOTHY W. FANNING, Associate Vice-President for Administration. B.A., M.A., Montclair State College. Appointed August 1971.
- CHARLES FARAWELL, Director, Business Services. B.S., St. Peter's College. Appointed April 1961.
- JOAN T. FEELEY, Professor, Community, Early Childhood and Language Arts. B.A., College Misericordia; M.S., Hunter College CUNY; Ph.D., New York University. Appointed September 1971.
- BRUCE FERGUSON, Associate Director, Educational Opportunity Program. B.S., SUNY Brockport, M.S., SUNY Albany. Appointed July 1978.
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- WILLIAM FITZGERALD, Bookstore Manager, Student Center. B.A., Providence College. Appointed August 1975.
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- JAMES W. HOBAN, Associate Professor, English. B.S., M.A., J.D., Northwestern University. Appointed September 1965.
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- CHING YEH HU, Professor, Biology. B.S., Taiwan Agriculture College; M.S., Ph.D., West Virginia University. Appointed September 1969.
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- JOHN J. HUBER, Director, Student Teaching. Assistant Professor, Elementary Education. B.A., Montclair State College; M.A., Seton Hall University. Appointed December 1961.
- PATRICIA A. HUBER, Assistant Professor, Movement Sciences and Leisure Studies. B.S., M.Ed., North Texas State University. Appointed September 1968.

- ANN HUDIS, Associate Professor; Health Science. B.S., Sarah Lawrence College; M.P.H., Columbia University School of Public Health; M.Ed., Ed.D., Teachers College, Columbia University. Appointed January 1977.
- **LENORE B. HUMMEL,** Professor, Elementary Education. B.S., Queens College; M.A., Ed.D., Teachers College, Columbia University. Appointed September 1960.
- JANE HUTCHISON, Librarian 3. B.A., North Carolina State University; M.L.S., University of North Carolina. Appointed December 1082
- GARY L. HUTTON, Director, Housing Services. B.S., The William Paterson College of New Jersey. Appointed August 1974.
- SEYMOUR C. HYMAN, President. Professor, Chemistry, Physics and Environmental Science. B.Ch.E., City College CUNY; M.S., Virginia Polytechnic Institute; Ph.D., Columbia University. Appointed March 1977.
- STELLA E. HYMAN, Assistant Professor, Mathematics. B.S., Syracuse University; M.S., New York University. Appointed September 1968.
- ALLEN ISAACSON, Associate Professor, Biology, B.S., City, College CUNY; M.A., Harvard University; Ph.D., New York University: Appointed September 1969.
- RICHARD J. JÄARSMA, Professor, English. A.B., Hope College; M.A., Ph.D., Rutgers University. Appointed September 1969.
- **BETSY JABLE,** Assistant Registrar 1. B.S., SUNY Geneseo. Appointed July 1973.
- J: THOMAS JABLE, Professor, Movement Sciences and Leisure Studies. B.S., University of Dayton; M.A., M.Ed., Ph.D., Pennsylvania State University. Appointed December 1975.
- **HERBERT G. JACKSON,** Assistant Professor, Communication. B.A., Tufts University. Appointed September 1973.
- MAHENDRA JANI, Assistant Professor, Mathematics. B.S., Gujarat University; M.S., Ph.D., City University of New York. Appointed September 1980.
- AMY G. JOB, Librarian 1. B.A., M.A., Montclair State College; M.L.S., Rutgers University. Appointed September 1968.
- **KENNETH A. JOB,** Professor, Elementary Education. B.S., Jersey City State College, M.A., Ed.D., New York University. Appointed September 1960—62. Appointed September 1964.
- LESLIE A. JONES, Assistant Professor, African and Afro-American Studies. B.A., M.A., St. John's University. Appointed September 1970.
- JOHN S. JORDAN, Associate Professor, English. B.A., University of California at Los Angeles; Diploma in Education, University of East Africa; M.Ed., Ph.D., Teachers College, Columbia University. Appointed September 1974.
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- CHARLES JURY, Director, Information Management Systems. B.S., Fairleigh Dickinson University. Appointed January 1971.

