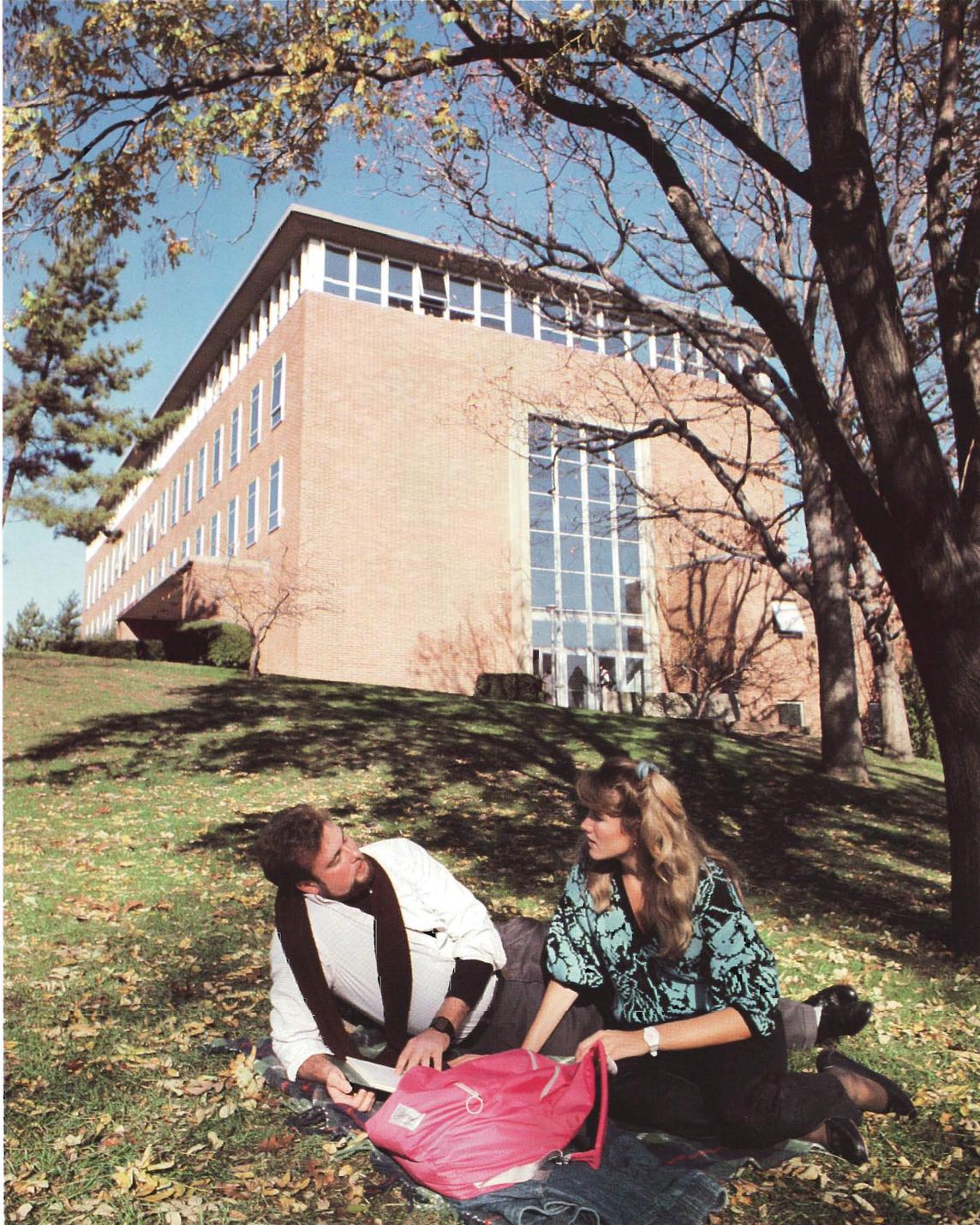


William Paterson College

UNDERGRADUATE CATALOG 1986-87



William Paterson 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.

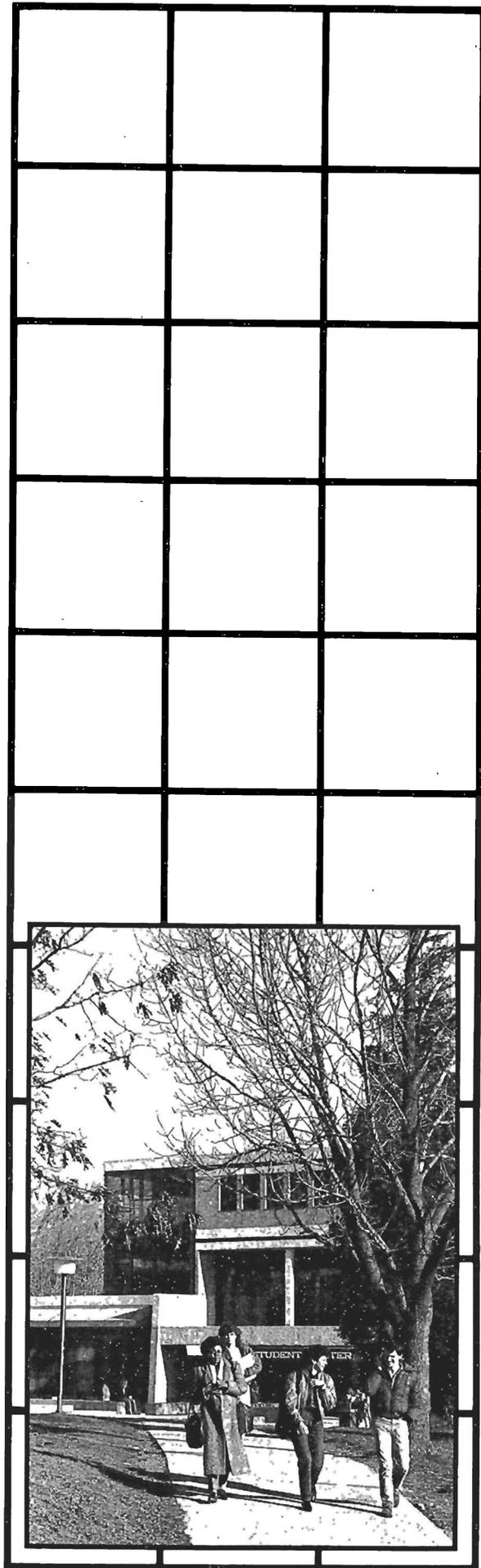
For additional information, catalogs and applications, write or call:

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

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UNDERGRADUATE CATALOG 1986-87 WILLIAM PATERSON COLLEGE

	Page
General Information	4
The School of the Arts and Communication.....	20
The School of Education and Community Service	38
The School of Health Professions and Nursing.....	54
The School of Humanities.....	60
The School of Management	82
The School of Science.....	93
The School of Social Science	107
Directories	116
Index	128



GENERAL INFORMATION

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 nine colleges 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 34 undergraduate and 13 graduate degree programs are offered in the College's seven schools: 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 Buildings

The major facilities 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 during the fall and spring semesters and when school is open during the summer months. Specific hours are posted. 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 audio-visual previewing facilities.

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, a statewide computer network supporting multi-language, 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 Communication Disorders 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 Theatre Department, including its offices, scenic design and costume shops, Hunziker Theater and the theatre box office are located here, as are the Office of Field Laboratory Experiences 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 Students, 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 Career Services Office, the Athletic Office, the Bilingual Education program, the Women's Center and the Campus Police.

Morrison Hall. Includes the office of the president of the College and other central administration offices: Academic Affairs, Administration and Finance, Affirmative Action, the Business Office and Personnel.

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: Curriculum and Instruction, Educational Leadership, and Special Education and Pupil Personnel Services. The offices of the Vice President for Student Services, the Registrar and the Academic Information Center are located here as are the following: Counseling Services, Admissions, Financial Aid, Veterans' Affairs and the Academic Information Center.

Rec Center. Designed to serve as the focal point for physical recreation activities, the Rec 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, 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 offices of the dean of the School of the Arts and Communication and the Art Department.

Shea Center for Performing Arts. Features a 900-seat theatre, 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 are located here.

White Hall. Contains offices for the dean of the School of Management and the school's component units: accounting and law, computer science and quantitative analysis, economics and finance and marketing and management sciences. The Student Health Center is located here as are the Alumni Association and the Office of College Relations.

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 located here. The Department of Movement Science and Leisure Studies is housed 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 six 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 re-entering the College; 5) those seeking a second undergraduate degree; 6) those entering as continuing education students.

Application Procedure Students seeking undergraduate admission, whether full time or part time, must submit a completed application form, which may be obtained from the Office of Admissions, William Paterson College, Wayne, New Jersey 07470. The completed application must be accompanied by a \$10 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 admission 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 the 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.

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 two 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, character reference and a written essay. 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 an academic merit scholarship application.

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

1. File an application for admission and all other required materials not later than May 1 for fall admission or November 1 for spring admission.
2. Have official transcripts of all courses taken at schools previously attended forwarded to the Office 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.
2. No more than 90 credits may be transferred from a four-year college.
3. The last 30 credits required for graduation must be earned at WPC; 24 of these must be earned on the main campus.
4. No more than 15 transfer credits required for a major will be accepted.

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 credits at WPC.

Early Admission The William Paterson College Early Admission 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.

High School Students 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 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 or the Center for Continuing Education. Acceptance is based on SAT (1000)/PSAT (100) scores, rank in class (top ten percent), a letter of recommendation from a guidance counselor or principal. Successful applicants may also enroll for courses during the College's summer sessions. Students enrolling in this program cannot take any math or English courses unless they have taken the New Jersey Basic Skills examination.

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 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.

ment 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.

Fees and Financial Aid

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.

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)	\$37.00
Out-of-State Student	
(per credit)	57.00
General Service Fee	
(per credit)	1.50
Student Activity Fee	
(per credit)	1.50
Student Athletic Fee	
(per credit)	1.20
Student Center Fee	
(per credit)	5.00
Orientation Fee	25.00
Each incoming, full time freshman, who enrolls in September, must pay the orientation fee.	
Late Fee	
(non-refundable)	15.00
Bad Check Fee	
(non-refundable)	15.00
Added Course Fee	
(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:

Withdrawal before the end 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.

Orientation Fee Each new full time freshman who is entering the College in the fall semester is required to pay a \$25 orientation fee.

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 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 \$15.00 for the school year. The motorcycle fee is \$1.00. The fee is non-refundable. 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. The fee is non-refundable.

Room and Board The current charge for residing on campus is \$987.50 per semester (\$1975 per year). Students residing in the Towers are required to purchase a food plan. Students living in the apartments, Pioneer and Heritage Halls, are eligible to participate in the food plan but not required to do so. Room and board rates are subject to change.

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, CN 6313, 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 determine 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	\$1297*
Books and Supplies	300
Other (Recreation, Personal, Transportation)	3100
Total	4697

Resident Expenses:

Tuition and Fees	\$1297*
Books and Supplies	300
Room and Board	3200
Other (Recreation, Personal, Transportation)	1300
Total	6097

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

Eligibility

- To receive aid, a student must:
- Be a citizen of the United States, or a permanent resident.
 - Be accepted as a full-time/half-time matriculated student of WPC.
 - Be in need of financial assistance.
 - Plan to continue academic study for a bachelor's degree at the institution.
 - Maintain the required grade point average.
 - Not be in default on a National Direct Student Loan, Guaranteed Student Loan or a PLUS loan.
 - 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 \$250 to \$1900.

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 U.S. Department of Education requires all applicants to answer "yes" to question 45 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. SEOGs 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 12.

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 \$1088. To be eligible for a Tuition Aid 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.

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 a student's financial need, taking into account family contributions 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 \$700.

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. Students with a family adjusted gross income of more than \$30,000 must submit to a needs analysis test to qualify.

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. (A first time borrower pays an interest rate of eight percent.)

PLUS Parents may borrow up to \$3,000 per year for an approval school. There is no interest subsidy and repayment at 12 percent simple interest begins within 60 days of disbursement. Graduate students may borrow \$3,000 per year in addition to GSL, while independent undergraduate students may borrow a maximum of \$2,500 per year between GSL and PLUS combined.

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 Merit 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.
2. To know the deadlines for submitting applications for each of the financial aid programs.
3. 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.
5. To know what resources (such as parental contribution, other financial aid, student's assets, etc.) were considered in the calculation of their needs.
6. 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 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:

1. To complete all application forms accurately and submit them on time to the right place.
2. 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.
3. 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.

4. 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.
7. To be aware of and comply with deadlines for application or reapplication for aid.
8. To be aware of the school's refund procedures.
9. 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 or her 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 financial 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. NJFAFs 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 parents' 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 the student and the 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 the 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 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 or her 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 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.

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 contacting 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 handicap.

Government

Students are expected to participate in college decision-making. All 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 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.

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.

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 committees, each sponsoring activities in its particular area: cinema, concerts, creative arts, entertainment, lectures and public relations.

Active Chartered Clubs

Accounting Society
 Apartment Association
 Arabian Student Cultural Club
 Asylum Magazine
 Black Student Association
 Bowling Club
 Business Student Association
 Catholic Campus Ministry Club
 Chess Club
 Chinese Club
 Christian Fellowship Club
 Circassian-Turkish Club
 Computer Society
 Creative Source Dance Ensemble
 Early Childhood Organization
 Equestrian Team
 Essence Magazine
 French Club
 Galen Society
 German Club
 Gospel Choir
 Health Services Organization
 Ice Hockey Club
 International Student Association
 Irish Club
 Italian Cultural Club
 Jewish Student Association
 Music Students Association
 Natural Science Club
 Nursing Club
 Once Again Student in School
 Organization for Latin-American Students
 Organization for Social Action
 Pioneer Players
 Psychology Club
 Public Administration Club
 Ski Club
 Ski Racing Team
 Special Education Club
 Speech Pathology Club
 Student Accounting Club
 Student Art Association
 Student Mobilization Committee
 Students for Environmental Action
 Ultimate Frisbee Club
 Windsurfing Club

Honor Societies

The College sponsors a number of honor societies in various disciplines. They are:

Omicron Delta Epsilon: economics
 Phi Alpha Theta (The Alpha Chapter): history
 Kappa Delta Phi (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 twelve 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 registration, 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 11:00 a.m. to 11:00 p.m. Monday through Friday.

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 Center—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 Women's Center is located in Matelson 262.

Activities, functions and services include a student sexual health clinic, consciousness-raising groups, peer and career counseling, academic advisement, women's studies courses, lectures and poetry readings.

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 dean of students.

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 light-equipped 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, Jersey 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.

Rec Center Designed to serve as the focal point for physical recreation activities, the Rec Center contains indoor courts for basketball, tennis, racquetball, volleyball and badminton. 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.

Academic and Institutional Support Services

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 Academic Information Center.

Academic Information Center The Counseling Services Office operates the Academic 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 William Paterson College. The following procedures must be followed in order to obtain a change of major:

1. The student completes the first section (official copy) of the declaration/change of major(s) application in the Advisement Office.
2. The student takes the first section (official copy) to the chairperson for an interview and signature.
3. The student returns the signed first section (official copy) to the Advisement Office before the deadline stipulated on the form.

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

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.

Counseling Services The Office of Counseling 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.

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.

Institutional Support Services

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 the alumni newspaper; coordinates alumni events such as Homecoming and spring reunions; sponsors the Athletic Hall of Fame, Distinguished Alumni Awards, and the Student Awards Assembly; awards dozens of scholarships each year; 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 attend student events, have access to the Student Center, 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.

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 Services The Office of Career Services provides a comprehensive career development program designed to assist students and alumni in making appropriate career choices and in developing plans to achieve their goals. To maximize potential and marketability, students are encouraged to take advantage of services early in their college careers.

PERSONALIZED CAREER GUIDANCE—Professional counselors are available during day and evening hours for individual appointments. Decision making, career pathing, critiquing of resumes, preparing students for interviews and discussions about the job market are just a few areas that staff members are equipped to handle.

TESTING—A complete battery of vocational tests is administered and interpreted by counselors.

WORKSHOPS—Each semester an extensive job readiness and career planning workshop series is offered which includes sessions covering the following topics: career decisions for the undecided, exploring careers in your major, pre-law seminar, resume writing, interview techniques, job search strategies, careers in federal and state government and the versatility of a teaching degree.

CREDENTIAL SERVICES—Provides seniors and alumni an opportunity to maintain a reference file. The office will forward credentials to prospective employers and graduate schools at the student's or employer's request.

RECRUITING—On-campus interviews are available for seniors with employers from government, education and industry in the spring of each year.

CAREER COLUMN—A bi-weekly column appears in the college newspaper and describes Career Services' activities, services and career information.

CAREER CONFERENCES, GRADUATE SCHOOLS AND JOB FAIRS—Conferences are scheduled periodically for students to meet and discuss career-related information and opportunities with employers and graduate school representatives.

JOB LOCATION AND DEVELOPMENT PROGRAM (JLD)—A counselor will assist students in securing part-time, summer and temporary off-campus employment. Primary emphasis is on development of career-related positions and paid internships.

CAREER LIBRARY—An up-to-date resource center with information about career books and literature, job hunting directories, full-time, part-time and summer job listings, company literature, local, state and federal job opportunities, graduate school information and catalogs and salary surveys.

AUDIO VISUAL EQUIPMENT—Instructional video-cassettes are available for student use.

COMPUTER TECHNOLOGY—An easy-to-use computerized guidance system is available to aid students in the career decision-making process. A computerized job matching system is currently being developed.

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 one-half 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 during the summer months, or (201) 595-2491.

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

Health Services/Insurance The Health Office in White Hall, open from 7:00 a.m. to 11:00 p.m., 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.

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 a 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 readjustment, 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.

Residential Facilities

Residential life at WPC is based on the belief that on-campus living provides a unique opportunity for students to gain a variety of personal learning experiences which supplement and complement the formal learning which occurs in the classroom. The goal of the program is to develop an environment that supports students' academic endeavors and promotes individual development. It is expected that students will contribute positively to the on-campus community as involvement is paramount to personal fulfillment and growth. The program seeks to make the residence halls a place where students can:

- Meet other students and live successfully with others.
- Assume responsibility for their own lives and the living environment.
- Participate in a variety of educational, social and cultural activities.
- Develop leadership skills through participation in residence hall government, social and judicial organizations.

The College provides two types of housing for students, the Towers and Pioneer and Heritage Halls.

Towers The Towers is a large, modern facility designed to accommodate 1,000 undergraduates. Two double occupancy rooms are connected by a bath and together constitute a suite housing four persons. A limited number of single occupancy rooms are also available. Each room is furnished to include beds, desks, chairs, wardrobes and drawer space. Students are responsible for their own linens and personal effects.

Located within the pavilion which connects the Towers is a spacious lounge and recreation area. Individual floors also have lounge and study space. Laundry, television and vending facilities are also located in the building.

Pioneer and Heritage Halls Pioneer and Heritage halls offer apartment-style living for upperclassmen (juniors, seniors, and graduate students). Each apartment is designed to accommodate four students. Each apartment contains two bedrooms, a full bath, kitchen, and living/dining area. The apartments are furnished with closets, desks, beds, chairs, a dinette set, sofa and occasional furniture. Students are responsible for their own cooking utensils, linens and personal effects. Study and recreation lounges, laundry and vending facilities are also available.

Residence Life Staff Each of the residence hall areas is administered by a live-in resident director who is a full-time member of the Student Services staff. The "R.D." is responsible for the overall operation of the hall, supervises the resident assistant staff and coordinates the educational, cultural, social and recreational programs and student advisement.

The resident assistant is a fellow student who has received extensive training to work with students. The "R.A." is one of the first people to greet students when they arrive on campus. An upperclassman selected for his/her special personal qualities and dedication to serve fellow students, an R.A. lives on each floor and seeks to enhance the community spirit essential to the residence halls. He/she is knowledgeable about the College and its resources and is trained in counseling and advisement skills.

Dining Services Students living in the Towers are required to be on the meal plan each semester. Apartment residents may either use the cooking facilities in their apartment or choose a meal plan arrangement. Major college dining facilities are the Wayne Hall Cafeteria and the Student Center Restaurant. Billy Pat's Pub is the focal point for campus entertainment and gatherings. Food is also available in the Snack Bar and the Sweet Shoppe.

Activities and Programs The Residence Life staff together with students themselves plan dances, outings, dinners, lectures, study workshops, movie nights and a host of other events that take place on weekdays and weekends. Resident students traditionally are enthusiastic participants in these programs. Outdoor tennis courts, football, baseball and softball fields in addition to a fully equipped recreation center are a short walk from the residence halls. Wightman Gym houses a heated olympic-sized swimming pool and a basketball court. For jogging enthusiasts a quarter-mile track rims a section of the campus.

The Office of Student Activities also works closely with the Residence Life staff in coordinating programs and events. In short, students can always find some extracurricular activity in which to get involved. Religious services for all denominations are conducted through the William Paterson Christian Fellowship. The Catholic Campus Center serves many residents and invites students to use the Center. The Jewish Student Association also encourages participation by resident students. Many churches and synagogues are conveniently situated near the campus. Rides are available by directly contacting the church or synagogue.

Health Insurance and Medical Services All residents are required to provide proof of health insurance. This can be done by submitting proof that a student is still covered under his/her parents' health plan or by purchasing the student health insurance available through the College. Proof of insurance must be provided before students are permitted to move into the residence halls.

The College also provides free medical services through the Student Health Center conveniently located next to the Towers complex and supervised by a medical director, part-time physician and full-time nurses.

Financial Matters Room rates are quoted on a per person academic year basis. The residence agreement is signed for the full academic year. Students are billed on a semester basis. The semester's room payment is due in full before a student is allowed to move into the residence hall. In addition, proof of payment for the meal plan is required of all Towers' residents.

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 Residence Life Office and is available on request. Arrangements regarding rent and regulations are negotiated directly with the landlord.

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- Excellent
- B, B+, B- Good
- C, C+, C- Satisfactory
- D, D+ Unsatisfactory
- F Failing
- P Passing
(Satisfactory)
- Inc. Incomplete
- WD Withdrawn Officially
- M No grade
- N Submitted
Unacceptable (must repeat)
- AU Audit

Grade Point Values

A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C-	1.7
D+	1.3
D	1.0
F	0

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/her intention after the registration period is complete. Nor may the student who has registered for a course be permitted to change his/her 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 the 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 the 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 take 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.

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; A- = 3.7; B+ = 3.3; B = 3.0; B- = 2.7; C+ = 2.3; C = 2.0; C- = 1.7; D+ = 1.3; D = 1.0; F = 0.

Example:

	Credits Attempted	Credits Earned	Grade	Grade Points
Organic Biochemistry	4	4	A	16
Creative Writing	3	3	A	12
Origin of Cities	3	3	C	6
Abnormal Psychology	3	3	B	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.

For graduation, the minimum grade point average requirements are 2.0 cumulative and 2.0 in the major field.

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 cocur-

ricular or extracurricular activities is determined by the sponsor of such activities, following appropriate approval procedures.

Withdrawal from the College Withdrawal from the College can be initiated at any time prior to the last month of each academic semester. Withdrawal is defined as an indefinite separation from the College. The form for **Withdrawal from College** is obtained from the Office of the Dean of Students and must be returned to the Office of the Dean of Students.

Students who have withdrawn and wish to return to the College must apply for readmission through the Admissions Office. Readmission is not automatic; enrollment and other considerations may not permit return at that time.

Leave of Absence A student who finds it necessary to leave college for one or two semesters must apply for an official **Leave of Absence** through the Office of the Dean of Students. The student must be in good academic standing in order to be considered for a leave of absence.

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

Upon admission to the College and to a major program, the student is given a work program, outlining particular requirements and recommending the sequence in which he/she 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/she consults with the academic adviser and registers for the new semester. A student who misplaces or loses the work program may obtain a new copy from the Office of Advisement and must pay the standard fee if a transcript of grades is needed to complete the new copy of the 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

Academic Standing Guidelines

Credits Attempted	Good Standing	Automatic Probation	Dismissal
23 credits or less*	2.00 or better	Not Applicable	Not Applicable
24 to 30 credits	2.00 or better	1.99 to 1.20	1.19 or less
31 to 60 credits	2.00 or better	1.99 to 1.70	1.69 or less
61 to 90 credits	2.00 or better	1.99 to 1.90	1.89 or less
91 to graduation	2.00 or better	Under 2.00 with one semester or term to achieve a 2.00	1.99 or less after the grace semester or term to achieve a 2.00

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

General Curriculum Requirements

To qualify for an undergraduate degree at William Paterson College, a student must earn a minimum of 120 credits, achieve a minimum 2.0 cumulative average and 2.0 major average. In most instances, the 120 credits will include:

Approximately 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. 16.

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 the academic adviser to take the elective without the prerequisite.

Freshman Basic Skills Program

On March 18, 1977, the New Jersey Board of Higher Education mandated a basic skills program to test all entering students 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 sense, computation and elementary algebra.

Tests are required for students who are accepted as new freshmen, for transfer students who have not taken these tests or completed equivalent English/mathematics courses, for international students and for non-degree students registering for the 12th credit.

Students needing remediation are placed in appropriate courses to develop essential academic skills during the first semester. These courses are required and are prerequisite to all other English and mathematics courses. 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/her 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 and cultures.

Approximately 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 (53 credits) and the school curriculum requirement (7-9 credits).

COLLEGE CURRICULUM REQUIREMENT 53 credits

A. Arts and Communication 6 credits

Art
Music
Theatre
Communication

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

B. Humanities 18 credits

Writing Effective Prose 3 credits
Foreign Language 6 credits
History 3 credits
Literature 3 credits
Philosophy 3 credits

C. Science 11 credits

Mathematics 3 credits
Science 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 science 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 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 appropriate 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.
4. 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 credit.

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 are 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 or she has sufficient knowledge, acquired by experience or private study, is encouraged to accelerate or enrich the 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.
2. No examination is permitted in a subject in which the student has pursued more advanced work for which he or she 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.
5. 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 after 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:

1. No duplication of credit for CPEP and CLEP tests is permitted.
2. 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.
3. 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. 93.

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 Services. Applications for the Law School Aptitude Test (LSAT) may be obtained at the Academic Information Center 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 meets state criteria 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, many 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. The Center also administers CLEP, ACT and NLN exams and coordinates off campus courses and the College's summer sessions. Further information is available from the Center for Continuing Education.

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.

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 Student Program Development.

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 pre-medical/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 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.

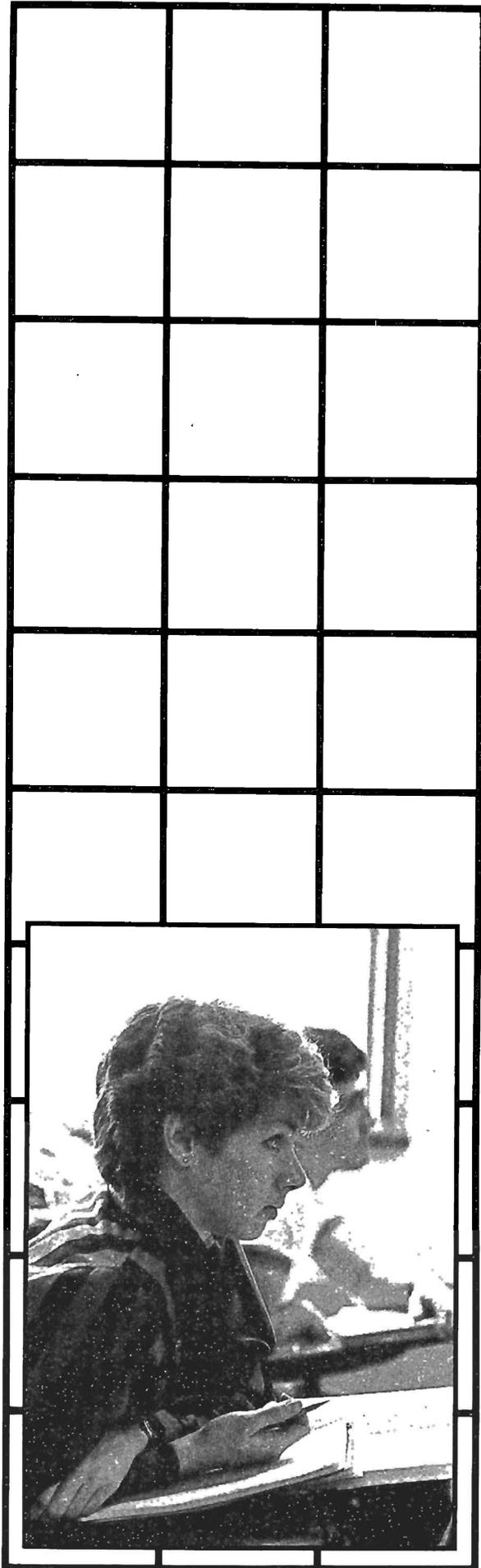
International Management Students of exceptional ability and interest become eligible for the international management honors program during the first semester of the sophomore year. The program combines both regular and special honors section courses in economics, business administration, political 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 thirteen graduate programs leading to master of arts, master of science, master of education and master of business administration degrees.

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



**THE
SCHOOL
OF THE
ARTS
AND
COMMUNICATION**

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

Assistant Professors—A. Brown, M. Fay, C. Magistro, M. Schnur

Instructors—P. Baffa, L. Farber (half time), D. Horton (half time)

Gallery Director—A. Einreinhofer

The Department of Art at William Paterson College is located in the 50,000 sq. ft. Ben Shahn Center for the Visual Arts. A vital component of the department and the College, the Ben Shahn Galleries are situated in the same structure.

The department offers the following: B.A. in Art, with concentrations in art education, art history and studio art, and a generic B.F.A. in visual art. Each curriculum is specifically designed to increase visual perception, stimulate creativity, cultivate independent thinking and produce professionals in the field of visual arts.

Major areas of studio concentration include painting, printmaking, computer as art medium, graphic design, sculpture, photography, textiles, ceramics, jewelry and furniture design. Within the B.A. degree in art history, students are able to concentrate in gallery and museum studies.

The professional arts faculty will advise each student on the course of study best suited for specific career goals. Internships are available in a variety of the studio settings.

The Department of Art offers a distinctly professional program in which students devote the greater portion of each day to professional courses in the arts. Located within a liberal arts institution of higher education in close proximity to New York City, the program offers students the advantage of comprehensive facilities, as well as professionally competent faculty. It is rare that a student is able to acquire professional arts training within an academic setting that is committed to a fine liberal arts experience. This strong academic background enables our students to develop innovative approaches to the making and comprehension of works of art which elaborate upon the complexities of contemporary society. The Department of Art encourages students to develop a highly professional attitude toward their work and the solution of significant creative problems.

MAJOR REQUIREMENTS: 99 credits

B.F.A. IN FINE ART

Art History 15 credits

ART 114	Western Art I	3
ART 115	Western Art II	3
ART 210	Modern Art I	3
ART 211	Modern Art II	3
	Elective	3

Studio Foundations 15 credits

ART 160	Graphic Delineation	3
ART 161	Drawing	3
ART 162	2-D Design	3
ART 163	Color	3
ART 164	3-D Design	3

Core Courses 30 credits

ART 201	Life Drawing	3
ART 401	Advanced Drawing	3
ART 413	Thesis Project I	3
ART 414	Thesis Project II	3
	Remaining Core Courses by Advisement	18

Fine Arts 27 credits

Studio Requirements

ART 141	Sculpture	3
ART 181	Ceramics	3
ART 241	Wood Materials I	3
	Any two of the above courses must be repeated at the advanced level outside the major concentration.	6

Any four the following:

ART 121	Painting	3
ART 133	Textile Design	3
ART 151	Printmaking	3
ART 171	Photography	3
ART 191	The Computer as an Art Medium	3

Electives (by advisement) 12 credits

MAJOR REQUIREMENTS: 39 credits

STUDIO CONCENTRATION (B.A.)

Art History 9 credits

ART 114	Western Art I	3
ART 115	Western Art II	3
ART 210	Modern Art I	3

Studio Foundations 15 credits

ART 160	Graphic Delineation	3
ART 161	Drawing	3
ART 162	2-D Design	3
ART 163	Color	3
ART 164	3-D Design	3

Major Requirements 15 credits

Five studio courses by advisement

MAJOR REQUIREMENTS: 39 credits

ART HISTORY CONCENTRATION (B.A.)

Core Courses 24 credits

ART 114	Western Art I	3
ART 115	Western Art II	3
ART 210	Modern Art I	3
ART 211	Modern Art II	3
ART 303	Greek and Roman Art	3
ART 393	Medieval Art	3
ART 395	Italian Renaissance Art	3
ART 396	Baroque and Rococo	3

Electives 15 credits

Art history majors may elect any five upper-level art history courses with advisement.

MINOR REQUIREMENTS: 18 credits

STUDIO ART

Choose four of the following courses:

ART 121	Painting	3
ART 141	Sculpture	3
ART 161	Drawing	3
ART 163	Color	3
ART 201	Life Drawing	3
Electives		6

MINOR REQUIREMENTS: 18 credits

ART HISTORY

ART 114	Western Art I	3
ART 115	Western Art II	3
ART 210	Modern Art I	3
Art history electives		9

Note: It is suggested that a student who wishes to minor in art history also elect six credits among the courses in the studio art minor.

Secondary Education (K-12)

Certification Requirements 30 credits

Please see chairperson in the Department of Curriculum and Instruction for appropriate certification sequence.

Courses

All courses are for 3 credits, unless otherwise noted.

ART 114 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 115 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 121 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 130 Approaches to Western 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 133 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 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 141 Sculpture (studio)

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

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 151 Printmaking (studio)

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

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 2-D Design

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 3-D Design

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 171 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.

ART 181 Ceramics (studio)

Physical properties of clay and methods of hand-construction and wheelthrowing. Complete processing through firing and glazing. Outside assignments required.

ART 191 The Computer as an Art Medium

The first-level course in computer graphics is used to generate computer art. Emphasis is placed on developing technical skills in the use of computer graphics software, with an orientation toward their application in the fine and applied arts.

ART 201 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 210 Modern Art I (lecture)

A study of the history of art from the French Revolution until 1910. Emphasizes the developments of major schools and styles, as well as significant individual contributions.

ART 211 Modern Art II (lecture)

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

ART 224 Painting Experiments in Color

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, 121

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

WILLIAM PATERSON COLLEGE

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 (lecture)
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 140

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

ART 273 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 171

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 recommended

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, typography, printing and the development of a personal creative approach.
Prerequisite: 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 (lecture)
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 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 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 masonry 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.

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.

ART 371 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 392 Prehistoric and Egyptian Art (lecture)

The early appearance of graphic and figurative pictorial language in Paleolithic sites in France and Spain (ca. 25,000-13,000 B.C.), such as Lascaux and Altamira and Neolithic architecture, sculpture, painting and pottery (ca. 3,000-500 B.C.) in Malta, England, Ireland, Germany and Scandinavia are studied. Ancient Egyptian art 3,500-300 B.C. is analyzed in the second half of the semester. The universality of early forms of art and their relation to the concerns of hunting and agricultural peoples and the complex funerary art of dynastic Egypt are discussed.

Prerequisite: 1 course in art history

ART 393 Medieval Art (lecture)

A study of the history of art from the conversion of Constantine in the fourth century A.D. to the first stages of Renaissance style in Europe. Emphasis is placed on the religious character of the Middle Ages, with special reference to Christian dogma and themes.

Prerequisite: 1 course in art history

ART 394 Northern Renaissance Art (lecture)

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 Rococo (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 their 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 theoretical 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 techniques 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** and **II**.

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

(studio)

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

WILLIAM PATERSON COLLEGE

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 (studio)
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 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 I (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 Neoclassic and Romantic Art

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 The History of Book Design

A study of the art of the book from fifth-century manuscript illumination to early twentieth-century book illustration. Special emphasis is placed on the relationship of patrons such as Charlemagne to their manuscripts, on some outstanding cycles of manuscript illustrations such as texts as the Apocalypse and the Bestiary and on the contribution of William Morris and the Kelmscott Press.

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 preserves of the Greco-Roman heritage, an expression of a Christian imperial state and a model for Western European art during the middle ages.
Prerequisite: 1 course in art history

ART 499 Independent Study

As approved and to be arranged.
1-3 credits

Department of Communication

Professor—A. Maltese (chairperson)

Associate Professors—S. Berman, J. Chamberlain, A. Freund, A. Lenrow

Assistant Professors—D. Evans, F. Gillooley, J. Hunt, H. Jackson, C. Merola, B. Morganstern, I. Olaye, D. Peck, B. Ryder, S. Tarbox, P. Travis

Instructor—M. Maltese

The Department of Communication offers a B.A. in communication with concentrations in interpersonal communication, radio-television, film, journalism, media performance/design and telecommunications.

The interpersonal communication concentration provides courses in the theory and practice of verbal and extraverbal communication in context 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 sophisticated readers-listeners-viewers of the news media. While emphasis is placed on writing, students learn all phases of the news-gathering and reporting process.

The media performance design concentration affords selected students opportunities to coordinate interests in theatre and communication, specializing in production and performance.

The telecommunications concentration provides students with opportunities to investigate areas in voice and data transmission, videotext, information systems and teleconferencing. The sequence introduces students to technologies such as satellite and phone systems, as well as to business communication skills. The program prepares students for opportunities in the quickly-growing telecommunications industry.

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.

MAJOR REQUIREMENTS 39 credits

COMM 110	Communication in Action	3
COMM 120	Mass Communication	3
COMM 444	Colloquium in Communication	3

Plus three of the following:

COMM 220	Radio and Television	3
COMM 222	The Press in a Free Society	3
COMM 234	Film as a Medium	3
COMM 250	Journalism	
COMM 260	Oral Interpretation	3
COMM 266	Dynamics of Communication	3

Concentration 21
Students choose the 21 "concentration" credits from one of the following areas:

A. Interpersonal

COMM 221	Introduction to Communication Theory	
COMM 265	Foundations of Language	
COMM 340	Intercultural Communication	
COMM 348	Public Relations	
COMM 361	Successful Business and Professional Communication	
COMM 363	Public Speaking	
COMM 364	Voice and Speech Production	
COMM 365	Introduction to Rhetoric	
COMM 463	Group Discussion	
COMM 464	Debate	

B. Radio and Television

COMM 225	Audio Production	
COMM 321	Announcing	
COMM 322	Advanced Announcing and Narration	
COMM 323	Television Production	
COMM 324	Writing for Television	
COMM 326	Advanced Television Production	
COMM 330	Television Internship	
COMM 352	Broadcast Advertising	
COMM 353	Advanced Audio Production	
COMM 421	Broadcast Management	
COMM 423	International Broadcasting Systems	
COMM 424	Radio Production Workshop	
COMM 425	Television Workshop	
COMM 426	EFP and Video Editing	

WILLIAM PATERSON COLLEGE

C. Journalism

- COMM 349 Radio News
- COMM 350 Television News
- COMM 351 Advanced Reporting
- COMM 451 Free Lance Writing
- COMM 452 Advanced Broadcast Journalism
- COMM 454 News Editing
- COMM 455 Electronic News Gathering
- COMM 459 Journalism Field Studies
- COMM 460 Reporting Public Affairs

D. Film Studies

- COMM 230 Filmmaking I
- COMM 331 Filmmaking II
- COMM 332 Documentary Film Production
- COMM 333 Film Animation I
- COMM 334 Film Animation II
- COMM 431 Screenwriting
- COMM 432 Dramatic Film Production
- COMM 434 Current Cinema
- COMM 437 Film Editing
- COMM 499 Independent Study

E. Media Performance/Design

- THEA 130 Scenery Construction for Stage and Media I
- THEA 230 Scenery Construction for Stage and Media II
- THEA 236 Lighting for Stage and Media I
- THEA 239 Scene Design for Stage and Media I
- THEA 274 Acting for Television I
- THEA 335 Scene Painting I
- THEA 336 Lighting for Stage and Media II
- THEA 339 Scene Design for Stage and Media II
- THEA 374 Acting for Television II
- THEA 377 Directing for Stage and Media
- THEA 435 Scene Painting II
- THEA 474 Acting for T.V. Commercials

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 film-making 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. Include 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 110 or permission of the instructor

COMM 265 Foundations of Language

Present 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 non-verbal languages and the influence of these languages as tools for communication.

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.

Prerequisites: COMM 321, 364

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 broadcasting.

Prerequisite: COMM 225

COMM 324 Writing for Radio and Television

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 syncsound.

Prerequisite: COMM 230

COMM 332 Filmmaking III

An intensive lecture/laboratory course in film production. Concentrating on professional techniques of casting, rehearsing, lighting, editing. Each student completes a short 16mm narrative or documentary film.

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 340 Intercultural Communication

Through a comparison of numerous cultures, students explore the primary distinguishing characteristics of culture and identify strategies for relating their own culture to those of others. Emphasis is placed on an eclectic cultural design. The primary course goal is to provide students with practical, and theoretical knowledge, and an understanding of intercultural communication in contemporary life situations (business, social, personal, political, musical, religious, educational, philosophical, artistic and literary contexts).

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.

Prerequisite: COMM 120

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.

Prerequisite: COMM 225

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 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 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.

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 factors.

Prerequisite: COMM 220

COMM 423 International Broadcasting Systems

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.

Prerequisite: COMM 353

WILLIAM PATERSON COLLEGE

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 program-mable 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 ¾" editing systems is required.

Prerequisite: Permission of the instructor

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 16mm. 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 communication majors only.

COMM 451 Free-Lance Writing (Non-Fiction)

Instruction and supervised practice in non-fiction 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 entry-level jobs in broadcast journalism.

Prerequisite: COMM 350

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.

Prerequisite: COMM 350

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.

Prerequisite: Permission of the instructor

COMM 460 Reporting Public Affairs

The 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.

Prerequisite: COMM 250

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, D. Garcia, N. Guptill, G. Kirkpatrick, J. Kresky, S. Marccone, M. O'Connor, J. Weidensaul

Assistant Professors—P. Finney, V. Hill, R. Reid

The Music Department offers three degrees: the bachelor of music, the bachelor of arts in musical studies and the bachelor of science in music education. The latter fulfills certification requirements for public school music teaching in New Jersey, grades K-12. 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.M. degree programs and to the B.S. in music education. The evaluation by the audition jury consists of performance and an evaluation of the applicant's ability in theory, keyboard and aural skills.

Entrance Requirements:

B.M. Classical Performance

B.S. Music Education

**B.M. Music Management/
Classical Performance Track**

Piano: An invention by Bach, a first movement of a sonata by Haydn, Mozart, or Beethoven (except op. 27 no. 2 in C sharp minor), 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:

B.M. Jazz Studies and

Performance

B.M. Music Management:

Jazz Performance Track

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. The B.M. degree programs are classical performance, jazz studies and performance, and music management. The B.S. degree program in music education offers two concentrations: vocal and instrumental.

MUSICAL STUDIES (B.A.)

REQUIREMENTS			40 credits
MUS 160	Freshman Comprehensive Musicianship I		3
MUS 161	Freshman Comprehensive Musicianship II		3
MUS 164	Functional Class Piano I		1
MUS 165	Functional Class Piano II		1
MUS 180	Freshman Ear Training I		1
MUS 181	Freshman Ear Training II		1
MUS 207	Music History and Literature I		3
MUS 208	Music History and Literature II		3
MUS 260	Sophomore Comprehensive Musicianship I		3
MUS 261	Sophomore Comprehensive Musicianship II		3
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 304	Studies in Music		3
MUS 401	Twentieth Century Music I		3
	Performing Groups		8

WILLIAM PATERSON COLLEGE

CLASSICAL PERFORMANCE (B.M.)

REQUIREMENTS		78 credits
MUS 160	Freshman Comprehensive Musicianship I	3
MUS 161	Freshman Comprehensive Musicianship II	3
MUS 180	Freshman Ear Training I	1
MUS 181	Freshman Ear Training II	1
MUS 260	Sophomore Comprehensive Musicianship I	3
MUS 261	Sophomore Comprehensive Musicianship II	3
MUS 280	Sophomore Ear Training I	1
MUS 281	Sophomore Ear Training II	1
Ensembles (8 semesters)		8
Applied Music Major (8 semesters)		32
MUS 190, 191, 290, 291, 390, 391, 490, 491 (4 cr. each)		
MUS 234	Sophomore Recital Performance	0
MUS 310	Junior Recital Performance I	0
MUS 311	Junior Recital Performance II	0
MUS 464	Senior Recital Performance (2 semesters)	0
Functional Class Piano (4 semesters of 1 cr. each)		4
MUS 207	Music History and Literature I	3
MUS 208	Music History and Literature II	3
Other Music Courses		12

JAZZ STUDIES AND PERFORMANCE (B.M.)

REQUIREMENTS		91-93 credits
MUS 137	Jazz Improvisation I	2
MUS 138	Jazz Improvisation II	2
MUS 160	Freshman Comprehensive Musicianship I	3
MUS 161	Freshman Comprehensive Musicianship II	3
MUS 164	Functional Class Piano I†	1
MUS 165	Functional Class Piano II†	1
MUS 180	Freshman Ear Training I	1
MUS 181	Freshman Ear Training II	1
MUS 156	Applied Music Major	3
MUS 157	Applied Music Major	3
MUS 205	Applied Music Minor*	1
MUS 206	Applied Music Minor*	1
MUS 220	Jazz History	3
MUS 234	Sophomore Recital	0
MUS 236	Western Art Music	3
Jazz Performance Groups		16
MUS 251	Audio Recording I	3
MUS 255	Jazz Harmony	3
MUS 260	Sophomore Comprehensive Musicianship I	3
MUS 261	Sophomore Comprehensive Musicianship II	3
MUS 268	Functional Class Jazz Piano I	1
MUS 269	Functional Class Jazz Piano II	1
MUS 241	Sophomore Ear Training I	1
MUS 242	Sophomore Ear Training II	1
MUS 256	Applied Music Major	3
MUS 257	Applied Music Major	3
MUS 305	Applied Music Minor*	1
MUS 306	Applied Music Minor*	1
MUS 310	Junior Recital Performance I	0
MUS 311	Junior Recital Performance II	0

MUS 322	Jazz Improvisation III	2
MUS 323	Jazz Improvisation IV	2
MUS 356	Applied Music Major	3
MUS 357	Applied Music Major	3
MUS 368	Functional Class Jazz Piano III	1
MUS 369	Functional Class Jazz Piano IV	1
MUS 413	The Music Business	3
MUS 464	Senior Recital Performance	0
MUS 470	Jazz Arranging	3
MUS 471	Advanced Jazz Arranging	3
MUS 456	Applied Music Major	3
MUS 457	Applied Music Major	3
MUS 495	Jazz Styles and Analysis	3

PERCUSSIONISTS substitute 4 semesters of MUS 226 for MUS 137, 138; substitute MUS 205, 206 for MUS 322, 323.

VOCALISTS substitute MUS 305, 306 for MUS 137, 138.

Not required for pianists.
Jazz performing groups are 1 credit each.
Take two per semester.
Instrumentalists—93 credits
Percussionists—91 credits
Vocalists—91 credits
Pianists—91 credits
MUS 105, 106, 205, and 206 not required for pianists and vocalists.
Two years classical music required for pianists and vocalists.

Recital Hour (8 semesters; no credit)

MUSIC MANAGEMENT (B.M.)

REQUIREMENTS		88 credits
Core Courses		56 credits
MUS 160	Freshman Comprehensive Musicianship I	3
MUS 161	Freshman Comprehensive Musicianship II	3
MUS 180	Freshman Ear Training I	1
MUS 181	Freshman Ear Training II	1
MUS 260	Sophomore Comprehensive Musicianship I	3
MUS 280	Sophomore Ear Training I	1
MUS 261	Sophomore Comprehensive Musicianship II	3
MUS 281	Sophomore Ear Training II	1
MUS 162	Applied Music Major	2
MUS 163	Applied Music Major	2
MUS 262	Applied Music Major	2
MUS 263	Applied Music Major	2
MUS 234	Sophomore Recital Performance	0
MUS 362	Applied Music Major	2
MUS 310	Junior Recital Performance I	0
MUS 363	Applied Music Major	2
MUS 311	Junior Recital Performance II	0

MUS 462	Applied Music Major	2
MUS 464	Senior Recital Performance Ensembles	0
4 semesters of Functional Classical Piano		1
or		
4 semesters Applied Music Minor		1
MUS 236	Western Art/Music	3
MUS 220	Jazz History OR	
MUS 317	History of American Popular Music	3
MUS 307	Basic Conducting	3
Advanced Music Courses*		6

Music Management 20 credits

MUS 125	Survey of Musical and Entertainment Industry	3
MUS 270	Structure and Cont. of M.I.	3
MUS 316	Media Use in Musical and Entertainment Industry	3
MUS 452	Law and Ethics in Musical and Entertainment Industry	3
MUS 403	Music Management Seminar	1
Plus seven credits chosen from:**		
MUS 315	Musical Performance in the Media	2
MUS 303	Music Management Internship	1
MUS 450	Personal Management in Music	3
MUS 4	Music Management Honors Internship	6

School of Management 12 credits

BUS 201	Introduction to Management	3
BUS 211	Accounting I	3
BUS 251	Business Law I	3
BUS 310	Marketing	3

*300 level or higher

**Production Concentration may substitute one sound recording course

Business Concentration must take MUS 450 Personal Management

MUSIC MANAGEMENT MINOR 21 credits

Students wishing to minor in music management will be admitted to music management courses depending on availability of space. Students must earn a 3.0 GPA in MUS 125 **Survey of the Music and Entertainment Industry** and one additional music management course in order to be admitted to the program. They then complete the sequence outlined below. A 2.5 GPA must be maintained in these courses to continue through the sequence.

MUS 120	Music Appreciation	3
MUS 125	Survey of the Music and Entertainment Industry	3
MUS 270	Structure and Content of the Music Industry	3
MUS 316	Media Use in the Music and Entertainment Industry	3
MUS 452	Law and Ethics in Music Management	3
MUS 450	Personal Management in Music	3
Music Elective*		3

*Excluding music management courses

THE SCHOOL OF THE ARTS AND COMMUNICATION

MUSIC EDUCATION (B.S.) REQUIREMENTS/N.J. PUBLIC SCHOOLS, K-12 MUSIC CERTIFICATION

Two concentrations are offered in this program. Students admitted as performance majors in keyboard, guitar or voice ordinarily choose the concentration in preparation for teaching vocal/general music in grades K-12. Students whose performance is on a standard band or orchestral instrument will take the instrumental concentration.

Students are admitted to the music education programs on a probationary status for the freshman and sophomore years. Full status as a music education major is determined prior to the beginning of the junior year.

Note: Performance majors in keyboard or guitar who want an instrumental concentration must also meet the entrance audition requirements on a band or orchestral instrument outlined on p. 29. Performance majors in keyboard or guitar must meet the entrance requirements for a voice minor, i.e. demonstrate voice potential as a prospective teacher of choral/vocal music in the public schools.

VOCAL CONCENTRATION 62 credits

MUS 101	Flute and Clarinet	1
MUS 103	Trumpet	1
MUS 105	Violin	1
MUS 107	Guitar	1
MUS 108	Percussion	1
MUS 160	Freshman Comprehensive Musicianship I	3
MUS 161	Freshman Comprehensive Musicianship II	3
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 (not required of voice majors)	1
MUS 167	Voice Class II (not required of voice majors)	1
MUS 180	Freshman Ear Training I	1
MUS 181	Freshman Ear Training II	1
MUS 205	Applied Music Minor	1
MUS 206	Applied Music Minor	1
MUS 207	Music History and Literature I	3
MUS 208	Music History and Literature II	3
MUS 234	Sophomore Recital Performance	0
MUS 260	Sophomore Comprehensive Musicianship I	3
MUS 261	Sophomore Comprehensive Musicianship II	3
MUS 262	Applied Music Major	2
MUS 263	Applied Music Major	2
MUS 266	Functional Class Piano-Advanced (or MUS 264)	1
MUS 267	Functional Class Piano-Advanced (or MUS 265)	1
MUS 280	Sophomore Ear Training I	1
MUS 281	Sophomore Ear Training II	1
MUS 301	Form and Analysis	3
MUS 302	Arranging	3
MUS 305	Applied Music Minor	1
MUS 306	Applied Music Minor	1

MUS 307	Basic Conducting	3
MUS 308	Choral Conducting	2
MUS 310	Junior Recital Performance I	0
MUS 311	Junior Recital Performance II	0
MUS 362	Applied Music Major	2
MUS 363	Applied Music Major	2
MUS 462	Applied Music Major	2
MUS 464	Senior Recital Performance	0

Note: Six semesters of vocal seminar are also required of voice majors.

SECONDARY EDUCATION (K-12) REQUIREMENTS

Students interested in obtaining teaching certification should see page 40 for further information.

INSTRUMENTAL CONCENTRATION 62 credits

MUS 101	Flute and Clarinet	1
MUS 102	Double Reeds	1
MUS 103	Trumpet	1
MUS 104	Low Brass	1
MUS 105	Violin	1
MUS 106	Low Strings	1
MUS 107	Guitar	1
MUS 108	Percussion	1
MUS 160	Freshman Comprehensive Musicianship I	3
MUS 161	Freshman Comprehensive Musicianship II	3
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 Literature I	3
MUS 208	Music History and Literature II	3
MUS 234	Sophomore Recital Performance	0
MUS 260	Sophomore Comprehensive Musicianship I	3
MUS 261	Sophomore Comprehensive Musicianship II	3
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	3
MUS 302	Arranging	3
MUS 307	Basic Conducting	3
MUS 309	Instrumental Conducting	3
MUS 310	Junior Recital Performance I	0
MUS 311	Junior Recital Performance II	0
MUS 362	Applied Music Major	2
MUS 363	Applied Music Major	2
MUS 462	Applied Music Major	2
MUS 464	Senior Recital Performance	0

SECONDARY EDUCATION (K-12) REQUIREMENTS

Students interested in obtaining teaching certification should see page 40 for further information.

MINOR REQUIREMENTS 18 credits

MUS 160-161	Freshman Comprehensive Musicianship I and II	6
MUS 164-165	Functional Class Piano (2 semesters)	2
MUS 180-181	Freshman Ear Training I and II	2
MUS 207-208	Music History Performance Groups (2 semesters)	6 2

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.

MUS 200	Concert Choir
MUS 202	College Chorus (no audition)
MUS 203	Chamber Singers
MUS 211	Concert Band
MUS 212	Preparatory Band
MUS 213	College Community Orchestra
MUS 214	Brass Ensemble
MUS 215	Brass Quintet
MUS 216	Woodwind Ensemble—Clarinet
MUS 217	Woodwind Ensemble—Saxophone
MUS 218	Woodwind Quintet
MUS 219	Percussion Ensemble
MUS 221	WPC—NJ Percussion Ensemble
MUS 222	Jazz Ensemble
MUS 223	Chamber Jazz Ensemble (multiple sections)
MUS 224	Jazz Lab Ensemble I (multiple sections)
MUS 225	Jazz Rhythm Section (multiple sections)
MUS 226	Jazz Percussion Lab
MUS 229	Trombone Ensemble
MUS 230	Classical Guitar Ensemble
MUS 231	Twentieth Century Chamber Ensemble
MUS 233	Jazz Vocal Lab
MUS 235	Latin Jazz Ensemble
MUS 239	Jazz Vocal Workshop
MUS 240	New Jazz Ensemble

1 credit each

WILLIAM PATERSON COLLEGE

Instrumental Classes

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 Clarinet
 - 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

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 125 Survey of the Music and Entertainment Industry

Creative and business aspects of industry. Publishing, copyright, performing rights, mechanical rights, artist, recording companies, production, marketing, merchandising, mass media and sociological implications.

MUS 130 Symphonic Music

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

MUS 137 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.

MUS 138 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.

MUS 140 Opera

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

MUS 150 Introduction to Jazz

A performance workshop class for the classical (non-jazz) musician interested in developing basic performance skills in the jazz idiom. Emphasis on style, repertoire and techniques of improvisation.