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- MEYER KAPLAN, Professor, Mathematics. B.A., Hunter College CUNY; M.A., Adelphi College; Ph.D., Stevens Institute of Technology. Appointed September 1969.
- ervin KEDAR, Professor, Sociology/Anthropology and Geography. B.A., M.A., Ph.D., Hebrew University of Jerusalem. Appointed September 1972.
- KI HEE KIM, Professor, Business and Economics. B.A., Dan Kook University; M.A., Ph.D., University of Texas. Appointed September 1980.
- KI HO KIM, Assistant Professor, Business and Economics. B.A., Dong-A University, Pusan, Korea; M.A., Seoul, Korea; M.B.A., Iona College; Ph.D., Rutgers University. Appointed September 1982.
- **SHARON KINDER,** Director, Special Events, Student Center. B.S., Montclair State College. Appointed September 1980.
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- SUZANNE F. KISTLER, Associate Professor, English. B.A., Swarthmore College; M.A., C.W., Post College; Ph.D., SUNY Stony Brook. Appointed September 1973.
- CLAUDIA KLEE, Librarian 2. B.A., M.L.S., University of Michigan. Appointed August
- RUTH A. KLEIN, Professor, Special Education and Pupil Personnel Services. B.S., Jersey City State College; M.A., New York University; Ed.D., Rutgers University. Appointed March 1955.
- ROBERT J. KLOSS, Professor, English. B.S., Pennsylvania State University; M.A., Ph.D., Columbia University. Appointed September 1969.
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- MARTIN KRIVIN, Professor, Music. B.S., State Teachers College, Indiana, Pennsylvania; M.A., New York University; Ph.D., State University of Iowa. Appointed September 1960.
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- **KENNETH M. ZURICH**, Assistant Director, Career Counseling and Placement. B.A., M.A., Montclair State College. Appointed November 1972.

HOW TO REACH WPC

From New York City via the George Washington Bridge, and from eastern New Jersey:

Take Route 80 West (either express or local) to exit marked Union Boulevard—Totowa. Turn right on Union Boulevard (later becomes Union Avenue). *Proceed approximately three miles to the end. Turn left on West Broadway and continue to the second traffic light. (You will be facing a large florist shop.) Make a half right turn up the hill on Central Avenue and continue approximately one mile to the first traffic light. Turn right on Pompton Road and proceed about 200 yards. College entries four through one are on the left along Pompton Road.

From New York City via the Lincoln Tunnel, and from eastern New Jersey:

Take Route 3 West to Route 46 West. Take Route 46 West approximately three miles to Union Boulevard—Totowa. Turn right on Union Boulevard. Follow directions from * in "Number 1" above.

3. From southern and central New Jersey via the Garden State Parkway:

Take the Garden State Parkway North to

exit 153B (on left), marked Route 3 and 46, West Paterson. Take Route 3 to Route 46 West. Take Route 46 West approximately three miles to Union Boulevard—Totowa: Turn right on Union Boulevard. Follow directions from * in "Number 1" above.

4. From western New Jersey:

Take Route 46 East (or Route 80 East to Route 46 East at "Clifton" exit) to Union Boulevard—Totowa exit. Proceed to cross over Route 46 and continue on Union Boulevard following directions from * in "Number 1" above.

5. From northern New Jersey:

Take Route 23 South to Ratzer Road Circle, Wayne. (Gaspar's is on left; Camelot Banquet Hall is an right.) Proceed around circle, making first right turn (before Howard Johnson's) on Ratzer Road. Proceed approximately four miles (road bends slightly left, then right at blinker at intersection of Ratzer and Alps Roads) to traffic light at intersection of Ratzer Road and Hamburg Turnpike. Brother Bruno's is on far right corner. After crossing intersection, Ratzer Road becomes Pompton Road. Proceed about

200 yards. College entries four through one are on left along Pompton Road. **or:**

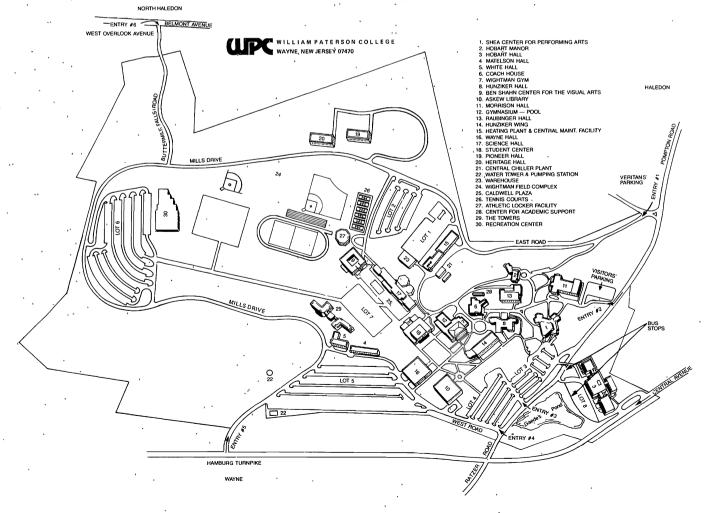
Take Route 208 South to exit marked Colonia Road—High Mountain Road—Franklin Lakes. Proceed on exit ramp to stop sign. Turn left on High Mountain Road. Continue approximately three and one-half miles to fork. Take right fork on Belmont Avenue about two miles to traffic light (Dunkin' Donuts on left.) Turn right on Pompton Road. Proceed up hill approximately one-half mile. College entries one through four are on right along Pompton Road.

From northern New Jersey via the Garden State Parkway:

Take the Garden State Parkway South to exit 159, Route 80 West. Follow directions in "Number 1" above.

Public Transportation

Public transportation to the College is available from the surrounding areas. Transport of New Jersey P54 runs directly to the College. Further information regarding public transportation can be obtained from New Jersey Transit (800) 772-2222.



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