MUS 156, 157, 256, 257, 356, 357, 456, 457 Applied Music Major (Jazz)

Individual instruction in piano, voice, percussion, band and orchestral instruments. 3 credits each

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 inter-relationships 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 for B.S. majors. 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 tenor clefs are introduced during the freshman year.

1 credit each

MUS 190, 191, 290, 291, 390, 391, 490, 491 Applied Music Major (B.M.)

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, voice, band and orchestral instruments.

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 209 Vocal Seminar

This is a six-semester sequential course for voice majors designed to provide students with a working knowledge of foreign language diction for singing and an acquaintance with standard vocal literature. 1 credit each semester

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, MUS 291, or MUS 257. 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 241 Jazz Ear Training I

An integrated course in ear training that includes the development of sight-singing, dictation, improvisation and rhythmic skills as they especially apply to the jazz style. Prerequisite: MUS 181
1 credit

MUS 242 Jazz Ear Training II

An integrated course in ear training that includes the development of sight-singing, dictation, improvisation and rhythmic skills as they especially apply to the jazz style and continuation of Ear Training I. Prerequisite: MUS 241
1 credit

MUS 251 Audio Recording I

A laboratory course concentrating on basic audio recording techniques with emphasis on care, maintenance and operation of sophisticated multi-track recording equipment.

MUS 252 Audio Recording II

A continuation of Audio Recording I with greater attention to detail and more emphasis on the degree of perfection in recording; greater variety in recording situations (jazz, classical, small and large vocal and instrumental groups). Prerequisite: MUS 251

MUS 255 Jazz Harmony

This course provides an intensive study of chords, voicings and harmonic progressions as they occur in the jazz style. Prerequisite: MUS 161

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. 1 credit each

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". 1 credit each

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 270 Structure and Content of the Music Industry

Historical aspects of recording and publishing industries and their impact on society. Current trends in publishing and recording including their business structure and role in the industry.

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 303 Music Management Internship

Designed to provide practical experience for students in program. Interns experience actual industry functioning. For music management majors only. 1 credit

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 techniques 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. Prerequisite: MUS 261

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 340 Junior Recital Performance I

Taken with MUS 356, 362 or 390. 0 credits

WILLIAM PATERSON COLLEGE

MUS 311 Junior Recital Performance II

Taken with MUS 357, 363 or 391.
0 credits

MUS 315 Music Performance in Media

Practical and philosophical aspects of music in audio, visual, and live media. Roles, functions, and responsibilities involved in media production. Performing experience and production experience (from musician's viewpoint) in audio, video, and live-workshop settings.
For music management majors only.
2 credits

MUS 316 Media Use in Music and Entertainment Industry

Articles, press kit, promotional materials, advertising, and the media in industry relations. Roles of artist, p.r. representative, advertising company, and recording company. Application of communication skills to professional tasks.
Prerequisite: MUS 125

MUS 317 History of American Popular Music Since 1950

Chronological survey, sociological implications, current trends and new directions.

MUS 322-323 Jazz Improvisation III and IV

Continuation of Improvisation II
Prerequisites: MUS 161, 320, 321 and/or permission 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.
Prerequisite: Permission of the instructor
1 credit

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, poly-music, etc.
Prerequisite: MUS 341 and 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 403 Music Management Seminar

Lectures by industry experts. Resumé critique and job entry suggestions.
Prerequisite: Permission of the instructor
1 credit

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.
2 credits

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 450 Personal Management in Music

Contemporary performers, changing trends in consumer practices and evaluation criteria for musical performances. Field experiences followed by critiques. Systems approach to personal management. For music management majors and minors only.

MUS 452 Law and Ethics in the Music and Entertainment Industry

Legal aspects of industry. Ethical considerations for management and artists. Domestic and international copyrights, contracts, labor agreements, trade practice regulations, piracy, payola, as specifically pertaining to music and entertainment industry.
For music management majors and minors only.

MUS 464 Senior Recital Performance

B.S. majors take this with MUS 462; B.M. in classical performance majors take this with MUS 490 and 491; B.M. jazz majors take this with 456 and 457.
0 credits

MUS 470 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 471 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 495 Jazz Styles and Analysis

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.
Prerequisite: MUS 261

MUS 499 Independent Study

As approved and to be arranged.
1-3 credits

Department of Theatre

Professors—W. Grant, B. Gulbranson (chairperson), J. Ludwig, B. Sandberg
Associate Professor—R. Morgan
Assistant Professor—M. Massee
Visiting Specialists—G. Silk (half-time), R. Silvestro

The department offers a B.A. in dramatic arts. 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 or her 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. A double major combining theatre and communication is available for interested students. For further information, contact the chairperson of either department.

MAJOR REQUIREMENTS 33 credits

Required Core 9 credits

THEA 130	Scenery Construction for Stage & Media I	3
THEA 141	Theatre Management	3
THEA 170	Acting I: Improvisation	3

Labs (three of the five must be taken) 3 credits

THEA 111	Audience Management	1
THEA 112	Stagecraft	1
THEA 114	Costume	1
THEA 115	Production	1
THEA 117	Performance	1

Literature and History 3 credits

THEA 261	Playscripts	3
THEA 360	History of Theatre	3
THEA 363	American Theatre & Drama	3

Applied Courses 3 credits

THEA 252	Broadway Matinees	3
THEA 289	Introduction to Drama Therapy	3
THEA 381	Drama for Children	3
THEA 454	Playwriting	3

Major Electives 15 credits

Through advisement, the student will elect 15 credits from either one or both of the following groups of courses:

Performance/Production

THEA 270	Acting II: Advanced Improvisation	3
THEA 272	Acting III: Principles of Characterization	3
THEA 274	Acting for Television I	3
THEA 275	Acting IV: Scene Study	3
THEA 374	Acting for Television II	3
THEA 375	Acting V: Advanced Scene Study	3
THEA 376	Acting: Musical Theatre Performance	3
THEA 377	Directing for Stage & Media	3
THEA 474	Acting for T.V. Commercials	3
THEA 479	Showcase	3
THEA 483	Childrens Theatre	3

Design/Technical Theatre

THEA 230	Scenery Construction for Stage & Media II	3
THEA 236	Lighting for Stage & Media I	3
THEA 239	Scene Design for Stage & Media I	3
THEA 333	Stage Management	3
THEA 335	Scene Painting I	3
THEA 336	Lighting for Stage & Media II	3
THEA 339	Scene Design for Stage & Media II	3
THEA 435	Scene Painting II	3

Courses

Unless otherwise noted, each course is for 3 credits.

The first course is especially designed to satisfy general education requirements.

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 111 Audience Management Laboratory

A practical application of the administrative aspects of audience management. May be repeated for credit. 1 credit

THEA 112 Stagecraft Laboratory
 Supervised direction and practiced application of the principles involved in the technical aspects of producing a play. Provision is made for individual and group training in such areas as stage management, lighting, scenery, properties makeup and sound. May be repeated. 1 credit

THEA 114 Costume Laboratory
 A laboratory in costume construction for theatre production with individual instruction in construction techniques. May be repeated. 1 credit

THEA 115 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. Evening hours required. May be repeated. 1 credit

THEA 117 Performance Laboratory
 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 130 Scenery Construction for Stage and Media I
 Fundamentals of scenery construction are considered in a practical situation. An introduction to the scenery shop and related facilities and equipment and their use within the production framework. The course includes instruction in the techniques of stagecraft and methods of production.

THEA 141 Theatre Management
 An investigation of operational procedures including administration, purchase and accounting practices, box-office management, publicity, promotion, public relations, policy and decision making, and management of theatre personnel.

THEA 170 Acting I: Improvisation
 Use of improvisation to explore group expression in a spontaneous mode. Emphasis on physicalization, mime and other non-verbal modes such as theatre games as personal development in the arts of acting.

THEA 230 Scenery Construction for Stage and Media II
 Advanced problems in set and property construction are considered in laboratory and practical situations. This course also concerns itself with analysis of various construction problems.

THEA 236 Lighting for Stage and Media I
 Training in the problems of lighting design and its application to stage and television production in various forms. Color, rhythm and aesthetic backgrounds are examined in the context of good lighting design.

THEA 239 Scene Design for Stage and Media I

Training in the problems of scenery design for production in various media. Color, line and movement are examined in the context of good design. Individual projects are required.

THEA 252 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 261 Playscripts

A study of playscripts in terms of both their functional, 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 270 Acting II: Advanced Improvisation

A continuation of the emphases of **Acting I**. Additionally, **Acting II** focuses on dramatic processes as they formalize into theatrical performance. The creation of dramatic form (plot, character setting) as it relates to theme (or message, metaphor) is of particular focus. An introduction to improvisation a **formal** theatrical mode.

THEA 272 Acting III: Principles of Characterization

An array of methods to discover and to perform characters from drama, including the use of costume and makeup as creative sources.

THEA 274 Acting for Television I

A course rooted in theory and principles which introduces students to the nature of television and affords basic on-camera performing experience.

THEA 275 Acting IV: Scene Study

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

THEA 289 Introduction to Drama Therapy

A course in the basic principles, methods and practices of the drama therapy process. Provides an overview of the process. Requires four hours of practicum per week in addition to regular classwork.

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 335 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 336 Lighting for Stage and Media II

Advanced training in the problems of lighting design and control as related to their application to production in stage and the media. The use and application of sound effects and the development of sound tapes for theatrical productions are examined.

THEA 339 Scene Design for Stage and Media II

An advanced study of the problems of the scenic designer in theatre, television and film. Concentration is on the areas of materials and techniques. The student is expected to produce models and renderings utilizing various techniques and structures.

THEA 360 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 which were shaped by the theatre and develops critical standards of theatre.

THEA 363 American Theatre and Drama

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

THEA 374 Acting for Television II

An advanced course in television acting which includes challenging work on various modes of dramatic literature adapted to television. In addition, the course features advanced performing techniques and varied experiences with the dramatic television director.

THEA 375 Acting V: Advanced Scene Study

An advanced course centering on role preparation and performance of various modes of drama in the setting of theatre as a comprehensive art.

THEA 376 Acting: Musical Theatre Performance

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 377 Directing for Stage and Media

Principles and theory for the production of plays on stage and on television. Practical experience in guiding performers so that they turn scripts into plays.

THEA 381 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 385 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 435 Scene Painting II

A continuation of the scenic artists craft. Advanced techniques, concentrating on the use of aniline dyes, are explored.

THEA 446 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 447 Theatre Workshop II

A continuation of THEA 446. 3-9 credits

THEA 448 Theatre Workshop III

A continuation of THEA 447. 3-9 credits

THEA 454 Playwriting

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 474 Acting for Television Commercials

Varied experiences rehearsing and performing television commercials.

THEA 479 Acting: Showcase

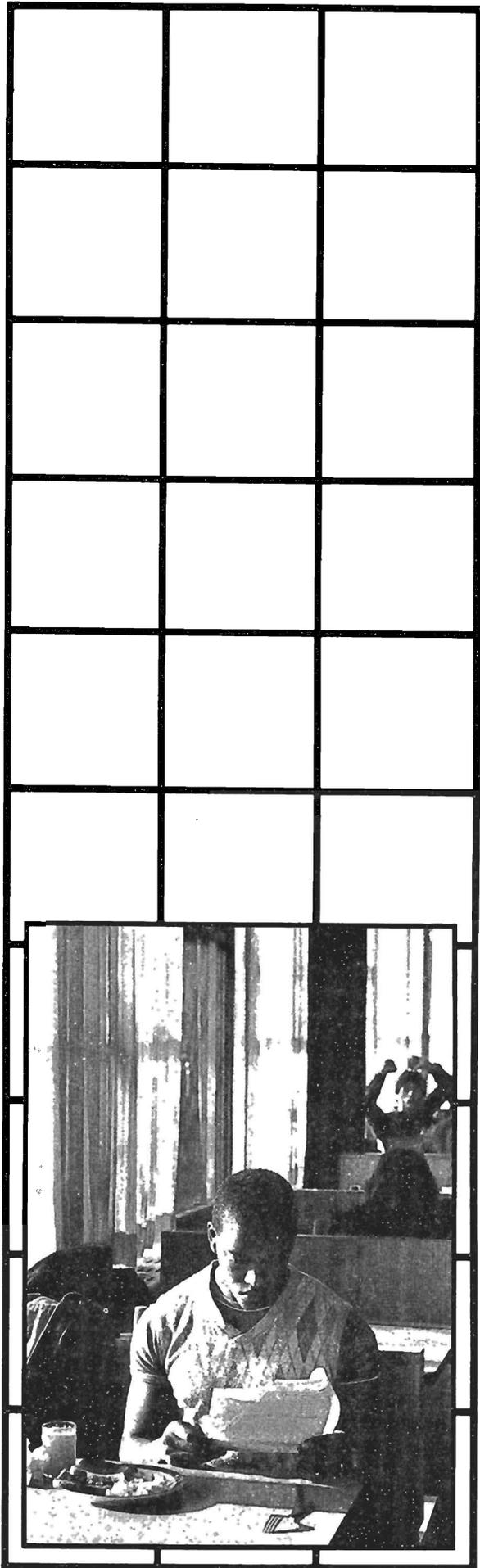
A directed independent practicum culminating in a public performance.

THEA 483 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 499 Independent Study

An advanced performance project under faculty supervision. Prerequisite: Approval of the chairperson



**THE
SCHOOL
OF
EDUCATION
AND
COMMUNITY
SERVICE**

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 recommends 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. In addition, the School of Education and Community Service supervises the women's studies program.

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.

Teacher education sequences are available to undergraduate evening students in the following fields: early childhood, elementary education, special 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. 75; in teaching English as a second language, p. 75; and in speech correction, p. 57.

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 Mr. John Huber.

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

1. Admission to the appropriate major department.
2. 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 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 experiences.
 - (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 or her own placement.
2. 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 or she 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 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. 38.
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 EDUC 465 unless EDUC 466 is completed.
4 credits.

EDUC 466 In-Service Supervised Teaching Seminar II

A continuation of EDUC 465
4 credits

Women's Studies

MINOR REQUIREMENTS 18 credits

WS 110	Women's Changing Roles	3
or		
WS 150	Racism and Sexism in Changing America	3
or		
POL 210	Politics and Sex	3
Plus five of the following courses:		
AAAS 255	The Black Woman Experience	3
ENG 217	Images of Women in Modern Literature	3
ENG 219	Nineteenth Century Women's Voices	3
ENG 220	Women, the Bible and Modern Literature	3
WS 307	Sex Stereotypes and Discrimination in Public Education	3
WS 499	Independent Study in Women's Studies	1-3

HSC 210	Women's Health	3
HIST 250	Women's History	3
PHIL 324	Philosophy of Sexual Politics	3
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.

WS 150 Racism and Sexism in a Changing America

What is it like to grow up black or white, male or female in a multi-cultural society? The course studies the historical, philosophical, social and political treatments and interpretations of blacks and women in the United States. Selected topics include media stereotypes of blacks and women; definitions and rationalizations of racism and sexism; the role that blacks and women have played in U.S. history; the relationship between the nineteenth-century abolitionist movement and the early feminist movement; the relationship between the 1960's civil rights movement and the women's liberation movement.

Department of Educational Leadership

Professors: J. Baines, E. Bell, S. Chao, A. Geyer, L. Hilton, W. Willis, L. Zappo

Associate Professors: V. Baldassano, J. Mamone, J. Peer, R. Walker

Assistant Professors: J. Gallo, E. Petkus (chairperson)

The Department of Educational Leadership is primarily responsible for the graduate programs in administration and supervision. In addition to the graduate programs, the department offers a B.A. degree in urban education. The department also provides certain courses common to all teacher education programs.

Urban Education and Community Affairs Non-Certification Program for Community Service

Students wishing to pursue careers in community services may, with departmental approval, follow a non-certification program. 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

URED 120	The Human Community	3
URED 200	Introduction to Urban Education	3
URED 301	Community Affairs Seminar and Field Study	6
URED 482	The Inner City Child and His Environment	3

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

URED 209	Violence in the Community	3
URED 210	Drug Use and Abuse	3
URED 304	Education of the Self	3
URED 372	Development and Change in Education	3
URED 420	Urban Issues: Other Minorities	3
URED 480	Ethnic Dance	3
URED 483	Non-Partisan Political Action	3

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

Department of Curriculum and Instruction

Professors: F. Arthur, J. Canino, J. Feeley, T. Gerne, B. Grant, K. Job, G. Vitalone, L. Walter, D. White, S. Wollock

Associate Professors: L. Aitken, P. Buckley, A. Colella, N. D'Ambrosio, M. Dougherty, W. Engels, G. Petine, M. Turkish

Assistant Professors: F. Goldberg, A. Havriliak (chairperson), J. Huber, D. Lauricella, D. Malcolm, J. Rockman, S. Wepner

The Department of Curriculum and Instruction offers teacher education programs which provide teaching expertise and state certification in various academic fields and the performing arts. The curriculum and instruction faculty also provides certain certification courses common to all teacher education programs. A list of majors offered by the College with a list of the corresponding teaching certificates (K through 12) offered by the department follows.

Certification (for all levels)

- Social Studies
- Art
- Science
- Science
- Speech Arts
- English
- French
- Social Studies
- Social Studies
- Mathematics
- Music
- Social Studies
- Social Studies
- Spanish

College Majors

- African and Afro-American Studies
- Art
- Biology
- Chemistry
- Communication
- English
- French
- Geography
- History
- Mathematics
- Music
- Political Science
- Sociology
- Spanish

The Department of Curriculum and Instruction supervises a B.A. in early childhood, a B.A. in elementary education and two graduate degrees. In addition, the department offers an endorsement in reading and library media services. These programs have been approved by the Department of Education as meeting requirements for certification in the State of New Jersey.

Requirements

General Education

All students must complete the general education requirements as prescribed by the College and an academic concentration or major in addition to the teaching major.

Academic Concentration

Students have several options to complete their academic concentration/majors in elementary education and early childhood education. All programs should be developed with a faculty advisor from the department.

Certification Requirements

To be eligible for certification in early childhood education, elementary education or secondary education, students must complete a prescribed teacher education program. This program is an intensive one in the theoretical and practical aspects of teaching that culminates in a full semester internship in a school system. Additional certification requirements are also mandated by the State of New Jersey. Among these is successful performance on the National Teacher Examination.

Students interested in seeking certification in these areas are urged to seek advisement from the department as early as possible in the education program.

Secondary Education

In addition to general education requirements, an academic major, 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 Curriculum and Instruction.

MAJOR REQUIREMENTS		30 credits
SED 290	Secondary Practicum I	1
ELED 310	Educational Psychology	3
SED 325	Classroom Management and Materials	3
SED 351	Field Experience and Seminar: Stratum I	2
RLA 330	Reading Strategies for the Content Area	3
SED 409	Methods in Secondary Education	3
EDUC 415	Internship and Seminar	12
	Directed Elective	3

Courses

Unless otherwise noted, all courses are for 3 credits.

SED 290 Secondary Practicum I

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.

1 credit

SED 351 Field Experience and Seminar: Stratum 1

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.

2 credits

EDUC 415 Internship and Seminar

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.

12 credits

SED 325 Classroom Management and Materials

This course recognizes that effective teachers are also effective classroom managers, that the classroom is a social setting, and that instructional materials involving visual arts contribute to a productive learning environment. The secondary education student will plan, develop, conduct, evaluate and share classroom activities and learning experiences in order to acquire a repertoire of ideas and tactics useful in classroom management.

SED 409 Methods in Secondary Education

This course is designed for those intending to teach secondary school subjects. It gives special attention to the objectives, concepts, methods and materials that are significant in an instructional program for the high school. Forms and procedures for instructional planning (including media, evaluation and materials) are defined, designed, implemented and tested to develop classroom competencies.

EARLY CHILDHOOD EDUCATION

MAJOR REQUIREMENTS 30 credits

EC 190	Introductions to Early Childhood	3
EC 200	Practicum in the Preschool	1
EC 202	Creative Experiences in Early Childhood	2
EC 220	Reading and the Young Child	2
EC 230	Early Childhood Curriculum I	3
EC 300	Practicum in Kindergarten and Primary	2
EC 321	Early Childhood Curriculum II	2
EC 364	Workshop in Reading and Language Arts	3
EDUC 415	Internship and Seminar	12

All students must complete 60 credits of general education courses and 30 credits of an approved academic sequence/major.

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 200 Practicum in Pre-K

In the practicum experience students are assigned to work in preschool centers and, in addition, meet with the practicum coordinator for evaluation and coordination. The experience includes observation, working with individual and small groups of children, assisting the cooperating teachers and teaching planned lessons when appropriate.

1 credit

EC 202 Creative Experiences in Early Childhood

Exploration and discovery in music, visual arts, movement and other expressive media appropriate for young children. Emphasis is on creative activities as modes of perception and integration fundamental to human growth and learning. The student is guided in acquiring knowledge of techniques and materials for fostering aesthetic development in the child.

2 credits

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.

2 credits

EC 221 Early Childhood: 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 230 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.

2 credits

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EC 300 Practicum in Kindergarten and Primary

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.

2 credits

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.

2 credits

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 implementing 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 Language Arts

A study of the development of language arts skills in preschool, kindergarten and primary children with an emphasis on diagnostic-prescriptive teaching of reading. The organization and presentation of appropriate content and the use and interpretation of assessment instruments in listening, speaking, writing and reading are explored and practiced with children of all levels of skills.

EC 405 Early Childhood Internship Seminar

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

ELEMENTARY EDUCATION 30 credits

Major Requirements 14 credits

ELED 320	Strategies for Teaching Language Arts	2
ELED 324	Strategies for Teaching Mathematics	2
ELED 325	Strategies for Teaching Fine Arts	2
ELED 327	Strategies for Teaching Science	2
ELED 328	Strategies for Teaching Social Studies	2
PEED 310	Strategies for Teaching Health and Physical Education	2
RLA 329	Foundations of Reading	2

Field Requirements 16 credits

ELED 103	The Elementary School	2
ELED 401	Practicum in Elementary Education	2
EDUC 415	Internship and Seminar	12

Note: Students who complete all course requirements except the internship and seminar, within the bachelor's program can complete the internship/seminar after graduation and be eligible to apply for certification.

Courses

Unless otherwise noted, all courses are for 3 credits.

ELED 103 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. In addition, classroom management and its relation to curriculum, correlation work in language arts, social studies, science, mathematics, health and physical education and fine and practical arts are also topics of this course.

2 credits

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 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/her learning environment are explored. The course offers an in-depth study of the child from 4-16. An overview of infancy and late adolescence is included.

ELED 310 Educational Psychology

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 Strategies for Teaching Language Arts

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 literature 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.

2 credits

ELED 324 Strategies for Teaching Mathematics

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 Strategies for Teaching Fine Arts

Direct experiences in fine art activities, including objectives and philosophy of fine arts. The developmental stages of children in creative and mental growth are explored.

2 credits

ELED 327 Strategies for Teaching Science

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.

2 credits

ELED 328 Strategies for Teaching Social Studies

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

PEED 310 Strategies for Teaching Health and Physical Education

The roles of physical education and health education are studied in terms of the total elementary school curriculum. Included are philosophy, objectives, activities, strategies and evaluation.

2 credits

ELED 401 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.

Prerequisites: ELED 103

2 credits

EDUC 415 Internship/Seminar in Elementary Education

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. In the accompanying seminar latest trends and developments in elementary education are explored. Problems of classroom management are discussed.

12 credits

READING TEACHER ENDORSEMENT 24 credits

Required Courses 15 credits

Three credits in Foundations

RLA 329	Foundations of Reading	2
EC 220	Reading and the Young Child	2
SPED 304	Teaching Reading to the Mentally Retarded	3

Two of the following:

EC 364	Workshop in Reading and Language Arts	3
RLA 325	Literature for Children and Young Adults	3
RLA 330	Reading Strategies for the Content Areas	3
RLA 425	Reading Practicum	3
RLA 530	Assessing/Improving Reading (graduate course open to eligible seniors)	3

Related Electives 9 credits

Nine additional credits in related areas of child psychology OR tests and measures OR additional courses in reading and/or reading improvement are required.

Recommended: one course in child psychology; one in tests and measures; one elective in either reading or child psychology.

Examples of courses

ELED 210	Growth Processes of the School-Age Child	3
PSY 210	Developmental Psychology	3
PSY 310	Psychological Testing	3
PSY 320	Psychology of Adolescence	3
CSP 410	Educational Testing and Evaluation	3
RLA 325	Literature for Children and Young Adults	3
ELED 320	Strategies for Teaching Language Arts	2

Courses

Unless otherwise noted, all courses are for 3 credits.

RLA 107 Introduction to College Reading

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 325 Literature for Children and Young Adults

A survey of 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 students 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 teachers.

2 credits

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 or she 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 425 Reading Practicum

The application of reading theory. 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.

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ASSOCIATE EDUCATION MEDIA SPECIALIST ENDORSEMENT

21 credits

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 Information Media	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 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

Unless otherwise noted, all courses are for 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

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 young people.

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 Movement Science and Leisure Studies

Professors: T. Jable, S. Silas

Associate Professors: L. Dye, S. Laubach, W. Myers, V. Overdorf (chairperson)

Assistant Professors: S. Becker, P. Huber, J. Manning, A. Raidy

Instructor: F. Flaster

The Department of Movement Science and Leisure Studies offers a major program leading to the bachelor of science degree in movement science, 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 Science 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.

MAJOR REQUIREMENTS 43 credits
Core Courses 29 credits

BIO 118	Topics in Anatomy and Physiology	4
PEAC 150	Introduction to Movement Sciences and Leisure Studies	1
PEAC 251	Standard First Aid and Personal Safety	2
PEAC 252	Cardio-Pulmonary Resuscitation	1
PEAC 254	History and Philosophy of Sport and Physical Activity	3
PEAC 250	Kinesiology	3
PEAC 350	Physiology of Exercise	3
PEAC 352	Adapted Physical Education	3
PEAC 253	Concepts and Principles of Motor Learning	3
PEAC 450	Psycho-Social Dimensions of Movement and Sport	3
PEAC 354	Tests and Measurements	3

Movement Science 14 credits

Performance Skills

PEAK 156	Movement Science Performance Skills I	2
PEAK 157	Movement Science Performance Skills II	2
PEAK 256	Movement Science Performance Skills III	2
PEAK 257	Movement Science Performance Skills IV	2
PEAK 356	Movement Science Performance Skills V	2
PEAK 357	Movement Science Performance Skills VI	2
PEAK 456	Movement Science Performance Skills VII	2

Concentrations for Majors in Movement Science

PHYSICAL EDUCATION 30 credits
CERTIFICATION REQUIREMENTS* (K-12)

PSY 210	Developmental Psychology	3
or		
ELED 210	Growth Processes of the School-Age Child	3
PETC 395	Curriculum and Teaching Physical Education in the Elementary School	3
PETC 396	Curriculum and Teaching Physical Education in the Secondary School	3
PETC 397	Practicum I	1
PETC 398	Practicum II	1
PETC 495	Seminar in Physical Education	1
EDUC 415	Senior Teaching Internship	12
RLA 330	Reading Strategies for the Content Areas	3
AAAS 150	Racism/Sexism in Changing America	3

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. 40 for additional certification requirements. Those seeking certification are required to take the national teachers exam in physical education during their last semester.

PEAC 253	Concepts and Principles of Motor Learning	3
PEAC 450	Psycho-Social Dimensions of Movement and Sport	4
PEAC 354	Tests and Measurements	3

*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.

BIO 170	Basic Microbiology	3
BIO 302	Basic Genetics	3
HSC 200	Consumer Health	3
HSC 300	Community Health	3
HSC 320	Nutrition	3
HSC 351	Methods and Curriculum in School and Community Health Education	3
HSC 490	Human Sexuality	3
SOC 120	Marriage and the Family	3

ADAPTED PHYSICAL EDUCATION 15 credits

All course prerequisites must be fulfilled.

PEDA 360	Physical Education for the Orthopedically Handicapped	3
PEDA 362	Physical Education for the Mentally Retarded	3
PERE 390	Introduction to Therapeutic Recreation	3
PEDA 460	Physical Education for the Perceptually Impaired and/or Emotionally Disturbed	3
PEDA 462	Exercise Programs for Older Adults	3

ATHLETIC TRAINING*† 23 credits

All course prerequisites must be fulfilled.

HSC 320	Nutrition	3
PEAC 251	Standard First Aid and Personal Safety	2
PEAC 252	Cardio-Pulmonary Resuscitation	1
PEAT 267	Prevention and Care of Athletic Injuries	3
PEDA 360	Physical Education for the Orthopedically Handicapped	3
PEAT 368	Athletic Training Modalities	2
PEAT 369	Biomechanics of Athletic Injuries	2
PEAT 367	Advanced Athletic Training	3
PEAT 467	Field Work in Athletic Training	2
PEAT 468	Seminar in Athletic Training	2

*Teacher certification is recommended in the state of New Jersey to assist in obtaining a job. Licensure in the state of New Jersey is required.

†The Athletic Training program is accredited by the national governing board of the National Athletic Trainers Association.

DANCE 18 credits

(Also offered as a minor open to all students)

PEDN 280	Modern Dance I	2
PEDN 281	Modern Dance II	2
PEDN 283	Ballet I	2
PEDN 284	Ballet II	2
PEDN 380	Choreography	3
PEDN 381	Advanced Choreography and Dance Production	3
PEDN 376	Dance Performance Workshop I (registration by audition only)	2
	Electives	2

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 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.

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EXERCISE PHYSIOLOGY			15 credits
HSC 320	Nutrition		3
PEAC 251	Standard First Aid and Personal Safety		2
PEAC 252	Cardio-Pulmonary Resuscitation		1
PPEP 388	Leadership Training for Exercise Programs		3
PEEP 386	Graded Exercise, Testing and Prescription		3
PEEP 484	Internship I in Exercise Physiology		1
PEEP 485	Internship II in Exercise Physiology		1
PEEP 486	Internship III in Exercise Physiology		1

Note: Upon completing this concentration, students are eligible to take the certification test given by the YMCA or the American College of Sports Medicine.

RECREATION AND LEISURE STUDIES			18 credits
(Also offered as a minor open to all students)			
PERE 290	Foundations and Programs in Recreation		3
PERE 294	Camp Counseling		3
PERE 292	Recreational Leadership		3
PERE 390	Introduction to Therapeutic Recreation		3
PERE 490	Organization and Administration of Recreation Programs		3
PERE 491	Field Work in Recreation		3

COACHING AND OFFICIATING			12 credits
PEAT 267	Prevention and Care of Athletic Injuries		3
PECO 476	Organization and Administration of Athletics		3
Plus 6 credits from among the following:			
PECO 472	Coaching and Officiating Swimming		2
PECO 475	Coaching and Officiating Track and Field		2
PECO 474	Coaching and Officiating Tennis		2
PECO 473	Coaching and Officiating Wrestling		2
PECO 372	Coaching and Officiating Soccer		2
PECO 370	Coaching and Officiating Field Hockey		2
PECO 373	Coaching and Officiating Basketball		2
PECO 470	Coaching and Officiating Football		2
PECO 374	Coaching and Officiating Baseball (Softball)		2
PECO 371	Coaching and Officiating Volleyball		2
PECO 471	Coaching and Officiating Gymnastics		2

AQUATICS			12 credits
PEEL 221	Basic Skin and Scuba Diving		2
PEAQ 263	Advanced Life Saving		2
PEAQ 265	Water Safety Instructor		2
PEAQ 363	Administering and Conducting Recreational Water Activities and Programs		2
PEAQ 463	Pool Management		2
PECO 472	Coaching and Officiating Swimming		2

MINOR REQUIREMENTS

All course prerequisites must be met before admission to minor concentrations. Please see advisors for appropriate prerequisites.

MOVEMENT SCIENCE

The following courses are open to all students. These courses are designed to allow students to acquire skills in sports and dance.

PEEL 109	Combatives		2
PEEL 200	Target Archery		2
PEEL 201	Badminton		2
PEEL 202	Bowling & Team Handball		2
PEEL 203	Golf		2
PEEL 204	Tennis I		2
PEEL 205	Tennis II		2
PEEL 206	Fencing		2
PEEL 207	Volleyball		2
PEEL 209	Karate I		2
PEEL 210	Karate II		2
PEEL 211	Judo		2
PEEL 212	Afro-Caribbean Dance		2
PEEL 213	Folk, Square and Ballroom Dance I		1
PEEL 214	Folk, Square and Ballroom Dance II		1
PEEL 215	Movement Skill Development		2
PEEL 216	Personal Fitness		2
PEEL 217	Horseback Riding		2
PEEL 218	Jogging and Orienteering		2
PEEL 219	Backpacking		2
PEEL 220	Cycling		2
PEEL 221	Basic Skin and Scuba Diving		2
PEEL 222	Racquetball		2
PEEL 223	Aerobics		2

Courses

Unless otherwise noted, all courses are for 3 credits.

PEAC 150 Introduction to Movement Science and Leisure Studies

Familiarizes the student with the movement science and leisure studies program; possible careers that require knowledge about movement science and leisure studies. Students visit various professional sites in the field.
1 credit.

PEAC 250 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

PEAC 251 Standard First Aid and Personal Safety

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

PEAC 252 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

PEAC 253 Concepts and Principles of Motor Learning

Acquaints the student with the concepts and principles involved in motor learning; in particular, the implications for teaching are considered.
Prerequisite: BIO 118

PEAC 254 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.

PEAC 350 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, PEAC 250

PEAC 352 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

PEAC 354 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.

PEAC 450 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

PEAK 156 Physical Education Performance Skills I

Introduction to skill development and basic concepts: soccer, speedball, field hockey, basketball, folk dance.

2 credits

PEAK 157 Physical Education Performance Skills II

Introduction to skill development and basic concepts: volleyball, square dance, ballroom dancing, softball, track and field.

2 credits

PEAK 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

PEAK 256 Movement Science Performance Skills III

Introduction to skill development and basic concepts: football, lacrosse, conditioning, tumbling.

2 credits

PEAK 257 Movement Science Performance Skills IV

Introduction to skill development and basic concepts: gymnastics, tennis, golf.

2 credits

PEAK 356 Movement Science Performance Skills V

Introduction to skill development and basic concepts: modern dance, badminton, wrestling, self-defense.

2 credits

PEAK 357 Movement Science Performance Skills VI

Introduction to skill development and basic concepts: racquetball, swimming, archery, orienteering, new games.

2 credits

PEAK 456 Movement Science Performance Skills VII

Introduction to skill development concepts: fencing, bowling, team handball, recreational games, outdoor education.

2 credits

PEAQ 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

PEAQ 263 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: PEAQ 204 or permission of the instructor

2 credits

PEAQ 265 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: PEAQ 263

2 credits

PEAQ 363 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

PEAQ 463 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

PEAT 267 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, PEAC 250

PEAT 367 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.

Prerequisites: PEAT 267, 368, HSC 320

PEAT 368 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: PEAT 367

2 credits

PEAT 369 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: PEAT 368

2 credits

PEAT 467 Field Work 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 and fitting of orthotics. Minimum of 200 hours.

Prerequisite: PEAT 369

2 credits

PEAT 468 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.

Prerequisite: PEAT 467

2 credits

WILLIAM PATERSON COLLEGE

PECO 370 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: PEAK 156 or permission of the instructor
2 credits

PECO 371 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 techniques.

Prerequisite: PEAK 157 or permission of the instructor
2 credits

PECO 372 Coaching and Officiating Soccer

Techniques and principles of coaching and officiating soccer. Laboratory experiences are provided for officiating and coaching.

Prerequisite: PEAK 156 or permission of the instructor
2 credits

PECO 373 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: PEAK 156 or permission of the instructor
2 credits

PECO 374 Coaching and Officiating Softball

Techniques and principles of coaching and officiating softball are emphasized along with laboratory experience for officiating and coaching.

Prerequisite: PEAK 157 or permission of the instructor
2 credits

PECO 375 Coaching and Officiating Baseball

Techniques of coaching, officiating, purchase and care of equipment and playing areas are emphasized.

Prerequisite: PEAK 157 or permission of the instructor
2 credits

PECO 470 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: PEAK 256 or permission of the instructor
2 credits

PECO 471 Coaching and Officiating Gymnastics

Intended for the future coach and/or judge in gymnastics. Film analyses and judging tests are offered.

Prerequisite: PEAK 257 or permission of the instructor
2 credits

PECO 472 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: PEAK 204 or permission of the instructor
2 credits

PECO 473 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: PEAK 356 or permission of the instructor
2 credits

PECO 474 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: PEAK 257 or permission of the instructor
2 credits

PECO 476 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.

PEDA 360 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: PEAC 352

PEDA 362 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: PEAC 352

PEDA 460 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: PEAC 352

PEDA 462 Exercise Programs for Older Adults

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.

PEDN 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.

PEDN 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.

PEDN 280 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-Weldman-Limon School of modern dance.
2 credits

PEDN 281 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

PEDN 283 Ballet I

Theory and performing techniques of classical ballet at the beginning level. Based on the Royal Academy of Dancing system of training.
2 credits

PEDN 284 Ballet II

Theory and performing techniques of classical ballet at the advanced-beginner level. Based on the Royal Academy of Dancing syllabus.
2 credits

PEDN 288 Modern Jazz Dance Technique

Theory and performance of modern jazz dance technique.
2 credits

PEDN 289 Beginning Tap Dance

A basic course in theory and practice of tap dance, an American art form.
2 credits

PEDN 371 Teaching Dance

Prepares students to teach dance classes in schools and recreational organizations. Deals with the "how" and "why" of dance movement.
Prerequisite: PEDN 280 or 380 or permission of the instructor
2 credits

PEDN 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

PEDN 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: PEDN 376
2 credits

PEDN 380 Choreography

Dance composition on a beginning level for teachers, recreation leaders and performers.
Prerequisite: Four credits in modern dance and/or ballet

PEDN 381 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: PEDN 380

PEDN 473 Labanotation

Reading and dancing repertory from Labanotation scores. Helps students understand movement, improve performing ability, provide written and spoken terminology.
Prerequisites: PEDN 280, 283

PEED 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.

PEED 311 Movement Education

A different approach toward teaching where a more individualized program is set up with 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

PEEL 250 Personal Movement Analysis

Analysis and application of Laban effort-shape theory through movement, experience and observation.

PEEP 386 Graded Exercise Testing and Exercise Prescription

Theoretical information about the administration and application of a graded exercise stress test.

PEEP 388 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.

PEEP 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.

PEEP 484 Internship I in Exercise Physiology

Practical information about the administration and application of a graded exercise stress test and an exercise prescription.
Prerequisite: PEAC 350
1 credit

PEEP 485 Internship II in Exercise Physiology

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: PEAC 350
1 credit

PEEP 486 Internship III in Exercise Physiology

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: PEAC 350
1 credit

PEGE 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 program.

PERE 290 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.

PERE 292 Recreational Leadership

A study of methods, materials and skills necessary for persons preparing to assume leadership roles in recreational programs.

PERE 293 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.

PERE 294 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.

PERE 305 Community Recreation

A study of community recreation with emphasis on history, theory and philosophy; governmental involvement; other social institutions; current principles and practices.

PERE 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.

PERE 390 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.

PERE 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.

PERE 490 Organization and Administration of Recreation Programs

The exploration of major problems and practices in the organization and administration of recreational programs in various settings.

PERE 491 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.

PETC 395 Curriculum and Teaching Physical Education in the Elementary 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 PETC 397.

Prerequisite: Admission to teacher certification program.

PETC 396 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 PETC 398.

Prerequisite: Admission to teacher certification program.

PETC 397 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 PETC 395.

Prerequisite: Admission to teacher certification program.

PETC 398 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 PETC 396.

Prerequisite: PETC 397

1 credit

Department of Special Education and Pupil Personnel Services

Professors—L. Hayes, L. Hummel, R. Klein, L. Stoia, M. Swack (chairperson), W. Younie

Associate Professors—E. Abare, S. Kuveke

Assistant Professor—M. Goldstein

The Department of Special Education offers intensive specialized study leading to a bachelor of arts degree in special education. 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.

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 prior to matriculation. Students do not receive academic credit for this requirement.

Two practica, SPED 200 and SPED 320, are required of all majors in their sophomore and junior years. These practica afford 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 Experiences or the Department of Special Education may be contacted for further information.

All general education requirements must be met.

MAJOR REQUIREMENTS 36 credits

SPED 201	Psychology and Education 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 410	Counseling and Vocational Guidance for Handicapped Children	3
SPED 411	Prescriptive Teaching	3
SPED 412	Education of the Emotionally and Socially Maladjusted	3
SPED 413	Education of the Neurologically Impaired and Physically Handicapped	3
PATH 261	Speech Disorders	3
PSY 110	General Psychology	3
SOC 110	Principles of Sociology	3
PEAC 352	Adapted Physical Education	3

PROFESSIONAL SEQUENCE 30 credits

A. Field Experience 16 credits

SPED 200	Pre-Practicum Special Education	2
SPED 320	Practicum in Special Education	2
EDUC 415	Student Teaching	12

B. Professional Sequence 14 credits

ELED 320	Strategies for Teaching Language Arts	2
ELED 310	Educational Psychology	3
CSP 410	Educational Testing	3
SPED 304	Teaching Reading to the Mentally Retarded	3
SPED 411	Prescriptive Teaching	3

SPECIAL EDUCATION CONCENTRATION 21 credits

This course sequence is for students in another major who wish to take courses in special education.

SPED 201	Psychology and Education 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 Vocational Guidance for Handicapped Children	3
SPED 411	Prescriptive Teaching	3

Courses

Unless otherwise noted, all courses are for 3 credits.

SPED 200 Pre-Practicum in Special Education

Students who plan to take SPED 201 **Psychology and Education of the Handicapped** must apply for the Pre-Practicum or "First Practicum" in special education. One full day per week is required for field work so students should plan their schedules carefully. Students may request a particular location, but this cannot be guaranteed. 2 credits

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 majors.

SPED 205 Early Childhood Curriculum for Handicapped Children

An in-depth study of the characteristics and needs of 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 II

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 included. 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 one-day per week practicum in a special education classroom of a participating school is included. Prerequisite: SPED 201; corequisite: SPED 302

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 SPED 303. Prerequisites: SPED 200 and 302; corequisite: SPED 303

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 uses are stressed. Open to 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. Open to 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 program." Information relating to this program is provided in a bulletin available from the department. The program may not be offered every semester. Open to 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. Open to seniors only

WILLIAM PATERSON COLLEGE

SPED 430 Education of the Exceptional Child

Planning and organizing instructional materials and activities. The use of environmental resources in working with mentally, physically or emotionally exceptional children. The adaptation of programs to the needs of exceptional children in regular classes and in special groups. For non-special education majors.

SPED 499 Independent Study

As approved and to be arranged
1-3 credits

ASSOCIATE EDUCATION MEDIA SPECIALIST ENDORSEMENT 21 credits

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 Information Media	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 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

Unless otherwise noted, all courses are for 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

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 young people.

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

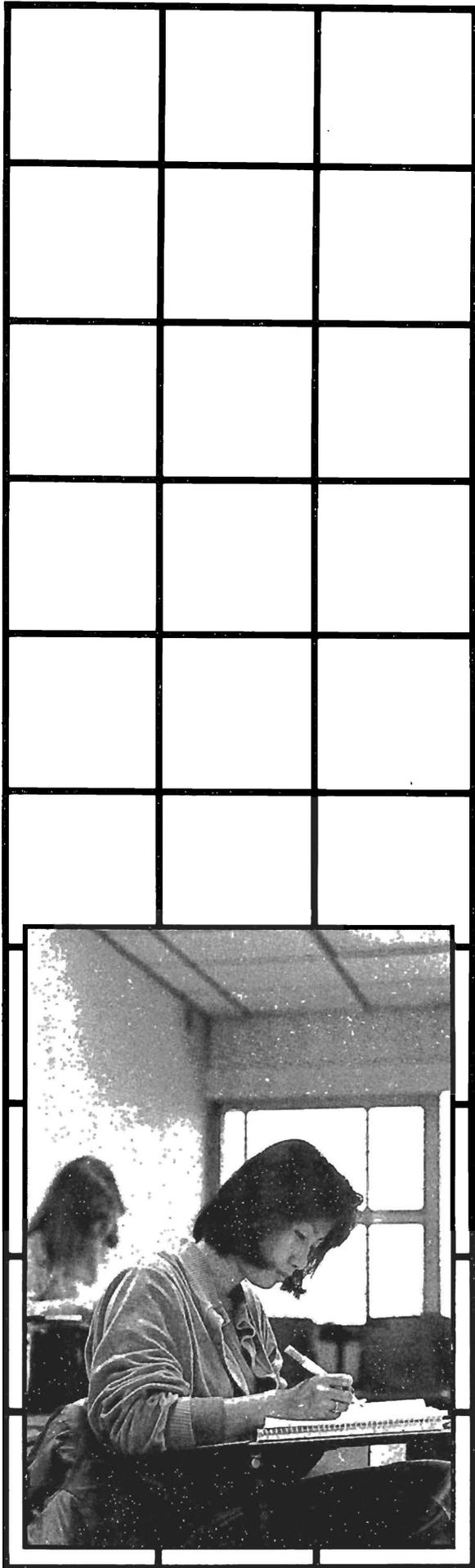
LMS 401 Preparation of Media Materials

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



**THE
SCHOOL
OF
HEALTH PROFESSIONS
AND
NURSING**

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 and school health education, nursing and speech pathology.

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, M. Marshall
Associate Professor: A. Hudis
Assistant Professors: L. Carter, J. Levitan, (chairperson), P. Williams
Instructors: K. Gelmacher, K. Mondrone, D. Watter

The Department of Health Science offers a major program leading to a bachelor of science degree in community and 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.

MAJOR REQUIREMENTS		45 credits
HSC 200	Consumer Health	3
HSC 300	Community Health	3
HSC 310	Health Care Systems	3
HSC 315	Human Diseases	3
HSC 320	Nutrition	3
HSC 330	Human Behavior and Health Counseling	3
HSC 351	Methods and Curriculum in School and Community Health Education	3
HSC 361	Research Analysis and Evaluation in Health	3
HSC 400	Epidemiology	3
HSC 450	Health Administration	3
HSC 490	Human Sexuality	3
HSC 491	Drugs and Health	3
HSC 497	Field Work in Community Health	8
HSC 498	Seminar in Community Health	1

COREQUISITES		24 credits
BIO 112	General Anatomy and Physiology I	4
BIO 113	General Anatomy and Physiology II	4
BIO 170	Basic Microbiology	4
BIO 302	Human Genetics	3
MATH 130	Elementary Statistics	3
PSY 110	General Psychology	3
PSY 210	Developmental Psychology	3

TEACHER CERTIFICATION REQUIREMENTS		27 credits
EDUC 333	Individualized Instruction	3
EDUC 403	Culminating Field Experience	8
HSC 321	Nutrition in Early Childhood (in lieu of HSC 320)	3
HSC 404	Seminar	1
LMS 323	Modern Educational Media	3
RLA 329	Foundations of Reading	3
RLA 330	Reading Strategies for the Content Areas	3
URED 482	The Inner-City Child and His Environment	3

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 self-defense.

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 organizations, finance and delivery of health services.

HSC 315 Human Diseases

The physical and social determinants of the major diseases affecting U.S. citizens, especially New Jersey residents. Prevention measures and symptomatology, sequelae 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, nutrition or permission of the instructor

HSC 330 Human Behavior and Health Counseling

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 their 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.

Prerequisites: 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, 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.

1 credit

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 Drugs and Health

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 or her knowledge and to test organizational theory in the working environment. Taken concurrently 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 concurrently 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 (chairperson)

Associate Professors: C. Barry, A. Cerchio, S. De Young, H. Hakerem, G. Just, H.D. Maciorowski, L. Nield

Assistant Professors: B. Barba, A. Berkery, D. Carp, K. Connolly, J. Cuddihy, D. D'Amico, I. Foti, J. Leonard, K. MacMillan, M. McElgunn, O. Sobolak

Instructors: C. Barbarito, E. Suraci

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 various 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 general education courses. Graduates of this program are awarded a bachelor of science degree with a major in nursing. Upon completion of the program, graduates are eligible to take the National Council Licensure Examination (NCLEX) 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 and application 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, control 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 (SAT), as well as place in the upper 1/3 of their high school graduating class.

Students can be admitted to the program as freshmen or as transfers prior to the 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 and 210 (with grades of 'C' or better) before being permitted to begin the Adaptation Nursing sequence of courses.

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 further information, registered nurse students should address inquiries to the RN Coordinator, Department of Nursing.

WILLIAM PATERSON COLLEGE

Any student seeking information regarding the recommended sequence of courses in the nursing major should contact the Academic Information Center in Raubinger Hall and request a copy of the curriculum control sheet for nursing majors.

The Nursing Department conducts 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 grade of "C" or better are evaluated for retention/progression in the nursing major.

MAJOR COURSES 52 credits

NUR 210	Nursing as a Profession	3
NUR 212	Adaptation Nursing I	3
NUR 214	Adaptation Nursing I Laboratory	2
NUR 213	Adaptation Nursing II	3
NUR 215	Adaptation Nursing II Laboratory	2
NUR 310	Family Systems and Adaptation I	2
NUR 312	Expanding Family and Adaptation Nursing	3
NUR 314	Expanding Family and Adaptation Nursing Laboratory	4
NUR 313	Established Family and Adaptation Nursing	3
NUR 315	Established Family and Adaptation Nursing Laboratory	4
NUR 311	Family Systems and Adaptation II	2
NUR 410	Community Systems	2
NUR 412	Adaptation in the Community	3
NUR 414	Adaptation in the Community Laboratory	4
NUR 450	Nursing Research	3
NUR 411	Professional Practice Theory	3
NUR 413	Professional Clinical Practice I	3
NUR 415	Professional Clinical Practice II	2
NUR 416	Senior Seminar	1

COREQUISITE COURSES* 39 credits

PSY 110	General Psychology	3
PSY 210	Developmental Psychology	3
BIO 112	General Anatomy and Physiology I	4
BIO 113	General Anatomy and Physiology II	4
BIO 170	Basic Microbiology	4
CHEM 164	College Chemistry	3
CHEM 064	College Chemistry Laboratory	1
HSC 320	Nutrition	3
CHEM 165	Organic Biochemistry	3
CHEM 065	Organic Biochemistry Laboratory	1
MATH 130	Elementary Statistics	3
BIO 302	Human Genetics	3
BIO 312	Advanced Anatomy and Physiology	4

*NOTE: Degree requirements not listed (36 credits) include additional general education courses (see page 15).

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 and health problems within a holistic model of man. Prerequisites: BIO 113, 117, PSY 210

NUR 214 Adaptation Nursing I Laboratory

Building on theory presented in NUR 212 and laboratory content, 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, 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 is the focus. Concepts of secondary and tertiary prevention and their application to the health-illness continuum are introduced, along with leadership and group process skills. Prerequisites: NUR 210, 212, 214.

NUR 215 Adaptation Nursing II Laboratory

Building on class theory from NUR 213, students practice in a clinical setting which provides for care of the client experiencing physical health problems, as well as the opportunity to practice basic group strategies. Prerequisites: NUR 212, 214

Taken concurrently with NUR 213
2 credits, 6 laboratory hours

NUR 309 Application of Basic Nursing Skills

This elective laboratory course gives the beginning nursing student an opportunity to improve upon fundamental nursing skills. Emphasis is placed on nursing care for the sick adult, with concentration of underlying principles and rationale for all actions. Skill focus includes personal hygiene, nutrition, vital signs, body mechanics, exercise and rest. Practice of skills begins in the Learning Center; supervision in a clinical setting follows. 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 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 family are included and physiological adaptation is emphasized. Prerequisites: NUR 213, 215, CHEM 165, 065

NUR 313 Established Family and Adaptation Nursing

This course studies adaptation by the adult to various stressors/stimuli affecting the attainment of adaptive goals by members of established and maturing family units. Altered physiologic functioning and the associated psychosocial responses provide the focus for the study of adults and their health status. Prerequisites: NUR 213, 215, CHEM 165, 065

NUR 314 Expanding Family and Adaptation Nursing Laboratory

This 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, infants, children and adolescents.

Prerequisites: NUR 213, 215, CHEM 165, 065
Taken concurrently with NUR 312 and NUR 310 or 311

4 credits, 12 laboratory hours

NUR 315 Established Family and Adaptation Nursing Laboratory

This 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 and BIO 312

4 credits, 12 laboratory hours

NUR 410 Community Systems

Focuses on the 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 312, NUR 311, 312, 313, 314, 315

Taken concurrently with NUR 412, 414
2 credits

NUR 411 Professional Clinical 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 socio-cultural and economic forces affecting the nursing profession within the health care delivery system and the resulting political and legal processes. Prerequisites: NUR 410, 412, 414, 450

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 psycho-social theories contributing to ineffective self-concept behaviors and the definition and re-definition of roles are studied. Prerequisites: BIO 312, NUR 311, 312, 313, 314, 315

Taken concurrently with NUR 410

NUR 413 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, 414, 415

Taken concurrently with NUR 411
3 credits, 9 laboratory hours

NUR 414 Adaptation in the Community Laboratory

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 is geared to a client population with significant alterations who require assistance to achieve an optimal level of wellness. Prerequisites: BIO 312, NUR 311, 312, 313, 314, 315

Taken concurrently with NUR 410, 412
4 credits, 12 laboratory hours

NUR 415 Professional Clinical Practice II (Care of Groups) 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, 414, 450

Taken concurrently with NUR 411, 413
2 credits, 6 laboratory hours

NUR 416 Senior Seminar

Students examine and present selected current professional issues in nursing. Spring semester

Prerequisites: NUR 410, 412, 414, 450
Taken concurrently with NUR 411
1 credit

NUR 450 Nursing Research

Designed to help the student understand and utilize research concepts and methods by developing the student's ability to analyze, criticize and interpret research. Students critique a published research study and conduct group research projects. Fall semester, senior year
Prerequisites: MATH 130 and completion of 300-level nursing courses

NUR 451 Concepts of Nursing Administration

Designed to assist the professional nurse in utilizing current management theory and strategy to investigate and approach the unique issues and problems in nursing health care management. The focus of the course proceeds from identifying the individual and his/her personal leadership style, to the group and effective team building to the organization and its strategies for unifying the entire system. Throughout, the learner can apply findings to his/her own nursing leadership experience. Potential conflict areas in health care management are identified as they impact on the nurse manager's role and responsibilities.

Prerequisite: Taken concurrently with NUR 411, or with the permission of the instructor

Department of Communication Disorders

Professor: F. Cohen

Associate Professor: E. Chopek

Assistant Professors: J. Hsu (chairperson), A. Oratio, G. Walsh

The undergraduate program leading to a bachelor of arts in speech pathology requires that students complete 60 credits of general education courses and 39 credits in the major. If a student wishes to seek N.J. certification to teach in the public schools, 31 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 with prior approval.

MAJOR REQUIREMENTS		39 credits
CODS 160	Phonetics	3
CODS 161	The Nature of Speech, Language and Communication Systems	3
CODS 205	Speech Laboratory I (Observation)	3
CODS 262	Orientation to Speech Pathology and Audiology	3
CODS 263	Articulation Disorders	3
CODS 302	Speech Laboratory Continued (1 credit each semester)	3
CODS 361	Anatomy and Physiology of the Auditory and Vocal Mechanism	3
CODS 363	Introduction to Audiology	3
CODS 365	Voice Disorders in Children	3
CODS 366	Language Theory and Therapy	3
CODS 462	Auditory Rehabilitation	3
CODS 463	Stuttering and Other Rhythm Disorders	3
SPED 201	Psychology and Education of the Handicapped	3

STATE CERTIFICATION (SPEECH PATHOLOGY) REQUIREMENTS*		31 credits
EDUC 403	Culminating Field Experience	12
ELED 310	Educational Psychology	3
HSC 120	Current Health Issues	3
CODS 404	Seminar in Student Teaching	1
CODS 425	Teaching Speech	3
CODS 426	Organizing Speech and Hearing Programs	3
PSY 110	General Psychology	3
Plus:		
SED 381	Educational Sociology	3
or		
SED 432	Human Adaptation	3

*A major and overall grade point average of 2.5 is required for those students planning to apply for certification.

Courses

Unless otherwise noted, all courses are for 3 credits.

CODS 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.

CODS 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.

CODS 162 Basic Speech Skills

Enables students to develop maximum vocal and articulatory output, control the speech mechanism, eliminate regional accents; explore the impact of dialectical differences that impair communication.

CODS 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 CODS 263.

Prerequisite: CODS 263

CODS 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.

CODS 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 is included.

CODS 263 Articulation Disorders

A study of the normal acquisition and development of articulation and of etiologies, evaluation and therapy procedures for articulation disorders.

Prerequisite: CODS 262

CODS 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: CODS 205

CODS 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: BIO 120

CODS 363 Introduction to Audiology

Pathologies of the auditory system and basic tests used in the identification and diagnosis of hearing loss: pure tone air-and-bone-conduction audiometry, principles of masking and speech audiometry. Implementation of school hearing conservation programs.

Prerequisite: CODS 361

CODS 365 Voice Disorders in Children

Functional and organic voice disorders in children. Etiology, classification, methods of diagnosis and evaluation, therapy methods and techniques.

Prerequisite: CODS 361

CODS 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: CODS 161

CODS 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.

CODS 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: CODS 367

CODS 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.

CODS 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 classroom curriculum needs are reviewed and discussed. Special attention is given to materials used with school-age children who have speech and language problems.

CODS 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: CODS 425

CODS 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 habilitation and/or rehabilitation including auditory training, speech-reading and selection and use of appropriate amplification systems.

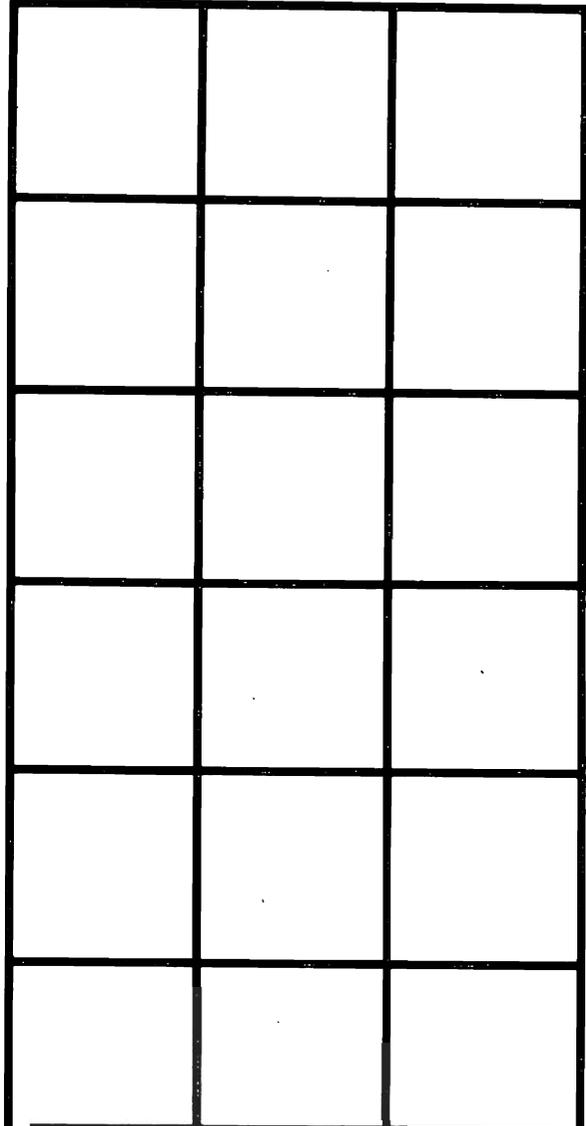
Prerequisite: CODS 363

CODS 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.

CODS 499 Independent Study

As approved and to be arranged.
1-3 credits



**THE
SCHOOL
OF
HUMANITIES**

The School of Humanities

Richard Atnally, Dean
Office: Matelson Hall 362

The School of Humanities offers bachelor of arts degrees in black studies, English, French, Spanish, history, philosophy and liberal studies as well as an endorsement program in bilingual/bicultural education.

These majors are designed for students interested either in pursuing a specific professional career, such as law, teaching or administration, or in developing a solid foundation to support future vocational choices. Many non-majors broaden their thinking, reading and writing skills by taking upper-level electives in these areas.

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 the superior 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.

The Humanities Honor Program is taken in addition to the student's major and is usually started in the freshman or sophomore year. A 3.0 minimum GPA is required for admission; special coordinators are available for advisement and supervision.

HONORS COURSES		15 credits
HUMH 199	Humanities Honors Seminar I: Representations of Humanity Past and Present	3
HUMH 200	Humanities Honors Seminar II: Representations of Humanity Past and Present	3
HUMH 498	Humanities Honors Research: Independent Study	3
HUMH 499	Humanities Honors Thesis: Independent Study	3

Plus one of the following:		
HUMH 300	Humanities Honors Colloquium: The Twentieth 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 Christian Civilization	3

Humanities Honors Evening Program

Evening sections of the honors program have been created in order to better meet the interests and needs of working 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 COURSES 15 credits

HUMH 201	Humanities Honors Seminar III: Representations of Humanities in the World of Work Today	3
HUMH 202	Humanities Honors Seminar IV: Representations of Humanities Through Historical Perspectives	3
HUMH 498	Humanities Honors Research: Independent Study	3
HUMH 499	Humanities Honors Thesis: Independent Study	3
Plus one of the following:		
HUMH 300	Humanities Honors Colloquium: The Twentieth 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 Christian Civilization	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, Chaucer. 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., Shakespeare, Cervantes, 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.

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 comparing individual thought and expression and social organization with our modern 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 the classical world to the Renaissance.

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 the Renaissance to the modern world.

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 a special 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 (chairperson)

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.

MAJOR REQUIREMENTS 36 credits

Required Course 3 credits

AAAS 100 Introduction to African and Afro-American Studies 3

Plus 33 additional credits chosen from among the following areas as indicated:

Historical—three courses 9 credits required.

AAAS 201 African History 3
AAAS 240 Afro-Caribbean History 3
AAAS 241 Afro-American History to 1865 3
AAAS 242 Afro-American History Since 1865 3
AAAS 310 Recent Interpretations in Afro-American Studies 3
AAAS 315 Afro-American Background for Teachers 3

Socio-Psychological—two courses required. 6 credits

AAAS 131 Afro-American Social Thought 3
AAAS 150 Racism and Sexism in a Changing America 3
AAAS 155 Perspectives on Justice and Racism: The Afro-American Experience 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 243 The Black Family 3
AAAS 255 The Black Woman Experience 3

WILLIAM PATERSON COLLEGE

AAAS 258	Black Psychology	3
AAAS 260	The Black Church	3

Political—two courses required. 6 credits

AAAS 130	Black Politics	3
AAAS 205	Pan-Africanism and the Black Experience	3
AAAS 208	Blacks and the Criminal Justice System in the United States	3
AAAS 238	African Politics	3

Humanities and the Fine Arts— 6 credits 2 courses required.

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
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	Intermediate Swahili	3
AAAS 311	African Literature	3

Economics and Community Development—two courses required. 6 credits

AAAS 220	Career Guidance	3
AAAS 245	Problems and Practices of Ethnic Markets	3
AAAS 280	Minority Enterprises	3
AAAS 299	Student Community Service	3

MINOR REQUIREMENTS 18 credits

AAAS 100	Introduction to African and Afro-American Studies	3
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Plus 3 credits from each of the above concentrations, 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 PEEL 212)

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 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 150 Racism and Sexism in a Changing America

A study of the historical, philosophical, social and political treatments and interpretations of blacks and women in the United States of America. Selected topics include media stereotypes of blacks and women; definitions and rationalizations of racism and sexism; the role that blacks and women have played in U.S. history; the relationship between the nineteenth century abolitionist movement and the early feminist movement; the relationship between the 1960's civil rights movement and the women's liberation movement.

AAAS 155 Perspectives on Justice and Racism: The Afro-American Experience

An examination of the concepts of race, racism and ethnicity and the psycho-social causes and effects of bias and prejudice in general and in the Afro-American experience in particular. Seminal findings of leading social scientists are reviewed. Through a study of the slave trade movement in the eighteenth and nineteenth centuries, the civil rights movement of the 1960's, the struggle of American minority groups for improved social status, and a survey of selected Afro-American literature and music, students learn how racism and all manifestations of social injustice hinder and undermine the welfare of both the oppressed and the oppressor. Several viable solutions to racism and social injustice are proposed.

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 administration 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, evolution 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 evolution 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 241 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 242 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 243 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 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 (chairperson), M. Davidow, E. DeGroot, D. Duclos, R. Jaarsma, R. Kloss, F. Manno, A. Mazzella, V. Mollenkott, S. Wertheim

Associate Professors—D. Edwards, S. Hand, J. Hauser, J. Hoban, J. Jordan, S. Kistler, S. McNamara, S. Radner, R. Rosen, D. Thomas

Assistant Professors—C. Edinger, S. Hahn, L. Hamalian, J. Hartman, L. Lyles, D. Perry

The English Department offers a major program in literature and a major with a 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 110, **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.*

ENGLISH MAJOR 30 credits REQUIREMENTS

Choose five of the following "survey" courses:

ENG 301	English Literature through the Neoclassical Period	3
ENG 302	English Literature: Romantic through Modern	3
ENG 303	American Literature to 1865	3
ENG 304	American Literature 1865-1914	3
ENG 305	Literature of Western Europe: To the Renaissance	3

*In the event that a student must complete Basic Skills requirements or does not take **Writing Effective Prose** until the sophomore year, special opportunities will be granted for completion of the sequence in a timely fashion.

ENG 306	Literature of Western Europe: Renaissance through Modern	3
Choose two "period" courses, one of which must be before 1900:		

Before 1900		
ENG 310	Elizabethan and Jacobean Drama	3
ENG 311	Literature of the English Renaissance	3
ENG 312	Donne, Jonson and Their Contemporaries	3
ENG 313	The Age of Dryden, Pope and Swift	3
ENG 314	The Age of Johnson	3
ENG 315	Romantic Movement in England	3
ENG 316	Literature and Culture of the Victorians	3
ENG 320	The English Novel: Defoe to Austen	3
ENG 321	The English Novel: Dickens to Hardy	3
ENG 322	Nineteenth-Century European Novel	3

After 1900		
ENG 211	Modern Drama	3
ENG 317	Modern American Literature	3
ENG 318	Modern British Literature	3
ENG 319	Modern British and American Poetry	3
ENG 323	Twentieth-Century European Novel	3
ENG 340	Contemporary Literature	3

Choose one writing course:		
ENG 330	Critical Writing	3
ENG 331	Creative Writing	3
COMM 250	Journalism	3

Choose one language course:		
ENG 401	Linguistics and Grammar	3
ENG 402	Development of the English Language	3

Choose one specialized author or seminar course:		
ENG 410	Chaucer and His Age	3
ENG 411	Shakespeare: Comedies and Histories	3
ENG 412	Shakespeare: Tragedies and Romances	3
ENG 413	Milton	3
ENG 480	Seminar in English Literature	3
ENG 481	Seminar in American Literature	3

WRITING CONCENTRATION 30 credits REQUIREMENTS

Required Courses 21 credits		
ENG 200	Methods of Critical Analysis	3
ENG 330	Critical Writing	3
ENG 331	Creative Writing	3
ENG 401	Linguistics and Grammar	3

Choose one of the following:		
ENG 209	Book and Magazine Editing	3
COMM 250	Journalism	3

Choose one of the following pairs:

ENG 303	American Literature to 1865	3
and		
ENG 304	American Literature 1865-1914	3
ENG 304	American Literature 1865-1914	3
and		
ENG 317	Modern American Literature	3
ENG 301	English Literature: Through the Neoclassical Period	3
and		
ENG 302	English Literature: Romantic through Modern	3
ENG 302	English Literature: Romantic through Modern	3
and		
ENG 318	Modern British Literature	3
ENG 305	Literature of Western Europe: To the Renaissance	3
and		
ENG 306	Literature of Western Europe: Renaissance through Modern	3

Electives 9 credits

Choose three courses from one of the following tracks:

Creative Writing		
ENG 332	Advanced Creative Writing	3
COMM 324	Writing for Radio and TV	3
or		
COMM 431	Screenwriting	3
COMM 451	Freelance Writing	3
or		
ENG 619	Writing for the Magazine Market†	3

Critical Writing		
ENG 333	Critical Writing for the Specialist	3
COMM 351	Advanced Reporting	3
or		
COMM 451	Free-lance Writing	3
or		
COMM 454	News Editing	3
or		
COMM 459	Journalism Field Studies	3
ENG 300	Technical Writing	3
or		
ENG 615	Advanced Critical Writing†	3

Teaching		
ENG 332	Advanced Creative Writing	3
or		
ENG 615	Advanced Critical Writing†	3
ENG 333	Critical Writing for the Specialist	3
ENG 617	Modern Techniques of Composition†	3

†For senior students who show special ability; with the permission of the department and the dean.

MINOR REQUIREMENTS	18 credits
Three "survey" courses from American, English and World literature courses	9
One "period" course	3
ENG 210 Methods of Critical Analysis or	3
One course in writing	
Elective—chosen from English major electives on p. 64	3

Note: With the chairperson's permission, six credits of other English courses may be substituted for two of the required courses in the minor.

CERTIFICATION REQUIREMENTS 30 credits
Students who are interested in obtaining teacher certification in English must complete the secondary education (K-12) requirements listed on p. 40.

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 fiction, drama and poetry. May include Conrad, Joyce, Woolf, Yeats, Lessing, Faulkner, Hemingway, Fitzgerald, 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'Connor, 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 and 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 the 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 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 Itallie, 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, Bradbury, 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.

WILLIAM PATERSON COLLEGE

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 Sentinel"/ *2001: A Space Odyssey* (Clarke-Kubrick), *Blow-up* (Cortázar-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, sonnet, 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 The 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 340 Contemporary Literature

British, American and Continental fiction and poetry from World War II to the present; writers may include Barth, Barthelme, Pynchon.

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 demand and 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 for 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 History

Professors—J. Brandes, J. Drabble, M. Edelstein (chairperson), C. Gruber, D. Li, T. Ripmaster

Associate Professors—I. Nack, G. Satra

Assistant Professors—J. Pluss, I. Tirado

Emeritus—V. Caporale, L. Ellis, R. Miller

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	3
Hist 205	United States History to the Civil War	3
Hist 206	United State History Since the Civil War	3

Plus one 3-credit course in non-Western history, e.g., Chinese or Latin American history. This course may be at the 200-, 300-, or 400-level and cannot count towards elective requirements. 3

Plus 21 additional credits selected as follows:

1 course of completely free electives at 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 3 of European and 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 American history and 5 in European or non-Western history. Thematic courses do not count in these areas.

CERTIFICATION REQUIREMENTS 54 credits

Students who are interested in obtaining teaching certification in history must complete the following:

Academic Content Requirements 24 credits

One of the following African and Afro-American studies courses:

AAAS 110	Afro-American History to 1865	3
AAAS 111	Afro-American History since 1865	3
AAAS 300	The Black Family	3
AAAS 315	Afro-American Background for Teachers	3

One of the following economics courses:

ECON 201	Macroeconomic Principles	3
ECON 202	Microeconomic Principles	3
ECON 230	Economics of the Environment	3

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 30 credits

Completion of the 30-credit series, listed on page 40.

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 provide 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 Rome: Republic and Empire

A survey of critical issues and developments in Roman history from the founding of the city in the eighth century B.C. to the fall of the Empire in the fifth century A.D. Particular attention is placed on the historical effects of social and political growth and decline. Topics include both political-constitutional history and the development of social institutions such as the family and marriage.

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 302 Origins of Civilization

A survey of the world's oldest civilizations, including Ancient Egypt, Mesopotamia, the Hebrews and the Ancient Near East in general. The course examines how and why civilizations originated and developed in the Ancient Near East. Focus includes art and archeology as well as political, social and religious 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 Imperial Russia

Examines society, politics, and culture of Imperial Russia from the reign of Peter the Great to the last Romanovs. Major topics include serfdom, intellectual currents and nineteenth-century revolutionary movements.

HIST 331 Twentieth-Century Russia

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 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 is 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 339 Russian Revolutionary Tradition

Examines a century of revolution (1825-1925), focusing on the social, political, and intellectual characteristics of such groups as the Decembrists, Nihilists, Populists, Marxists and Anarchists.

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.

United States History

HIST 205 The American Nation I: Colonial Era to Reconstruction

The first semester of an introduction to American history, from the time of the European conquest of the Americas to the reconstruction of the nation after the Civil War. Recent approaches and techniques—e.g., social history, women's history, Afro-American history, working class history—are incorporated to permit new perspectives on the nation's past.

HIST 206 The American Nation II: Reconstruction to the Present

The second half of the introduction to U.S. history, this course spans the years from Reconstruction to the present. It aims to cast new light on familiar questions about the American experience in the late nineteenth and the twentieth centuries—e.g., the transformation of America under the impact of immigration, urbanization, industrialization, movements of social protest and reform, and the exercise of power on a global scale—through using the latest tools of historical interpretation.

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)

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 and the League of Nations concluding 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 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 trans-continental 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 America as a World Power

Traces development in United States foreign policy from emergence as a world power at the opening of the twentieth century 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 perils of nuclear weapons and the arms race are stressed.

HIST 328 Economic History of the United States

(also listed as ECON 328)
The course emphasizes the economic elements, including the use of human and natural resources, in the historic growth of the United States from colonial to recent times. An analysis is made of such evolutionary economic institutions as the business corporation and labor unions, as well as the changing role of government, technological innovations, competition versus combination, agrarian and industrial pioneering, and other issues in the development of the American economy.

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 dissent—from 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 revolutionary 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 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. 00.

HIST 499 Independent Study

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

Department of Languages and Cultures

Professors—C. Barry, O. Saa, O. de la Suarée (chairperson)

Associate Professors—D. Chao, A. Sully

Assistant Professors—A. Aguirre, M. Barasch, J. Falk, G. Nussenbaum, J. Sainz

Instructors—N. Bailey, M. Napoliello, K. Yoon

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 general education requirement in the humanities; and 4) to offer, whenever possible, electives in second languages.

Career opportunities stemming from a language major or 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.

The Foreign Language Requirement

I. Placement

William Paterson College has a 0 to 6 credit college-wide foreign language reading requirement which all students must satisfy before graduation. The College does not automatically accept high school foreign language work as equivalent to college-level study. Upon admission, all incoming freshmen and transfer students are screened for high school foreign language experience by an analysis of their high school transcripts. The students are placed in a college-level course commensurate with their high school performance, based on the number of years of study and the grade(s) achieved. The students begin study of a language in college at the level at which they are placed. Students with very limited or no background in a language whatsoever are placed in a Basic I section and choose among one of the following languages currently offered in the department: Chinese, French, German, Hebrew, Italian, Latin, or Spanish. Students with previous background in a language

are placed in a Basic II section. If a student decides to take a language he/she has never had before, the student enrolls in a Basic I course with the approval of the department's foreign language placement coordinator. Once a student enrolls in a Basic I section he/she also has to take a Basic II section in the same language. Upon passing a Basic II section, students have completed the requirements for basic language study. Likewise, those students who are placed above a Basic II section (such as Intermediate I or Intermediate II) have satisfied the college-wide foreign language requirement. They can further their study of a particular language and culture by taking Intermediate I and Intermediate II, which are accepted general education courses, or they can use those credits to take any upper-level general education course(s).

II. Exemption

The Department of Languages and Cultures also offers students the opportunity of "challenging" their foreign language placement. When students are informed of their placement they are offered the opportunity to take an **Exemption Exam**. This test is graded for two levels of proficiency: a) proficiency at a first-semester level (comparable to completing Basic I), and b) proficiency at a second-semester level (comparable to completing Basic II). If the student passes the Basic I level of proficiency, then he/she is exempted from taking 3 credits of the required six maximum in foreign language. If the student passes the Basic II level of proficiency, then he/she is exempted from taking all 6 of the required credits in foreign language.

A student may wish to obtain credit instead of an exemption for his/her demonstration of proficiency in which case he/she applies for a **Challenge Exam**. The same test is used in both cases. The only difference is that the student must pay the fee for a challenge exam if he/she desires to obtain credit. The student must decide before taking the exam(s) whether it will be for credit or for an exemption and whether or not to pay the fee. The test is graded for two levels of proficiency (Basic I or Basic II) and credits are awarded for demonstrating this level of proficiency (3 credits for one semester level and 6 for two semesters). No student has to take the exemption exam or the challenge exam nor will the performance in it affect his/her placement. This examinations are offered four times during the year in October, February, June and August.

For further information, students should contact their advisors or the foreign language placement coordinator in the Department of Languages and Cultures.

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 entrance 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.

MAJOR REQUIREMENTS 30 credits

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
FR 240	Cultural Heritage of France	3
or		
FR 241	Contemporary French Culture and Problems	3
FR 331	The Twentieth-Century French Novel	3

Note: Other French literature courses at or above the 200-level may be substituted for some of the above courses by advisement. Courses in French literature in translation may not be applied to major requirements.

Choose an additional 12 credits from among the following:

FR 219	Commercial French	3
FR 220	Translating I	3
FR 320	Interpreting French Literature	3
FR 333	The Modern French Theatre	3
FR 334	French Literature to 1600	3
FR 336	Great French Poetry from Villon to Our Times	3
FR 337	French Literature of Canada, the Antilles and Africa	3
FR 350	Advanced French Phonetics and Grammar	3
FR 351	Tutorial Laboratory in French	3
FR 399	Selected Topics	3
FR 432	The Nineteenth-Century French Novel	3
FR 435	Seventeenth-Century French Tragedy and Comedy	3

FR 438	Literature of the French Enlightenment	3
FR 480	Senior Seminar	3
FR 499	Independent Study	3

MINOR REQUIREMENTS 18 credits

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 to Robbe-Grillet	3
FR 240	Cultural Heritage of France	3
or		
FR 241	Contemporary French Culture and Problems	3

Choose an additional six credits in French from the following, three of which must be in a literature course:

FR 219	Commercial French	3
FR 220	Translating I	3
FR 320	Interpreting French Literature	3
FR 331	The Twentieth-Century French Novel	3
FR 333	The Modern French Theatre	3
FR 334	French Literature to 1600	3
FR 336	Great French Poetry from Villon to Our Times	3
FR 337	French Literature of Canada, the Antilles and Africa	3
FR 350	Advanced French Phonetics and Grammar	3
FR 399	Selected Topics	3
FR 432	The Nineteenth-Century French Novel	3
FR 435	Seventeenth-Century French Tragedy and Comedy	3
FR 438	Literature of the French Enlightenment	3
FR 480	Senior Seminar	3
FR 499	Independent Study	3

Note: Courses in French literature in translation may not be applied to minor requirements.

CERTIFICATION REQUIREMENTS 33 credits

Students interested in obtaining teaching certification in French must complete the following:

FR 350	Advanced French Phonetics and Grammar	3
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The 30-credit series listed on page 40.

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: No 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 I*

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: FR 111, 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 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 daily work. Prerequisite: Intermediate-level proficiency

WILLIAM PATERSON COLLEGE

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

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 nineteenth 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 in 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 REQUIREMENTS		30 credits
SPAN 113	Intermediate Spanish II	3
SPAN 221	Spanish: The Spoken Language	3
SPAN 222	Advanced Spanish Conversation and Composition	3
SPAN 230	Introduction to Spanish Literature I	3
or		
SPAN 231	Introduction to Spanish Literature II	3
SPAN 240	Hispanic Culture I: Spain	3
or		
SPAN 241	Hispanic Culture II: Spanish America	3

Plus one course from each of the following five groups:

Golden Age

SPAN 331	The Golden Age of Spain	3
SPAN 435	Cervantes and His Age	3
SPAN 481	Spanish Seminar: Quevedo, The Spanish Mystics, The Picaresque Novel, others	3

Nineteenth- and Twentieth-Century Literature

SPAN 330	Spanish Literature of the Twentieth Century	3
SPAN 334	Romanticism in Spain: Prose and Poetry	3
SPAN 434	The Nineteenth-Century Novel of Spain	3

Spanish American Literature to 1900		
SPAN 430	The Literature of Spanish America to Modernism	3
SPAN 432	The Novel in Spanish America I	3
SPAN 436	The Modern Spanish American Essay	3

Spanish American Literature: Modern		
SPAN 431	The Modern Literature of Spanish America	3
SPAN 433	The Novel in Spanish America II	3
SPAN 480	Seminar: Spanish America	3

Spanish Drama		
SPAN 332	The Drama of the Golden Age	3
SPAN 335	Modern Spanish American Drama	3
SPAN 337	The Romantic Theatre in Spain	3

MINOR REQUIREMENTS 18 credits

SPAN 221	Spanish: The Spoken Language	3
or		
SPAN 222	Advanced Spanish Conversation and Composition	3
SPAN 230	Introduction to Spanish Literature I	3
or		
SPAN 231	Introduction to Spanish Literature II	3
SPAN 240	Hispanic Culture I: Spain	3
or		
SPAN 241	Hispanic Culture II: Spanish America	3

Plus one course from each of the following three groups:

Golden Age		
SPAN 331	The Golden Age of Spain	3
SPAN 435	Cervantes and His Age	3
SPAN 481	Spanish Seminar: Quevedo, The Spanish Mystics, The Picaresque Novel, others	3

Spanish American Literature to 1900		
SPAN 430	The Literature of Spanish America to Modernism	3
SPAN 432	The Novel in Spanish America I	3
SPAN 436	The Modern Spanish American Essay	3

Spanish Drama		
SPAN 332	The Drama of the Golden Age	3
SPAN 335	Modern Spanish American Drama	3
SPAN 337	The Romantic Theatre in Spain	3

CERTIFICATION REQUIREMENTS

Students interested in obtaining teaching certification in Spanish must complete the 30-credit series listed on page 40.

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 and in everyday situations. The student is also exposed to basic forms of the written language and carefully graded readings aimed at widening the working vocabulary.

Prerequisite: No high school Spanish

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 everyday 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 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 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 second-year 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

*One hour lab work per week required.

SPAN 222 Advanced Spanish Conversation and Composition

Advanced oral and written communication with practical application of content and theory in speaking and oral reading situations. Analysis of various writings to discover principles and techniques to be applied by the student in his/her 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, Henríquez, 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, Azorín, 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, Arri, 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 Martí, 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, Nerivo, Díaz Rodríguez, Reyes 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, Henríquez, Ureña, 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 Darfo, 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.

BILINGUAL/BICULTURAL EDUCATION 24 credits

TBED 301	Theories and Practices in Bilingual Education and E.S.L.	3
TBED 303	Social and Psychological Development of the Bilingual Child	3
TBED 304	Curriculum Development and Evaluation in Bilingual Education	3
TBED 305	Language and Culture of Hispanic Peoples	3
TBED 309	Introduction to Linguistics	3
TBED 318	Field Experience (Spanish)	3
or		
TBED 319	Field Experience (English)	3
TBED 402	Methodology of Second Language Teaching	3

Plus one bilingual/bicultural course or practicum.

Note: The state language proficiency examinations in English and in Spanish or another foreign language must be passed.

ENGLISH AS A SECOND LANGUAGE 30 credits

TBED 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 Bilingual Child	3
TBED 305	Language and Culture of Caribbean Peoples	3
TBED 309	Introduction to Linguistics	3
TBED 319	Field Experience (English)	3
ENG 401	Linguistics and Grammar	3
ENG 402	Development of the English Language	3

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 peninsula, 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.

WILLIAM PATERSON COLLEGE

CHIN 111 Basic Chinese I*

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 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.

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, Li Po, 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

*One hour lab work per week required.

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 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

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 non-living language, classes expose the student to translation of simple grammatical forms and sentences in order to develop an extensive vocabulary.

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 aid 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 equivalent

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

*One hour per week lab work required.

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 Japanese 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 idioms, 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 a student's knowledge of Japanese grammar, vocabulary and idioms, and characters, building on the previously acquired foundation in Japanese.

Prerequisite: JPAN 112 or equivalent.

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 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 499 Russian Independent Study

As approved by the department.
1-3 credits

Department of Philosophy

Professors—M. Hailparn, A. Juffras, W. McKeefery (chairperson), P. Rothenberg
Associate Professor—M.L. Friquegnon
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.

MAJOR REQUIREMENTS 30 credits

Core Courses 6 credits
 PHIL 110 Introduction to Philosophy (does not count toward major requirements) 3
 PHIL 130 Ethics 3
 PHIL 180 Logic 3

History—two of the following: 6 credits

PHIL 190 The History of Ancient Philosophy 3
 PHIL 330 David Hume and The Skeptic Tradition 3
 PHIL 331 Nineteenth-Century Philosophy: Post-Kantian German Idealism 3
 PHIL 421 Contemporary Analytic Philosophy 3

Topical areas—two of the following: 6 credits

PHIL 120 Philosophy of Religion 3
 PHIL 310 Political Philosophy 3
 PHIL 312 Metaphysics 3
 PHIL 317 Theory of Knowledge 3
 PHIL 321 Philosophy of Art 3
 PHIL 325 Philosophy of Science 3

Great thinkers—one of the following: 3 credits

PHIL 326 Plato
 PHIL 327 Aristotle
 PHIL 404 Classics in 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, hypothetico-deductive 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 Utopian 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

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 *Organon* 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.

PHIL 334 Business and Ethics

A study of large corporations as quasi-political 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 Polybius. 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 in depth 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 *Utilitarianism*, James' *Pragmatism*, et al.

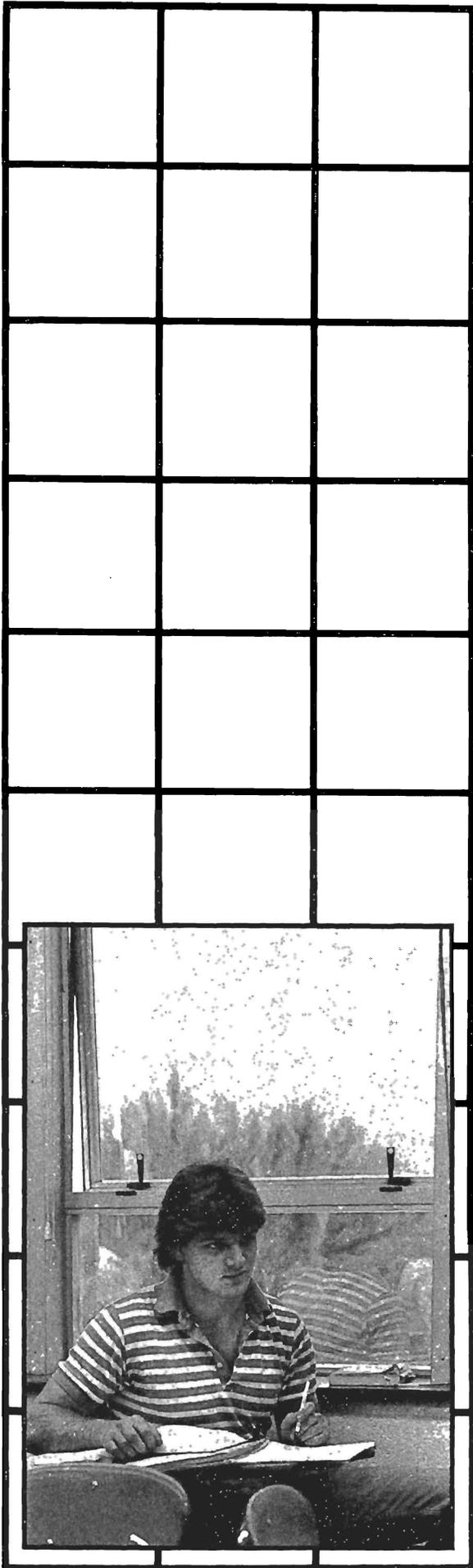
PHIL 421 Contemporary Analytic Philosophy

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. 60.



**THE
SCHOOL
OF
MANAGEMENT**

The School of Management

Berch Haroian, Dean
Office: White Hall E1

The School of Management offers B.A. degrees in three business-related areas—accounting, business administration and economics—as well as a B.S. degree in computer sciences. Students in the three business-related programs are bound by a common curriculum specified by the American Assembly of Collegiate Schools of Business. Students in the computer science program have different requirements as specified in the departmental description below.

Standards

All freshman students intending to pursue a major within the school must follow a “structured curriculum” for the first 30 credits.

Business-Related Programs 12 credits

ACCT 211	Principles of Accounting I	3
ACCT 212	Principles of Accounting II	3
ECON 201	Macroeconomic Principles	3
ECON 202	Microeconomic Principles	3

Computer Science Program 12 credits

ACCT 211	Principles of Accounting I	3
ECON 201	Macroeconomic Principles	3
ECON 202	Microeconomic Principles	3
ECON 210	Economic Statistics I	3

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 Dean of Students 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.

In addition, the transfer of upper level courses taken in business, economics, accounting and computer sciences at the junior college level is subject to validation before being credited towards a major.

Department of Accounting and Law

Professor—C. Anyanwu

Associate Professors—N. Bassano, R. Bing, F. Cahill, R. Davis, M. Rudnick, G. Sheehan

Assistant Professors—H. Davidoff, F. Grippo, A. Weinstein, J. Wilkerson

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
 - c. 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.
5. 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 Pro-

fessional Conduct. It is written in the Accountancy Law that every applicant for the C.P.A. Certificate is bound by these rules.

Accounting Internship

The department offers an internship in accounting for outstanding senior students. Students intern in area accounting firms for a six- to eight-week period in their senior year. Admission to the internship is competitive, based on the student’s grade point average and other criteria. Students interested in this internship should contact the department coordinator.

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.

MAJOR REQUIREMENTS 66 credits

School of Management Core 33 credits

ECON 202	Macroeconomics	3
ACCT 211	Principles of Accounting I	3
ACCT 212	Principles of Accounting II	3
LAW 201	Legal Environment of Business	3
ECON 210	Economic Statistics I	3
MGT 301	Principles of Management	3
MGT 305	Management Information Systems	3
MKT 310	Marketing	3
FIN 320	Corporate Finance	3
MGT 431	Production and Operational Management	3
MGT 460	Business Strategy and Policy	3

Accounting Courses 24 credits

ACCT 311	Intermediate Accounting I	3
ACCT 312	Intermediate Accounting II	3
ACCT 340	Cost Accounting I	3
ACCT 341	Cost Accounting II	3
ACCT 370	Auditing	3
ACCT 411	Taxation I	3
ACCT 412	Taxation II	3
ACCT 420	Advanced Accounting I	3

Additional Requirements 9 credits

LAW 251	Business Law I	3
Finance Elective		
LAW 252	Business Law II or	3
ACCT 430	Advanced Accounting II	3

Courses

Unless otherwise noted, all courses are for 3 credits.

ACCT 211 Principles of Accounting I

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 taxation 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

Law

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 law-related 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 201 Legal Environment of Business

Designed to familiarize students with the legal system with particular emphasis on the court system and administrative agents. Also includes examination of substantive areas such as antitrust, bankruptcy, corporate law, partnership and securities regulations.

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,

WILLIAM PATERSON COLLEGE

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: 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, adjudicatory 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 Computer Science and Quantitative Analysis

Professor—L.S. Cheo

Associate Professors—L. Gaydosh, E. Hu, J. Najarian

Assistant Professors—A. Davis, M. Schlafmitz

Instructor—L. Jololian

Computer Science Program

The computer science program consists of a five-track minor and a bachelor of science degree program. The minor, open to all students regardless of discipline, requires students to successfully complete a minimum of 18 credits in the computer science area. The degree program requires students to complete 27 credits of major requirements and 9 major elective credits.

Computer facilities consist of an in-house Burroughs 1955 minicomputer system, a remote job entry (RJE) system and twenty interactive time-sharing (T/S) terminals. Both RJE and terminal devices are connected to two main frames: IBM 3033U and IBM 370/4381 located at New Jersey Educational Computer Network. The Apple II micro-computer (21) and the IBM PC (25) are available for classwork. In addition, for students interested in learning various types of deterministic and probabilistic simulation as well as problem-solving techniques through an analog device, an EAI Analog computer system is available. All computing equipment is located in the Coach House Computer Center except the analog computer which is located in White Hall.

MAJOR REQUIREMENTS 60 credits

Core Requirements	9 credits
ACCT 211 Principles of Accounting I	3
ECON 202 Macroeconomic Principles	3
ECON 210 Economic Statistics I	3

Major Courses 27 credits

CS 140 Computer Science I	3
CS 240 Computer Science II	3
CS 260 Discrete Structures	3
CS 280 Computer and Assembler Language	3
CS 341 Computer Design	3
CS 342 Data Structures	3
CS 345 Operating Systems	3
CS 360 Computer Calculus	3
CS 480 Computer Science Seminar	3

Major Electives 9 credits

Nine credits are chosen from among the following:

CS 320 Artificial Intelligence	3
CS 330 Linear Programming and Operations Research	3
CS 362 Computer Simulation	3
CS 380 Data Communications and Computer Network	3
CS 420 Compiler Construction	3
CS 440 Data Base Management	3
CS 445 Automata	3
CS 461 Computer Graphics	3

CS 462 System Simulation	3
CS 499 Independent Study	1-3

Free Electives 15 credits

Courses

Unless otherwise noted, all courses are for 3 credits.

CS 130 Introduction to Computer Programming/BASIC

Introduces the basic principles and applications of computing systems, microcomputers in particular. Techniques of computer programming are introduced through BASIC.

CS 135 Introduction to FORTRAN

Designed to teach students how and why a computer is used. The student gains the experience of how to program in the FORTRAN programming language. Simple applications in the most frequently used mathematical models are included.

CS 140 Computer Science I

An introduction to design and representation of algorithms. Problem-solving and programming techniques: top-down analysis and recursion. Emphasizes computer solution of numerical and non-numerical problems using PL/I. Prerequisite: MATH 115

CS 152 COBOL I

Introduction to the COBOL language with applications to commercial problems. Topics in business information processing such as payroll and inventory management are examined.

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.

CS 240 Computer Science II

File handling, recursion and advanced program constructs in PL/I. Analysis of algorithms, strategies for learning new languages. Prerequisites: CS 140 and MATH 160

CS 260 Discrete Structures

A study of the mathematical theory and techniques underlying computer science. Topics: combinatorial analysis, graph theory, Boolean algebra, set theory, matrices, probability and statistics. Prerequisites: CS 140 and MATH 160

CS 270 Computer Statistical Techniques

An introductory course to study the existing major statistical packages such as DATA-TEXT, BMD, SPSS, SAS, etc. Some basic JCL concepts used for this purpose are discussed. Topics include statistical programs and their applications, chi-square, regression, correlation, factor analysis, analysis of variance and multi-regression.

Prerequisites: MATH 130 or equivalent, MATH 160 and CS 140

CS 280 Computer and Assembler Language

An introduction to the study of the basic structure and language of machines. Topics include: basic concepts of Boolean algebra; number systems; language; addressing techniques; data representation; file organization; symbolic coding and assembly systems; use of macros; batch operation and job handling.

Prerequisites: CS 240, CS 260 and MATH 161

CS 320 Artificial Intelligence

Problem representation, search strategies and list processing. Exercise in using current expert system construction tools.

Prerequisites: CS 240, CS 260 and MATH 161

CS 330 Linear Programming and Operations Research

An introduction to the concept of operations research and mathematical techniques applied to decision-problems when the inputs are known. Topics include linear, nonlinear and dynamic programming with applications to transportation, assignment, resource allocation, production scheduling and inventory problems.

Prerequisites: CS 240, CS 260 and MATH 161

CS 341 Computer Design

An introduction to the internal structure of digital computers. Topics include construction of basic digital circuits such as adders, counters and decoders; functional description of a digital computer; execution of program instructions; arithmetic unit; machine addition, subtraction, multiplication and division; memory structure, organization and control of input/output facilities; concepts of microprocessing and micro-computers.

Prerequisites: CS 280, PHYS 256

CS 342 Data Structures

An introduction to data structures. Topics: strings, lists, restricted data structures, graphs and trees, file structures, sorting, searching, memory management and advanced data structure applications.

Prerequisites: CS 240, CS 260 and MATH 161

CS 345 Operating Systems

An introduction to operating systems and design. Topics: concurrent programming, process synchronization, interprocess communication and memory management.

Prerequisite: CS 280

CS 352 COBOL II

A study of the data processing systems and advanced features of COBOL. Topics include: binary number systems, computer system design, card systems, tape systems, direct access systems, operating systems and job control language; modular programming, structure programming, sub-programs and COBOL Compiler supplied subprogram; report writers, sorting and merging procedures; program debugging; test data; computer security and privacy.

Prerequisite: CS 152

CS 360 Computer Calculus

Emphasizes building algorithms for solution of numerical problems; the sensitivity of these algorithms to numerical errors and the efficiency of these algorithms. Topics: solutions to non-linear equations, systems of linear equations; interpolation and quadrature solutions; numerical differentiation and integrations; eigenvalues and eigenvectors.

Prerequisites: CS 240, CS 260 and MATH 161 (MATH 202 recommended)

CS 362 Computer Simulation

Probabilistic simulation models: generation of random numbers, Monte Carlo method; elementary queuing theory. Deterministic simulation models; applications to physics, economics and biological processes. Other non-numerical problems included are searching and sorting techniques, information retrieval techniques.

Prerequisites: CS 240, CS 260, CS 270 or equivalent and MATH 161

CS 380 Data Communications and Computer Network

Introduces the basic concepts, principles, design procedures and applications of computer networks and data communication systems. ISO reference model is used as the basis to discuss the general functions and protocols of the network architecture. Typical networks such as ARPANET and others are discussed in relation to the ISO reference model. This course also introduces students to other important issues in data communications including network security, network management, etc.

Prerequisites: CS 240, CS 260, CS 270 or equivalent and MATH 161

CS 399 Special Topics in Computer Sciences

This course is designed to implement new topics on an experimental basis.

Prerequisite: Instructor's permission

CS 420 Compiler Construction

An introduction to the major techniques used in compiler writing. Topics include: formal language theory; lexical and syntactic analysis; code generation and optimization; error diagnostics and recovery.

Prerequisite: CS 342

CS 440 Data Base Management

Flow of data, its representation, transmission and storage. Topics include: data collection, conversion and verification; data transmission systems; data representations; data organization and storage; data manipulation and file management; data calculation; information display and retrieval; storage-program concepts and processing techniques; programming and operating systems.

Prerequisite: CS 342

CS 445 Automata

This course emphasizes the central concepts of effective procedures of computer-like machines, such as finite-state machines, pushdown automation; register

machines and the Turing machine. Topics include: automata made up of parts; the memories of events in finite-state machines; computability; the relation between the Turing machine and recursive functions.

Prerequisite: CS 360

CS 461 Computer Graphics

An introduction to computer graphic principle and techniques. Design of interactive computer graphic systems, including display devices, display files and image generation, application to architectures, animation and other fields.

Prerequisite: CS 360

CS 462 System Simulation

Introduction to the principles of simulation and the application of several simulation languages to systems 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

CS 480 Computer Science Seminar

Current topics in computer sciences are discussed.

Prerequisites: CS 342, CS 360 and instructor's permission

CS 499 Independent Studies

As approved and to be arranged. 1-3 credits

QUANTITATIVE ANALYSIS 18 credits MINOR

Professor—L. Presby
Associate Professor—L. Gaydosh

The concentration in quantitative analysis is open to all students.

ECON 210	Economic Statistics I	3
MATH 120	Finite Math	3
MATH 150	Applied Calculus	3

Plus 9 additional credits selected from the following courses:

BUS 470	An Introduction to Operations Research	3
ECON 211	Economic Statistics II	3
ECON 430	Econometrics	3
CS 270	Computer Statistical Techniques I	3
CS 330	Linear Programming and Operations Research	3
CS 362	Elements of Computer Simulation	3
CS 370	Computer Statistical Techniques II	3
CS 465	Computer Simulation II	3

Department of Economics and Finance

Professors—G. Dorai, A. Eapen, B. Haroian, M. Laurence, C.K. Leung

Associate Professors—A. Ghosh, C. Lid-dicoat, N. Modeste

Assistant Professors—M. Ettinger, V. Maffei, T. Ramin, P. Swanson

The economics program provides students with a broad conceptual framework and the analytical tools of economic decision making. Flexibility is built into the curriculum so that students may seek employment upon completion of their four-year 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
School of Management Core	33 credits
ECON 202 Microeconomics	3
ECON 210 Economic Statistics I	3
ACCT 211 Principles of Accounting I	3
ACCT 212 Principles of Accounting II	3
LAW 201 Legal Environment of Business	3
MGT 301 Principles of Management	3
MGT 305 Management Information Systems	3
MKT 310 Marketing	3
FIN 320 Corporate Finance	3
MGT 431 Production and Operations Management	3
MGT 460 Business Strategy and Policy	3

Economics Courses	21 credits
ECON 211 Economic Statistics II	3
ECON 301 Macroeconomic Theory	3
ECON 302 Microeconomic Theory	3
Economic Electives (upper level)	12

Additional Requirements	6 credits
Free electives	6

Courses

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, sampling and probability.

Prerequisites: ECON 201, 202

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 FIN 310)

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 MGT 240)

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 demanded 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

FIN 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

FIN 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.

FIN 403 Capital Budgeting

The conditions under which production takes place and the part managers and workers play in effecting production.

Prerequisites: MKT 310, 320

Department of Marketing and Management Sciences

Professors: Ki Hee Kim, P. Nayak, L. Podell
Assistant Professor: J. Carroll

Business Administration

Within the business administration program, students may elect a concentration in either management, marketing or finance. 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.

MAJOR REQUIREMENTS 60 credits
School of Management Core 33 credits

ECON 202	Microeconomics	3
ECON 210	Economic Statistics I	3
ACCT 211	Principles of Accounting I	3
ACCT 212	Principles of Accounting II	3
LAW 201	Legal Environment of Business	3
MGT 301	Principles of Management	3
MGT 305	Management Information Systems	3
BUS 310	Marketing	3
FIN 320	Corporate Finance	3
MGT 431	Production and Operational Management	3
BUS 460	Business Strategy and Policy	3

Concentration 21 credits*
Free electives 6 credits

***Areas of Concentration (21 credits) Management**

ECON 211	Economic Statistics II	3
MGT 306	Organizational Behavior and Theory	3
MGT 308	Organizational Development and Design	3
MGT 309	International Management	3
MGT 315	Human Resource Planning and Development	3
MGT 451	Management Planning and Control	3
MGT 480	Seminar in Management	3

Marketing

ECON 211	Economic Statistics II	3
MGT 309	International Management	3
MKT 314	Advertising	3
MKT 316	International Marketing	3
MKT 430	Product Planning	3
MKT 465	Marketing Research	3
MKT 475	Transportation and Business Logistics	3

Finance

ECON 211	Economic Statistics II	3
FIN 311	Money and Banking	3
FIN 400	International Financial Management	3
FIN 403	Capital Budgeting	3
FIN 410	Taxation I	3
FIN 420	Managerial Economics	3
FIN 435	Principles of Investment	3

Courses

Unless otherwise noted, all courses are for 3 credits.

MGT 301 Principles of 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, 202

MGT 302 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: MGT 301, 310

MGT 305 Management Information Systems

Provides methodology of the design, analysis and evaluation of management information systems. Topics include organizational implications of information technology, planning and control systems, implementation of an integrated system, technical treatment of MIS management and application of computers via micro-computer packages in business environments.
 Prerequisites: CS 135, MGT 301

MGT 306 Organizational Behavior and Theory

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: MGT 301

MGT 308 Organizational Development and Design

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: MGT 301, 306

MGT 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: MGT 301, 310, ECON 201, 202

MKT 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, channels of distribution, promotion activity, selling and sales management, pricing and international marketing.
 Prerequisites: MGT 301, ECON 201, 202

FIN 310 Money and Banking (also listed as ECON 310)

An analysis of the nature of money, credit and the banking system of the United States.
 Prerequisites: ECON 201, 202

MKT 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 itself.
 Prerequisites: ACCT 211, 212, MKT 310

MGT 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: MGT 301, 306

FIN 320 Corporation Finance

A study of the financial principles and practices and dissolution of private business corporations.
 Prerequisites: ACCT 211, 212, ECON 201, 202

MGT 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 bargaining, labor unions, inflation and unemployment.
 Prerequisites: ECON 201, 202

MKT 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, MKT 310

FIN 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.

FIN 403 Capital Budgeting

The conditions under which production takes place and the part managers and workers play in effecting production.

FIN 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 partnership is also examined.

Prerequisites: ACCT 211, 212

FIN 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: FIN 410

MGT 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

MKT 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: MKT 310, FIN 320

MGT 431 Production and Operations Management

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, MGT 301

FIN 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: ECON 211, MKT 310, FIN 320

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.

MGT 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: MGT 301, 306

MGT 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: MGT 301, 306, FIN 320

MKT 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, ECON 211, MKT 310, FIN 320

MGT 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.

Prerequisites: ECON 211

MKT 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, MKT 310

MGT 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: MGT 301, 460, MKT 460

Public Administration

Professor—J. Muruku Waiguchu

Associate Professor—Reggie C. Grier

The current program focus on criminal justice is being modified to reflect the broader areas of public affairs/administration. The reason for this change is that 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. Currently, the degree offered is a B.S. in public safety administration.

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	3
ECON 202	Microeconomic Principles	3
LAW 251	Business Law I	3

Public Administration Courses 24 credits

CJA 160	Introduction to Criminal Justice Systems	3
CJA 207	Introduction to Criminology	3
CJA 302	Criminal Justice Planning	3
PPM 211	Introduction to Public Management	3
PPM 230	Introduction to Public Information Systems	3
PPM 265	Introduction to Public Policy Studies	3
PPM 411	Public Personnel Systems	3
PPM 415	Public Budgeting and Finance	3

Public Administration Electives 21 credits

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

Unless otherwise noted, all courses are for 3 credits.

PPM 211 Introduction to Public Management

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 Institutional/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 301 Public Organization Theory and Behavior

The theories and principles of organizational behavior are viewed in the context of public policymaking and management. The course examines the nature and

evolution of organizational structures, functioning and behavior of groups and individuals with an emphasis on recent organizational and research trends and findings. Attention is also given research findings concerning group behavior, supervisory behavior, inter-group relations, employee goals and design.

Prerequisite: PPM 211

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 315 Quantitative Methods for Public Policy Making

The course utilizes quantitative concepts, principles and methods in the development and implementation of public policy alternatives. Methodological and evaluation concepts and tools in program development and implementation, quantitative criteria models, monitoring techniques and procedures, impact assessment, benefit-cost and cost-effectiveness are also emphasized.

Prerequisite: PPM 211

PPM 325 Planning and Planning Processes

Examines and analyzes various principles, theories, patterns and practices of planning in public organizations. Topics include tools and techniques of planning; political and social environment of planning; the impact of technology on the planning process.

Prerequisite: PPM 211, 301

PPM 330 Non-Profit Organizations and Management

The number of private, non-profit corporations continues to grow, and these organizations are coming to have tremendous influence in community development and urban policymaking. This course examines the problems and issues surrounding the management of "not-for-profit" organizations. Topics include behavior of non-profit organizational board members, fund raising, and the role of non-profit organizations in community and economic development.

Prerequisites: PPM 211 and 311, or permission of instructor

PPM 365 Program Analysis

Program analysis involved 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 Making

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 411 Public Personnel Systems

Principles, structures and techniques of public personnel systems, organization and development. Topics focus on key sectors of personnel systems: recruitment, selection, training, promotion, classification, evaluation and transfer policies. The impact of public personnel theories and practices on service processes, delivery systems and the political process is also considered.

Prerequisites: PPM 211, 311

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 430 State and Local Government Finance

Problems and issues of budgeting and finance peculiar to state and local governments. Topics include financing local governments, capital budgeting and programming, property taxes, procurement, local governmental debt policy and state supervision of local governmental finance.

Prerequisite: PPM 415

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 Studies

Students work in their areas of specialization under the direction of experienced public officials.

WILLIAM PATERSON COLLEGE

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 leadership.

CJA 162 Contemporary Corrections

Examines the primary objectives and organizational 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 community-based 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 administration 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 used.

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

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 Portuguese 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 REQUIREMENTS

36 credits

Economics

ECON 201	Macroeconomic Principles	3
ECON 202	Microeconomic Principles	3
ECON 210	Economic Statistics I	3

THE SCHOOL OF MANAGEMENT

ECON 211	Economic Statistics II	3
ECON 370	International Economics	3
ECON 390	Comparative Economic Systems	3

Business

BUS 309	International Management	3
BUS 320	Corporation Finance	3

Accounting

ACCT 211	Principles of Accounting I	3
ACCT 212	Principles of Accounting II	3

Political Science

HPIM 213	Sophomore Honors Colloquium	1
HPIM 480	Senior Honors Seminar in Economic Growth, Development and Problems (different sections for East Asia, Europe and Latin America)	2
POL 240	International Relations	3

AREA STUDY

REQUIREMENTS 18-30 credits
Foreign Language 0-12 credits

Student must demonstrate intermediate-level proficiency in the appropriate language, usually by successfully completing 2-4 semesters of college-level courses.

History 9 credits

Choose at least one course from each of the following groups:

FAR EAST

HIST 265	Modern Japan	3
HIST 270	Traditional China	3
HIST 271	Modern China	3

LATIN AMERICA

HIST 380	Colonial Latin America	3
HIST 381	Modern Latin America	3
HIST 382	Puerto Rico, Cuba and the Caribbean World	3

EUROPE

HIST 301	Social History of Modern Europe	3
HIST 333	Modern Britain	3
HIST 338	Europe Since 1914	3

Electives 9 credits

Choose at least one course from each of the following areas:

Sociology/Anthropology

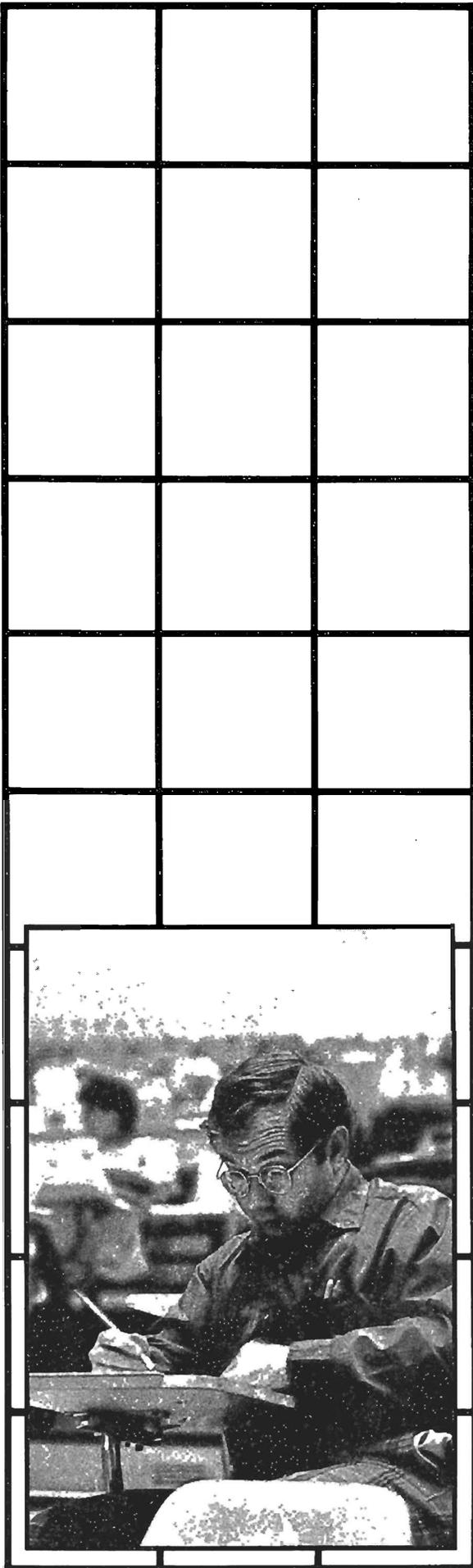
SOC 342	Ethnology in East Asia: China and Japan	3
SOC 359	Cultural Changes in Latin America	3

Political Science

POL 332	European Political Systems	3
POL 337	Politics of Latin America	3
POL 480	Seminar in Political Science	3

Geography

GEO 331	Asia's Geography and Problems	3
GEO 333	Europe's Geography and Problems	3
GEO 335	Latin America's Geography and Problems	3



**THE
SCHOOL
OF
SCIENCE**

The School of Science

Robert L. Simpson, 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 of Science also offers a degree in liberal studies for students who wish to pursue a directed course of study integrating the offerings of the disciplines represented within the school.

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 podiatry 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 alternate 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. 20036, 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, the University of Ohio 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 pre-medical/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 credits

Biology
 BIO 163-164 General Biology I and II 8

or
 BIO 112-113 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

Computer Science
 CS 130 Introduction to Computers/BASIC 3

or
 CS 140 Computer Science I 3

Physics
 Choose one of the following two-semester courses by advisement (not required of nursing students):
 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 Experimental Psychology I and II 8

or
 MATH 230 Statistics I 3

CORE COURSES 14 credits

BIPY 474 Neuroscience 4

BIPY 475 Behavior Genetics 4

Topical Elective in Biopsychology (one or more) 3

PSY 353 Psychological Psychology 3

MAJOR ELECTIVES 10-12 credits

Elective courses are chosen by advisement. Recommended liberal studies courses:

PHIL 110 Introduction to Philosophy 3

or
 PHIL 140 Introduction to Inquiry 3

SOC 130 Introduction to Anthropology 3

*Choose from sociobiology, psychopharmacology, biorhythms in physiology and behavior, and special current topics as announced.

Courses

Unless otherwise noted, all courses are for 3 credits.

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 112-113 or PSY 353 or permission of the instructor
 4 credits/lecture and laboratory

BIPY 475 Behavior Genetics

An introduction to the concept of gene-environment 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 112-113 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 112-113 or permission of the instructor

BIPY 479 Biorhythms in Physiology and Behavior

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 112-113 or BIO 114

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, voluntary movement, sexual behavior, motivation, emotion, memory and learning.
 Prerequisites: PSY 110 and BIO 114 or equivalent

PSY 415 Psychopharmacology

Focuses on the major classes of drugs which alter brain and psychological functioning. Examines and compares the mechanisms by which these drugs affect the brain. The psychopharmacology of pain, anxiety, depression and schizophrenia are included.
 Prerequisites: BIO 163-164 or 112-113 or PSY 353

Department of Biology

Professors—R. Callahan, M. Hahn, C.Y. Hu, D. Levine, J. Rosengren, A. Shinn, R. Simpson, J. Voos, E. Wallace, D. Weisbrot, J. Werth (chairperson)

Associate Professors—R. Chesney, N. Grant, J. Green, S. Hanks, A. Isaacson, O. Newton, M. Sebetich.

Assistant Professors—R. Benno, D. Desroches, E. Enslee

The Department of Biology offers a B.S. degree 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 biologists, 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.

MAJOR REQUIREMENTS 32-37 credits

BIO 163	General Biology I	4
BIO 164	General Biology II	4
BIO 480	Biology Seminar	1
or		
BIO 499	Independent Study: Research	1

Plus one course from each of the following four tracks:

Cell and Molecular Biology

BIO 205	Cell Biology	4
BIO 320	General Bacteriology	4
CHEM 327	Biochemistry I	4
BIO 417	Histology	4

Organismal—Plant

BIO 261	General Botany	4
BIO 303	Plant Anatomy	4
BIO 304	Plant Physiology	4
BIO 352	Economic Botany	3

Organismal—Animal

BIO 219	Lower Invertebrates	4
BIO 220	Higher Invertebrates	4
BIO 301	Comparative Animal Physiology	4
BIO 350	Animal Behavior	3
BIO 405	Comparative Vertebrate Anatomy	4
BIO 421	Developmental Biology	4
BIPY 474	Neuroscience	4

Populational Biology

BIO 306	General Genetics	4
BIO 402	Limnology	4
BIO 403	General Ecology	4
BIO 444	Evolution	3
BIPY 475	Behavior Genetics	4

Plus three additional courses chosen from any track or combination of tracks, by advisement. 9-12

Note: In addition to courses listed above, other biology courses may be substituted in the tracks with the permission of the department chairperson.

DIRECTED ELECTIVES		32
CHEM 160	General Chemistry I	4
CHEM 161	General Chemistry II	4
CHEM 308	Organic Chemistry I	4
CHEM 309	Organic Chemistry II	4
MATH 160-161	Calculus I, II	8

Plus one of the following two-semester courses:

PHYS 255-256	College Physics I and II	8
PHYS 260-261	General Physics I and II	8

MINOR REQUIREMENTS		18-20 credits
BIO 163	General Biology I	4
BIO 164	General Biology II	4

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 30 credits
Students interested in obtaining teacher certification in comprehensive science must complete the secondary education (K-12) requirements listed on p. 40.

Courses

Unless otherwise noted, all courses are for 3 credits.

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; human skeleton. Second semester: nervous, endocrine, reproductive, digestive, and urinary systems; metabolism, acid-base balance, and water and electrolyte balance.

Open to all; required of nursing and community health 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 immunity.

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 community 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

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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

Advanced studies in human physiology. Emphasis on cardiology, circulation, acid-base balance, water balance and disorders of the nervous system.

Prerequisites: BIO 112-113 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 metabolism, ecology, immunology and virulence are discussed.

Prerequisites: BIO 163-164, 1 year of chemistry

4 credits

Lecture and laboratory

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

Explores the importance of plants and plant products in terms of food, clothing, shelter and medicines, as well as their aesthetic value to humankind.

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 phylogenetic 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

The microscopic anatomy, organization and function of normal mammalian tissues. Study of tissues and organs by light microscopy comprises the laboratory component of the course.

Prerequisites: BIO 112-113 or 163-164

4 credits

Lecture and laboratory

BIO 421 Developmental Biology

The study of embryonic change in living organisms. Cellular and biochemical mechanisms which account for the emergence of form in embryos and regenerating tissues are explored. A broad range of organisms are considered. Both living and preserved embryos are studied in the laboratory.

Prerequisite: BIO 163-164

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 in-depth 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.

Prerequisite: junior standing

1 credit

BIO 484 Scanning Electron Microscopy

Theory and functioning of the SEM. Each student is required to carry out a project.

Prerequisites: 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— C.W. Lee, A. Merijanjan, A. Speert

Associate Professors— G. Gerardi (chairperson), R. McCallum, L.J. Rivela, G. Sharma

Assistant Professor— S. Raj

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. degree 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 or her 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

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
CHEM 401	Analytical Instrumentation	4
CHEM 426	Organic Spectroscopy	4
	Advanced Chemistry Electives (select two courses)	6
CHEM 480	Seminar in Chemistry*	1

DIRECTED ELECTIVES 30 credits

BIO 163	General Biology I	4
CS 140	Computer Science	3
ENG 300	Technical Writing	3
MATH 160	Calculus I	4
MATH 161	Calculus II	4
MATH 201	Calculus III	4
PHYS 260	General Physics I	4
PHYS 261	General Physics II	4

ADVANCED CHEMISTRY ELECTIVES 4-6 credits

CHEM 312 is a corequisite for each of following. Two courses are required.

CHEM 321	Advanced Inorganic Chemistry	3
CHEM 403	Physical Chemistry III	3
CHEM 421	Advanced Organic Chemistry	3
CHEM 499	Independent Study	3

RECOMMENDED

GER 110	Basic German I	4
GER 111	Basic German II	4
MATH 322	Differential Equations	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

CS 140	Computer Science I	3
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	5
MATH 201	Calculus III	4
PHYS 261	General Physics II	4
	General Education Course	3

JUNIOR YEAR

First Semester

CHEM 311	Physical Chemistry I	4
CHEM 327	Biochemistry I	4
ENG 300	Technical Writing	3
GER 110	Basic German I	3-4

Second Semester

CHEM 312	Physical Chemistry II	5
CHEM 320	Inorganic Chemistry	4
	General Education Course	3
GER 111	Basic German II	3-4

SENIOR YEAR

First Semester

CHEM 401	Analytical Instrumentation	4
	Advanced Chemistry Elective (see below)	3
	Chemistry and free electives	8

Second Semester

CHEM 426	Organic Spectroscopy	4
CHEM 480	Seminar in Chemistry	1
	Chemistry and free electives	9

Note: All chemistry-physics courses must be taken in the fall or spring. General education courses may be taken in pre-session or summer school.

B.S. in Chemistry

MAJOR REQUIREMENTS (Lecture and Lab) 43-44 credits

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 Electives	3-4
CHEM 480	Seminar in Chemistry*	1

DIRECTED ELECTIVES 30 credits

BIO 163	General Biology I	4
CS 140	Computer Science I	3
ENG 300	Technical Writing	3
MATH 160	Calculus I	4
MATH 161	Calculus II	4
MATH 201	Calculus III	4
PHYS 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 Chemistry*	3
CHEM 322	Environmental Chemistry	4
CHEM 328	Biochemistry II*	3
CHEM 401	Analytical Instrumentation	4
CHEM 403	Physical Chemistry III*	3
CHEM 421	Advanced Organic Chemistry*	3
CHEM 423	Chemistry of Natural Products	4
CHEM 426	Organic Spectroscopy	4
CHEM 499	Independent Study*	1-3

Course Sequence/ B.S. 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

*No lab

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Second Semester

BIO 164	General Biology II	4
CHEM 161	General Chemistry II	4
MATH 161	Calculus II	4
	General Education Course	3

*Lecture only

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	5
CS 140	Computer Science I	3
PHYS 261	General Physics II	4
	General Education Course	3

JUNIOR YEAR

First Semester

CHEM 311	Physical Chemistry I	4
CHEM 327	Biochemistry I	4
ENG 300	Technical Writing	3
	General Education Course	3

Second Semester

CHEM 312	Physical Chemistry II	5
CHEM 320	Inorganic Chemistry	4
	General Education Course	3

SENIOR YEAR

First Semester

	Advanced Chemistry	3-4
	Elective	
	General Education Course	3
	Chemistry and free electives	9

Second Semester

CHEM 480	Seminar in Chemistry	1
	Chemistry and free electives	14

Note: All chemistry-physics courses must be taken in the fall or spring. General education courses may be taken in pre-session or summer school.

CERTIFICATION REQUIREMENTS 30 credits

Students who are interested in obtaining certification in comprehensive science must complete the sequence on page 40.

CHEMISTRY MINOR 18 credits

CHEM 160	General Chemistry I	4
CHEM 161	General Chemistry II	4
	Plus an additional 10 credits in chemistry by advisement.	10

NOTE: Students choosing a minor in chemistry are strongly urged to elect the following: MATH 160, 161, PHYS 260, 261.

Courses

Unless otherwise noted, all courses are for 3 credits.

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 general education course.

Lecture only

CHEM 160-161 General Chemistry I and II—Lecture

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.

Prerequisite: MATH 115

3 credits each

CHEM 060-061 General Chemistry I and II—Lab

1 credit each

CHEM 164 College Chemistry—Lecture

Concepts of atomic and molecular structure and reactivity, rates and equilibria, and organic chemistry. Part of a terminal sequence with CHEM 165.

CHEM 064 College Chemistry—Lab

1 credit

CHEM 165 Organic Biochemistry—Lecture

Concepts of organic chemistry and biochemistry; emphasizes metabolism in the context of physiological chemistry. A terminal course.

Prerequisite: CHEM 164

4 credits

CHEM 065 Organic Biochemistry—Lab

1 credit

CHEM 201 Analytical Chemistry—Lecture

The theory and methods of quantitative analytical chemistry with emphasis on chemical equilibrium and practical laboratory experience.

Prerequisite: CHEM 161

CHEM 001 Analytical Chemistry—Lab

Must be taken with lecture (CHEM 201)

1 credit

CHEM 308-309 Organic Chemistry I and II—Lecture

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

3 credits each

CHEM 006 Organic Chemistry I—Lab

1 credit—for chemistry majors

CHEM 008 Organic Chemistry I—Lab

1 credit—for non-majors

CHEM 007 Organic Chemistry II—Lab

2 credits—for chemistry majors

CHEM 009 Organic Chemistry II—Lab

1 credit—for non-majors

CHEM 311-312 Physical Chemistry I and II—Lecture

Chemical thermodynamics, behavior of gases, reaction kinetics, electrochemistry and introductory quantum mechanics.

Prerequisites: CHEM 161, MATH 161, PHYS 261

3 credits each

CHEM 011 Physical Chemistry I—Lab

1 credit

CHEM 012 Physical Chemistry II—Lab

2 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 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 chemical technology.

Corequisite: CHEM 309

4 credits

Lecture and lab

CHEM 327 Biochemistry I

Considers the properties of metabolites, macromolecules and polyelectrolytes, and the metabolic processes occurring in living organisms.

Prerequisite: CHEM 309

4 credits

Lecture and lab

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 problems.

Prerequisites: CHEM 309 and 312

4 credits

Lecture and lab

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

Emphasizes 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.

Prerequisite: CHEM 309

Lecture only

CHEM 421 Advanced Organic Chemistry

Advanced study of organic chemistry with deliberate emphasis on synthetic reaction mechanisms, principles of stereochemistry and current advances in organic chemistry.

Prerequisites: CHEM 309 and CHEM 312

Lecture only

CHEM 423 Chemistry of Natural Products

Major classes of natural products of plant origin, their synthesis and the theory of biogenesis. Methods of identification and structural elucidation of natural products.

Prerequisite: CHEM 309

4 credits

Lecture and lab

CHEM 426 Organic Spectroscopy

Introduces the theory and application of spectroscopy to the structure determination of organic molecules.

Prerequisites: CHEM 309 and CHEM 312

4 credits

Lecture and lab

CHEM 480 Seminar

A study of specialized problems in chemistry and an introduction to the chemical literature. Making formal oral and written presentations on specific topics in chemistry is required.

1 credit

CHEM 499 Independent Study

Individual research under the supervision of a faculty member; or internship placement in industry.

1-3 credits

Physics

Professor—S. La

Assistant Professor—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 Magnetism	3
PHYS 480	Seminar	1
	Elective in Physics (by advisement)	3-4

Plus two additional courses in chemistry by advisement 8

RECOMMENDED ELECTIVES 16 credits

CS 140	Computer Science I	3
MATH 231	Statistics I for Science Majors	3
PHYS 250	Basic Electronics I	3
PHYS 304	Optics	4
PHYS 403	Modern Physics	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. 3 hours lecture, 2½ 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 are discussed. 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 hour lecture, 2 hours lab

PHYS 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, 2½ 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, 2½ hours lab

WILLIAM PATERSON COLLEGE

PHYS 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

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

3 hours lecture

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, Fresnel and Fraunhofer diffraction, diffraction gratings. Cerenkov radiation, nature and origin of polarization.

Prerequisite: PHYS 302

4 credits

3 hours lecture, 2½ 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.

3 hours lecture

PHYS 403 Modern Physics

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 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.

Prerequisite: PHYS 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

Individual research under the supervision of a faculty member.

1-3 credits

Environmental Studies

Professor—C.W. Lee

Associate Professor—R. McCallum, program director

Assistant Professor—R. Pardi

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 first-semester 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 problem-solving effort; and such major electives as topographic analysis, pollution measurements, soils and water, and computer applications. Additionally, the student must fulfill the requirements for a second major field of study.

MAJOR REQUIREMENTS 45 credits

A. Interdisciplinary Courses* 22 credits

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. Major Electives† 11 credits (minimum)

ENV 120	Physical Geology	4
ENV 150	Meteorology	3
ENV 290	Soils and Water	3
ENV 330	Community Planning and Design	3
**ENV 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, CHEM 164-165, or equivalent, is a prerequisite.

†Must include ENV 370 and/or ENV 390.

C. Major Required Courses 12 credits

ENV 301	Field Experience	3
ENV 380	Junior Seminar	2
ENV 389	Environmental Factors in Land Use	3
ENV 480	Senior 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, e.g., 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.

MAJOR REQUIREMENTS 50 credits

Earth Sciences 18 credits

ENV 120	Physical Geology	4
ENV 220	Historical Geology	4

Plus at least 10 credits chosen from the following by advisement:

ENV 225	Mineralogy and Petrology	4
ENV 315	Introduction to Oceanography	3
ENV 327	Geomorphology	3
ENV 329	Stratigraphy and Sedimentation	3
ENV 420	Structural Geology	4

Additional Required Courses (elective) 32 credits

BIO 163	General Biology I	4
BIO 164	General Biology II	4
CHEM 160	General Chemistry I	4
CHEM 161	General Chemistry II	4
MATH 160	Calculus I	4
MATH 161	Calculus II	4
PHYS 260	General Physics I	4
PHYS 261	General Physics II	4

Sample Four-Year Program for the Double Major in Environmental Studies

1. FRESHMAN YEAR 31-32 credits

Fall		
ENV 110	Environmental Foundations I	4
ENG 110	Writing Effective Prose	3
	General Education Courses	8

Spring

ENV 240	Core IIIA: Social and Human Interactions	3
COMM 210	Communication in Action	3
	Other Major Course	3
	General Education Courses	6

2. SOPHOMORE YEAR 32 credits

Fall		
ENV 241	Core IIIB: Social and Human Interactions	3
ENV 210	Core IA: Ecosystems	3
CHEM 164	College Chemistry	3
CHEM 064	College Chemistry Lab	1
	General Education Course	3
	Other Major Course	3

Spring

ENV 211	Core IB: Ecological Toxicology	3
ENV 230	Core IIA: Resources	3
CHEM 165	Organic Biochemistry	3
CHEM 065	Organic Biochemistry Lab	1
	General Education Course	3
	Other Major Course	3

3. JUNIOR YEAR 30 credits

Fall		
ENG 300	Technical Writing	3
	or	
ENG 330	Critical Writing	3
ENV 231	Core IIB: Resources	3
ENV 389	Environmental Factors in Land Use	3

Spring

ENV 301	Field Experience	3
ENV 380	Junior Seminar	2
	Environmental Elective	3-4

4. SENIOR YEAR 28-30 credits

Fall		
ENV 480	Senior Seminar	2
	Environmental Elective	3-4

Spring

ENV 481	Senior Seminar	2
	Environmental Elective	3-4

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

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 interrela-

tions 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
3 hours lecture, 2-1/2 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, sea-floor 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. 3 hours lecture

*Courses in the second major, general education, math or lab science.

WILLIAM PATERSON COLLEGE

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 ecosystem and challenges the student's curiosity to evaluate alternative solutions.

Core 1A 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 1B 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 judgement 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

3 hours lecture, 2-1/2 hours lab

ENV 225 Mineralogy and Petrology

Crystallography, morphology and physical properties of minerals, the identification and classification of the more important rock-forming and ore-forming minerals, and the origin, composition and classification of igneous, sedimentary and metamorphic rocks.

Prerequisites: ENV 115 or 120; CHEM 160, 161

4 credits

3 hours lecture, 2-1/2 hours lab

ENV 230-231 Resources (Environmental Core 1IA and 1IB)

In this sequence, resources are treated as flows of energy and matter from environmental sources, through natural and man-made 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 1IIA and 1IIB)

Core 1IIA: 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 1IIB: 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 290 Soils and Water

An introduction to the disciplines of soil science and hydrology. Soil topics include chemical and physical properties; genesis and classifications; chemistry and fertility; and water content. Water topics include the hydrologic cycle and distribution; precipitation; groundwater; surface water transport; and flooding. Focus is on management and conservation.

Prerequisite: ENV 110

2 hours lecture, 2-1/2 hours lab

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 tsunamis; 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

3 hours lecture

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.

Prerequisites: ENV 220, 225 or permission of the instructor

3 hours lecture, 2-1/2 hours lab

4 credits

ENV 329 Stratigraphy and Sedimentation

The origin, occurrence and classification of sedimentary rocks, recognition and depositional environments, introduction to the methods used in stratigraphy and geochronology, and the use of sedimentary structures in the interpretation of the geological record. Laboratory instruction in methods of textural and compositional analysis.

Prerequisite: ENV 115 or ENV 120 or permission of the instructor

3 hours lecture, 2-1/2 hours lab

4 credits

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 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 Measurement

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.

Prerequisites: ENV 225 and PHYS 255-256 or 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.

Prerequisite: A course in computer science
2 hours lecture, 1-1/2 hours lab

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 stu-

dent'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.

Department of Mathematics

Professors—E. Goldstein, M. Kaplan (chairperson), E. Phadia, R. Stevenson

Associate Professors—G. Dixon, B. Levine, B. Eastman

Assistant Professors—N. Assimakopoulos, J. Coomes, P. Darko, H. Dehlinger, C. Hurwitz, S. Hyman, M. Jani, D. Kalish, 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 in mathematics, has three tracks: pure mathematics, applied mathematics and mathematics with a minor either in statistics or computer science. A secondary school certification program is also available.

A mathematics major is expected to take MATH 160 **Calculus I** and MATH 161 **Calculus II** in the freshman year. Placement in mathematics courses is based on the New Jersey Basic Skills test scores and high school records. Students whose scores do not demonstrate readiness for MATH 160 are required to take preparatory courses which do not count toward the mathematics major.

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	4
MATH 161	Calculus II	4
MATH 200	Logic and Discrete Mathematics	3
MATH 201	Calculus III	4
MATH 202	Linear Algebra	3
MATH 301	Modern Algebra	3
MATH 302	Advanced Calculus I	3
Plus nine additional credits from among the following:		
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
MATH 325	Topics from Applied Mathematics	3
MATH 361	Combinatorial Analysis	3
MATH 380	Mathematical Models and Applications	3
MATH 399	Selected topics	3-4
MATH 401	Applied Algebra	3
MATH 410	Life Contingencies	3
MATH 421	Mathematical Statistics	3
MATH 422	Complex Analysis	3
MATH 423	Real Analysis	3
MATH 424	Introduction to Numerical Analysis	3
MATH 425	Introduction to Topology	3
MATH 499	Independent Study	3

CERTIFICATION REQUIREMENTS 36 credits

Students interested in obtaining teacher certification in mathematics must complete the following courses and additional courses as prescribed by the School of Education. See, pg. 40.

MATH 323	Foundations of Geometry	3
MATH 324	Probability	3

WILLIAM PATERSON COLLEGE

MINOR REQUIREMENTS 20-21 credits

MATH 160	Calculus I	4
MATH 161	Calculus II	4
MATH 202	Linear Algebra	3

Plus three additional courses from those listed above under the mathematics major. At least two of these 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 and	3
MATH 150	Applied Calculus I	3
MATH 160	Calculus I	4
and		
MATH 161	Calculus II	4

Plus nine credits chosen from the following, or others by advisement.

Electives 9 credits

MATH 250	Applied Calculus II	3
MATH 218	Mathematics of Finance	3
MATH 232	Statistical Computing	3
MATH 380	Mathematical Models and Applications	3

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

MATH 120	Finite Math	3
or		
MATH 202	Linear Algebra	3
MATH 150	Applied Calculus I	3
MATH 230	Statistics I	3
MATH 332	Statistical Computing	3
MATH 324	Probability	3
or		
MATH 430	Probabilistic Models	3
MATH 421	Mathematical Statistics	3

For a Mathematics Major

MATH 230	Statistics I	3
MATH 324	Probability	3
MATH 332	Statistical Computing	3
MATH 399	Topics in Applied Statistics	3
MATH 421	Mathematical Statistics	3

Plus one of the following:

Any 100-level computer science course	3	
BUS 470	An Introduction to Operations Research	3
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

Unless otherwise noted, all courses are for 3 credits.

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 complete, college-level coverage of algebra, with an emphasis on the logical development of the subject. Topics include algebraic fractions, laws of exponents and roots, advanced equation solving, graphing, series and sequences and mathematical induction.

MATH 116 Precalculus

The study of relations and functions, especially linear, polynomial, rational, exponential, logarithmic and trigonometric functions; complex numbers.

Prerequisite: Math 115 or the 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 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 and trigonometric functions and applications, differentials, indeterminate forms and antiderivatives. Prerequisite: four years of college preparatory mathematics or equivalent
4 credits

MATH 161 Calculus II

Fundamental theorem of the calculus; integration, applications of the integral; exponential and logarithmic functions and their derivatives; improper integrals; Taylor polynomials; trigonometric integrals; techniques for 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, 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; nonparametric 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: Actuarial Examination I

Designed to prepare students for the first actuarial examination. Problems from past examinations are discussed. Includes an in-depth 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 \mathbb{R}^n , 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: Systems of first order elementary numerical methods 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; unimodal 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 theorem, Cauchy integral formula, power series and conformal mapping.

MATH 423 Real Analysis

Riemann integration, measurable sets, measurable functions, Lebesgue 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

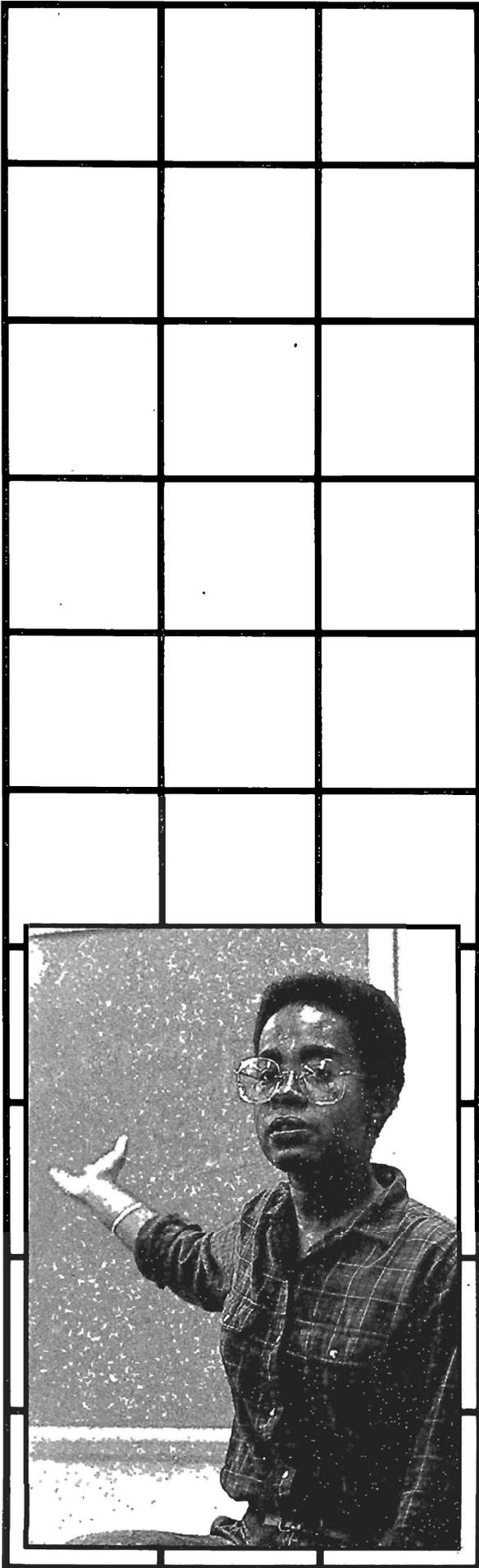
MATH 425 Introduction to Topology

Topological spaces and their properties; Homeomorphisms and invariant properties; separation and countability axioms; network theory and applications.

Prerequisite: MATH 302

MATH 499 Independent Study

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



**THE
SCHOOL
OF
SOCIAL
SCIENCE**

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.

Highly motivated students may enroll in an honors program in biopsychology. The School of Social Science also offers internships in areas such as social work, labor studies, political science and policy analysis. These programs, along with independent study options and departmental seminars, encourage the development of unique theoretical and practical competencies as a part of the student's total educational experience.

Pre-law advisement is offered in conjunction with the School of Management.

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: 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 biology, chemistry, nursing, psychology and sociology, this program is highly recommended for students

planning graduate study—including pre-medical/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 credits

Biology
BIO 163-164 General Biology I and II 8
or
BIO 112-113 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

Computer Science
CS 130 Introduction to Computers/BASIC 3
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 8
or
MATH 230 Statistics for Science Majors 3

CORE COURSES 14 credits
BIPY 474 Neuroscience 4
BIPY 475 Behavior Genetics 4
Topical Electives in biopsychology (one or more) 3
PSY 353 Physiological Psychology 3

MAJOR ELECTIVES 10-12 credits

Elective courses are chosen by advisement.

Recommended general education courses:

SOC 130 Introduction to Anthropology 3
PHIL 110 Introduction to Philosophy 3

or
PHIL 140 Introduction to Inquiry 3

Courses

Unless otherwise noted, all courses are for 3 credits.

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 gene-environment interaction as a determinant 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 Behavior

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

*Choose from sociobiology, biofeedback, psychopharmacology, biorhythms in physiology and behavior, and special current topics as announced.

WILLIAM PATERSON COLLEGE

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 21 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 36 credits

POL 120	American Government and Politics	3
POL 200	Classical and Medieval Political Theory	3
or		
POL 201	Early Modern Political Theory	3
POL 230	Comparative Politics: Development and Modernization	3
POL 240	International Relations	3
POL 261	Research Methods in Political Science	3
POL 480	Seminar in Political Science (open to juniors and seniors; different seminars are offered each semester)	3

Plus 18 credits of additional political science electives.

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 and Politics	3

Plus 12 credits of additional political science electives by advisement.

CERTIFICATION REQUIREMENTS 30 credits

Students interested in obtaining teacher certification in social studies must complete the requirements listed on page 40 of this catalog.

Courses

Unless otherwise noted, all courses are for 3 credits.

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—value-free 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 Politics

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 the 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 politics 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 do research in political science. Topics include word processing, library resources and how to write a research paper.

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 party-state, 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-economic 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 left. 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. Krate, G. Leventhal, B. Silverstein, D. Sugarman, D. Vardiman (chairperson), R. White

Associate Professors—S. Boone, T. Silverman-Dresner, J. Green, D. Grey, T. Haver, A. Lynch, A. Montare, B. Pakizegi, D. Skillin

Assistant Professors—N. Kressel, D. Trueman

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 faculty-directed 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 17 credits

PSY 110	General Psychology	3
PSY 202-203	Experimental Psychology I and II	8
PSY 230	History and Systems of Psychology	3
PSY 480	Seminar	3

B. Track Courses 15-16 credits

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. Additional Required Courses 6-7 credits

Two additional courses from any of the five tracks; or, one course plus an independent study. Courses can be from a single track to provide the opportunity for depth.

DIRECTED ELECTIVES 7 credits

BIO 114	Applied Anatomy and Physiology	4
PSY 208	Computer Statistical Applications in Psychology	3

PSYCHOLOGY TRACKS—Select one course from each of the following tracks:

1. Developmental

PSY 210*	Developmental Psychology	3
PSY 320	Psychology of Adolescence	3
PSY 330	Psychology of Aging	3
PSY 340	Infancy	3
PSY 352	Psycholinguistics	3

*Prerequisite to all courses in the developmental track.

2. Information Processing

PSY 250	Psychology of Consciousness	3
PSY 352	Psycholinguistics	3
PSY 354	Psychology of Learning	3
PSY 375	Human Information Processing	3
PSY 382	Operant Modification of Behavior	3
PSY 420	Perception	3
PSY 450	Cybernetic Psychology	3

3. Social

PSY 120	Psychology of Social Issues	3
PSY 130	Psychology in Business and Industry	3
PSY 220	Social Psychology	3
PSY 311	Psychology of Women	3
PSY 360	Environmental Psychology	3
PSY 380	Field Methods in Psychology	3
PSY 381	Psychology of Aggression	3

4. Physiological

BIPY 474	Introduction to Neuroscience	4
BIPY 475	Behavior Genetics	4
BIPY 476	Developmental Biopsychology	3
BIPY 479	Biorhythms in Physiology and Behavior	3
BIPY 499	Current Topics in Biopsychology	3
PSY 353†	Physiological Psychology	3
PSY 415	Psychopharmacology	3
PSY 460	Comparative Psychology	3

†Prerequisite to all courses in the physiological track.

5. Clinical/Personality

PSY 310	Psychological Testing	3
PSY 322	Group Dynamics (p/f grades only)	3
PSY 350	Theories of Personality	3
PSY 351	Abnormal Psychology	3
PSY 410	Introduction to Counseling and Psychotherapy	3

MINOR REQUIREMENTS 18 credits

PSY 110	General Psychology	3
PSY 210	Developmental Psychology	3
PSY 220	Social Psychology	3
PSY 230	History and Systems of Psychology	3

Plus two additional psychology courses 6 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 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 208 Computer Statistical Applications in Psychology

An introduction to computer statistical applications in modern psychology emphasizing the use of statistical analysis software. Acquaints students with similarities and differences between statistical analysis software. Computer lab sessions provide experience in the application of lecture material.

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 225 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 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 260 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 290 Child Abuse and Neglect

The problem of the physical and psychological abuse and neglect of children is examined from intrapersonal, interpersonal and social perspectives. The multivariable etiology of the problem, and attempts at intervention, prediction and prevention are discussed. Contributions from animal studies and cross-cultural studies are used to clarify issues in the area. Consequences of abuse and neglect for the cognitive, physical and social emotional development of children are analyzed.

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 Infancy

A 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/her 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. Prerequisites: 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/her physical environment, both natural and man-made. Includes spatial features of social interaction, the behavioral properties of places, and locational behavior of individuals and groups.

PSY 375 Cognitive Psychology

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 aggression 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

The course is designed to introduce students to counseling and psychotherapy as one approach in clinical psychology. The material covered includes a brief review of personality theories as well as models of counseling and psychotherapy derived from those theories. When appropriate, students participate in counseling and psychotherapy simulations. Requirements include extensive reading, a final paper and two written examinations.

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

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 neural networks, and the effects of learning upon perception in humans.

Prerequisite: PSY 353

PSY 450 Cybernetic Psychology

The basic concepts of cybernetics—feedback, 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 380

WILLIAM PATERSON COLLEGE

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

Professors—P. Chao, V. Parrillo (chairperson), J. Stimson, P. Vouras, M. Weil
Associate Professors—J. Fitzsimmons, R. Glassman, E. Kedar, R. Martorella, J. Pollak, S.M. Rhim, P. Stein
Assistant Professors—A. Barrow, C. Flint, D. Harriford, C. Magarelli

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

SOC 110	Principles of Sociology	3
SOC 130	Introduction to Anthropology	3
SOC 254	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 advisement:		
SOC 200	Human Races	3
SOC 201	Social Problems	3
SOC 203	Marriage and the Family	3
SOC 210	Archaeology	3
SOC 220	Introduction to Labor Studies	3
SOC 250	Urban Sociology	3

SOC 251	Minority Groups in America	3
SOC 253	Elementary Sociological Statistics	3
SOC 255	Qualitative Sociological Methods	3
SOC 256	Political Sociology	3
SOC 257	Sex and Taboo in Primitive Societies	3
SOC 260	Myth and Folklore and the Modern World	3
SOC 265	Human Sexuality	3
SOC 290	Social Work and Welfare Policy	3
SOC 291	Social Work Practice	3
SOC 302	Biological Anthropology	3
SOC 303	History of Social Theory	3
SOC 310	Sociology of War	3
SOC 320	Sociology of Labor	3
SOC 323	Labor Organizations and Organizing	3
SOC 324	Sociology of Religion	3
SOC 325	Sociology of Social Movements	3
SOC 326	American Religion	3
SOC 327	Collective Behavior	3
SOC 328	Sociology of the Arts	3
SOC 329	Educational Anthropology	3
SOC 330	Sociology of Death and Grief	3
SOC 331	Evaluation of Social Action	3
SOC 333	Sociology of Adulthood	3
SOC 334	Sociology of Sports	3
SOC 335	Sociology of Law	3
SOC 341	Primitive and Modern Law	3
SOC 342	East Asian Ethnology	3
SOC 354	Social Stratification	3
SOC 356	Urban Anthropology	3
SOC 359	Cultural Change in Latin America	3
SOC 360	Self and Society	3
SOC 361	Psychological Anthropology	3
SOC 365	Social Deviance	3
SOC 370	Population and Society	3
SOC 371	Forecasting Future Societies	3
SOC 381	Sociology of Socialization	3
SOC 390	Sociology of Health and Illness	3
SOC 392	Sociology of Aging	3
SOC 402	Modern Sociological Theory	3
SOC 406	Social and Environmental Change	3
SOC 408	Indians of North America	3
SOC 421	The Sociology of Revolution	3
SOC 422	Sociology of Organizations	3
SOC 423	Labor Law: Negotiation and Conflict	3
SOC 450	Shamans, Witches and Magic	3
SOC 455	Criminology	3
SOC 456	Juvenile Delinquency	3
SOC 460	Sociology of Corrections	3

SOC 490	Internship	3
SOC 499	Independent Study	1-3

MINOR REQUIREMENTS 18 credits

SOC 110	Principles of Sociology	3
SOC 130	Introduction to Anthropology	3
SOC 303	History of Social Theory	3
SOC 402	Modern Sociological Theory	3

Plus an additional 9 credits in sociology/anthropology courses by advisement.

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 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 inter-relatedness of social problems and the role of value-beliefs are stressed.

SOC 203 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 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 Social Work and Welfare Policy

An introduction to social welfare and the social work profession. Attention is given to current issues, programs, policies and the various settings for social work practice.

SOC 291 Social Work Practice

Designed for both cognitive and experiential learning, this course conceptualizes a generic practice model for the helping process and demonstrates techniques through role-playing.

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, Durkheim, 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 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 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 329 Educational Anthropology

This course deals with a study of current theories, processes and concepts in the anthropology of education. Anthropological research and field techniques, as applied to the study of education, is examined from a cross-cultural perspective. A major focus is on contemporary education in the United States.

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 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 334 Sociology of Sports

This course analyzes the relationship between sport, society, social institutions and

WILLIAM PATERSON COLLEGE

social interaction; cultural, social and situational factors affecting the dynamics of sport; social processes; and social change.

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 societies.

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 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 356 Urban Anthropology

This course examines the ecological and social changes that occur from urban growth from a cross-cultural perspective.

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 the 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 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 Sociology of Health and Illness

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 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 421 The Sociology of Revolution

Examines revolution as a social phenomenon. Particular attention is given to contrasting the theories of revolution of the traditional Marxian urban worker-centered insurrection with Third World guerrilla warfare groups.

SOC 422 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 423 Labor Law: Negotiation and Conflict

An analysis of private and public sector labor relations, with an emphasis on law, practice and policy. Students participate in practical collective bargaining and arbitration exercises as part of the learning experience.

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 Criminology

An examination of the various components of the criminal justice system and how they reflect societal values and attitudes.

SOC 456 Juvenile Delinquency

A comprehensive study of the problems of delinquency. Blends all theoretical approaches with pertinent data in its analysis of causes, treatment and control.

SOC 460 Sociology of Corrections

An in-depth analysis of penal institutions from a socio-historical perspective. Included are how prisons emerged, the prisonization process, women's prisons and the rehabilitation re-entry process.

SOC 490 Internship

This course provides qualified students with practical work experience in an applied sociology or anthropology setting. Periodic conferences and a monthly seminar are an integral part of this program.

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.

MAJOR REQUIREMENTS		30 credits
GEO 120	Man's Physical World	3
GEO 130	Human Ecology	3

Plus three of the following:

GEO 230	Population and Settlement	3
GEO 233	Geography of World Economic Activity	3
GEO 300	Geopolitics	3
GEO 401	Cartography	3

Plus five of the following:

GEO 204	N.J. Wildlife at the Crossroads	3
GEO 230	Population and Settlement Geography	3
GEO 233	Geography of World Economic Activity	3
GEO 250	The Historical Geography of the Bible Lands	3
GEO 300	Geopolitics	3
GEO 331	Asia's Geography and Problems	3
GEO 332	Middle East's Geography and Problems	3
GEO 333	Europe's Geography and Problems	3
GEO 334	Africa's Geography and Problems	3
GEO 335	Latin America's Geography and Problems	3
GEO 336	Soviet Union's Geography and Problems	3
GEO 337	Australia and Oceania's Geography and Problems	3
GEO 338	United States and Canada's Geography and Problems	3
GEO 339	New Jersey's Geography and Problems	3
GEO 365	Man, Nature and Wildlife	3
GEO 404	Polar and Arctic Geography	3
GEO 405	The Geography of Oceans	3
GEO 410	The Historical Geography of the U.S.	3
GEO 416	Military Geography of the Twentieth Century	3
GEO 480	Senior Seminar	3
GEO 499	Independent Study	1-3

MINOR REQUIREMENTS 18 credits

GEO 120	Man's Physical World	3
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Plus 15 credits in geography by advisement.

CERTIFICATION REQUIREMENTS 30 credits

Students interested in obtaining teacher certification in social studies must complete the requirements listed on page 40 of this catalog.

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 man-land-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 331-339 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 334 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 biogeography 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 locations, 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

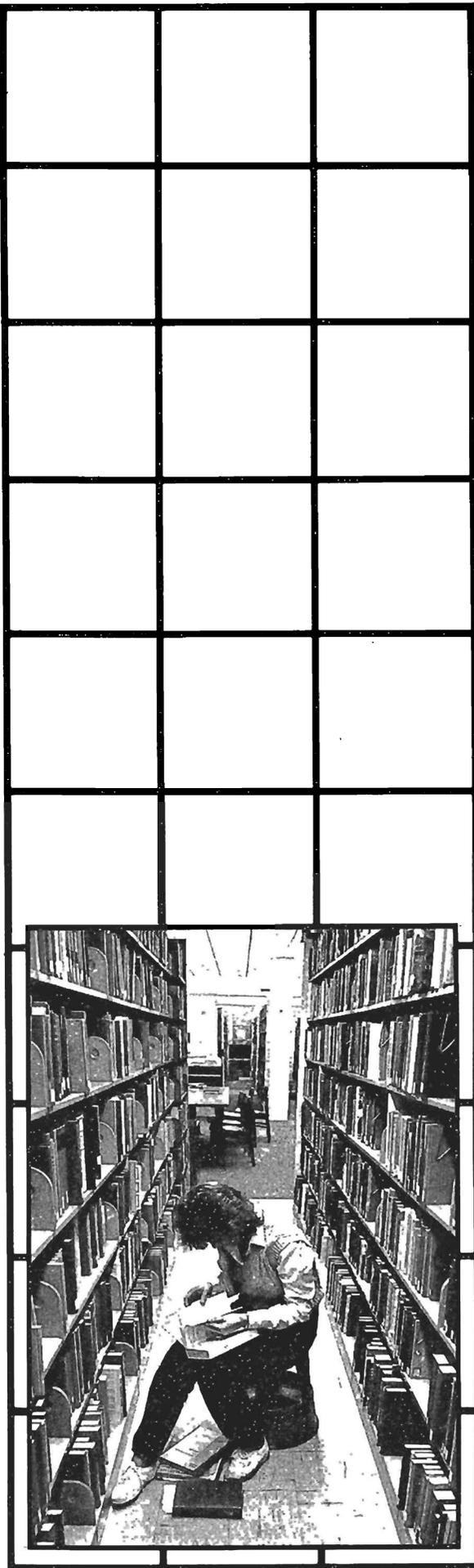
A study of the major conflicts of this century utilizing concepts and methodologies of physical, political, economic and social geography. In essence, an in-depth investigation of historical geography.

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



DIRECTORIES

Directories

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 Vice President for Academic Affairs (Acting)
 Vice President for Administration and Finance
 Vice President for Student Services
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 Dean, School of Education and Community Service
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 Dean, School of Humanities
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 Dean, School of Science
 Dean, School of Social Science
 Dean of Special Programs
 Dean of Students
 Executive Assistant to the President
 Associate Vice President for Administration
 Associate Dean, Educational Services
 Associate Dean, Special Programs
 Assistant to the President and Board of Trustees
 Special Assistant to the President for Minority Education
 Assistant to the Vice President for Student Services
 Director, Undergraduate and Graduate Admissions
 Director, Affirmative Action
 Director, Athletics
 Director, Business Services
 Director, Campus Police/Security Operations
 Director, Career Services
 Director, Center for Academic Support
 Director, College Relations
 Director, Continuing Education
 Director, Data Processing
 Director, Development and Alumni Affairs
 Director, Educational Opportunity Fund Program
 Director, Facilities
 Director, Financial Aid
 Director, Residence Life
 Director, Institutional Planning & Research
 Director, Library Services
 Director, Management Information Systems
 Director, Student Activities
 Director, Field Laboratory Experiences
 Director, WPC Foundation and Student Center
 College Physician
 Personnel Officer
 Registrar

Arnold Speert
 Tobin Barrozo
 Peter Spiridon
 Dominic Baccollo
 Jay Ludwig
 Joan Tuohy Tetens
 Suzanne Law Hawes
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 Vacant
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 Michael Driscoll
 Carlos Perez
 Edward Veasey
 Thomas Di Micelli
 Kevin Nelson
 Robert Kroeckel
 Robert Goldberg
 Charles Jury
 Henry Morris
 John Huber
 William Dickerson
 Procop Harami
 Muriel Orlovsky
 Mark Evangelista

Accreditation

American Speech-Language-Hearing Association
 Middle States Association of Colleges and Secondary Schools
 National Council for Accreditation of Teacher Education
 National League for Nursing
 New Jersey State Department of Higher Education
 New Jersey Board of Nursing
 National Association of Schools of Music

New Jersey Board of Higher Education

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Memberships

American Assembly of Collegiate Schools of Business
 American Association for Higher Education
 American Association of Colleges for Teacher Education
 American Association of College Registrars and Admissions Officers
 American Association of State Colleges and Universities
 American Association of University Women
 American Council on Education
 American Mathematical Society
 American Personnel and Guidance Association
 American Philosophical Association
 American Speech-Language-Hearing Association
 Arts Council of North West Essex
 Association for School, College and University Staffing
 Association for University Business and Economic Research
 Association of Audiovisual Technicians
 Association of Departments of English
 Association of Departments of Foreign Languages
 Association of Governing Boards
 Association of Physical Plant Administrators
 Bilingual Education Paper Series
 College Entrance Examination Board
 College Placement Council
 Council for the Advancement and Support of Education
 Council of Basic Education
 Eastern Association of College and University Business Officers
 International Council of Fine Arts Deans
 International Education Journal
 Mid-Atlantic Association for School, College and University Staffing
 National Association for Affirmative Action in Higher Education
 National Association for the Exchange of Industrial Resources
 National Association of College Admissions Counselors
 National Association of College and University Business Officers
 National Association of Educational Buyers
 National Association of Schools of Music
 National Association of Student Personnel Administrators
 National Center for the Study of Collective Bargaining in Higher Education
 National Collegiate Honors Council
 National Council for Black Studies
 National Council of Art Administration
 National Fire Protectors Association
 National League for Nursing
 National Student Exchange Program
 New Jersey Association of Colleges and Universities
 New Jersey Association of Colleges for Teacher Education
 New Jersey Association of Veterans Programs Administration
 New Jersey College and University Public Safety Association
 New Jersey Marine Science Consortium
 North American Association of Summer Sessions

Paterson Chamber of Commerce
 Society for Intercultural Education Training and Research
 Teacher Education Council of State Colleges and Universities
 Wayne Chamber of Commerce
 WBGO

Professional Staff

ELLSWORTH J. ABARE, Associate Professor, Special Education and Pupil Personnel Services. A.B., University of California at Davis; M.A., Teachers College, Columbia University. Appointed February 1967.
DIANE ACKERMAN, Assistant Director, Financial Aid. B.A., William Paterson College. Appointed January 1979.
ANGELA M. AGUIRRE, Assistant Professor, Languages and Cultures. B.A., M. Phil., CUNY; M.A., Queens College; Ph.D., CUNY. Appointed September 1980.
HUGH AITKEN, Professor, Music. B.S., M.S., Juilliard School of Music. Appointed September 1970.
LAURA AITKEN, Associate Professor, Curriculum and Instruction. B.A., Colby College; M.A., Wellesley College; M.S., New York University; Ph.D., Fordham University. Appointed September 1970.
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CASIMIR ANYANWU, Professor, Accounting and Law. B.S., St. Joseph's College; M.S., University of Wisconsin; Ph.D., University of Missouri. Appointed September 1984.
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WILLIAM PATERSON COLLEGE

- RAYMOND J. DES ROCHES**, Professor, Music. B.A., M.A., Manhattan School of Music. Appointed September 1970.
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- WILLIAM DICKERSON**, Executive Director, William Paterson College Foundation and Student Center. B.S., SUNY Cortland. Appointed August 1971.
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- GEORGE R. DIXON**, Associate Professor, Mathematics. A.B., Montclair State College; M.A., Teachers College, Columbia University. Appointed September 1960.
- GOPAL C. DORAI**, Professor, Economics and Finance. B.A., Panjab University; M.A., University of Delhi; Ph.D., Wayne State University. Appointed September 1974.
- MILDRED I. DOUGHERTY**, Associate Professor, Curriculum and Instruction. B.Ed., University of Alberta; M.A., William Paterson College; Ed.D., Rutgers University. Appointed September 1968.
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- MICHAEL DRISCOLL**, Director of Development and Alumni Affairs. B.A., William Paterson College; M.A., Seton Hall University. Appointed August 1982.
- DONALD P. DUCLOS**, Professor, English. A.B., M.A., SUNY Albany; Ph.D., University of Michigan. Appointed September 1961.
- WILLIAM DUFFY**, Librarian 1. A.B., M.A., Seton Hall University; M.L.S., Rutgers University. Appointed March 1980.
- LARRY DUNCAN**, Accountant 2, Business Services. B.A., Lincoln University. Appointed August 1978.
- EDWARD DWYER**, Supervisor, Purchasing and Services. B.A., St. Francis College-New York State College. Appointed October 1973.
- LINDA J. DYE**, Associate Professor, Movement Science and Leisure Studies. B.S., Bowling Green State University; M.S., Springfield College; Ph.D., New York University. Appointed September 1967.
- ANA N. EAPEN**, Professor, Economics and Finance. B.S., University of the Philippines; M.A., Ph.D., University of Michigan. Appointed September 1973.
- ARTHUR EASON**, Director, Athletics. B.A., Montclair State College; M.A., William Paterson College. Appointed September 1970.
- BEATRICE E. EASTMAN**, Associate 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.
- CATARINA T.F. EDINGER**, Assistant Professor, English. B.A., M.A., Ph.D., University of Sao Paulo. Appointed September 1985.
- DON ALDEN EDWARDS**, Associate Professor, English. B.A., Carroll College; M.S., University of Wisconsin. Appointed September 1956.
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- WILLIAM E. ENGELS**, Associate Professor, Curriculum and Instruction. B.S., Columbia University; M.A., Teachers College, Columbia University. Appointed September 1963.
- MARIA ENTZMINGER**, Assistant Director of Admissions. B.A., Ramapo College. Appointed October 1980.
- MARILYN ETINGER**, Assistant Professor, Economics and Finance. B.A., Goucher College; M.A., Columbia University. Appointed September 1984.
- MARK EVANGELISTA**, Registrar. B.A., M.Ed., William Paterson College. Appointed September 1970.
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- RICHARD A. FOLEY**, Associate Professor, Music. B.M., Oberlin College; M.A., Columbia University; D.M.A., University of Michigan. Appointed September 1967-69. Appointed September 1973.
- DONATO D. FORNUTO**, Professor, Music. B.A., City College CUNY; M.A., Hunter College CUNY; Ed.D., Teachers College, Columbia University. Appointed September 1967.
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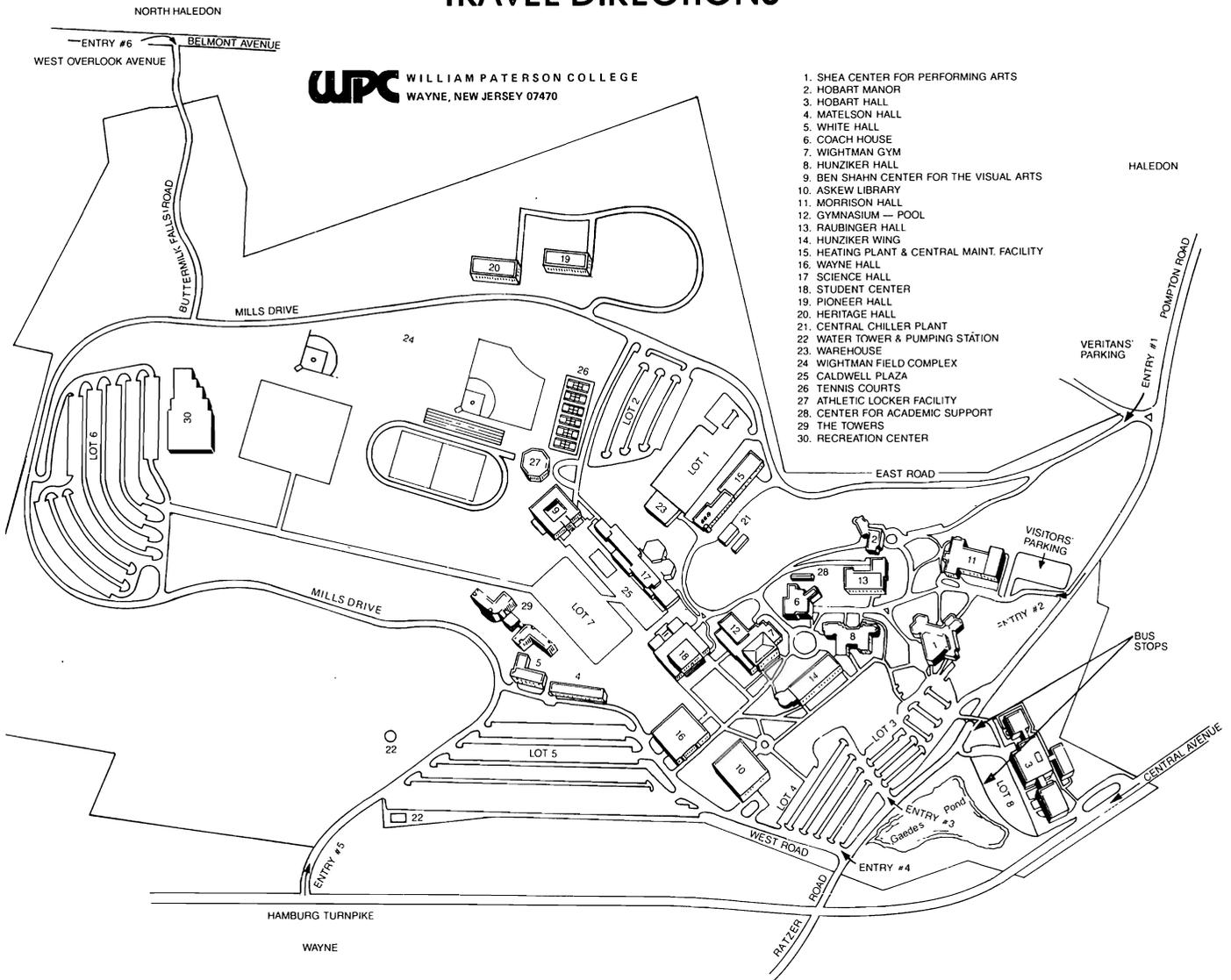
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INDEX

	Page		
Academic Honors	14	Educational Leadership,	
Academic Regulations	13	Dept. of	39
Academic Support Services	11	Educational Opportunity Fund	
Academic Standing	14	Program	17
Accounting	82	Educational and Support	
Accounting and Law, Dept. of	82	Services	14
Accreditation	117	Elementary Education	42
Adapted Physical Education	45	English as a Second	
Administration	117	Language	75
Admission	5	English, Dept. of	64
Advisement	11	Environmental Studies	100
African and Afro-American Studies,		Exercise Physiology	46
Dept. of	61	Field Laboratory Experiences	38
Alcohol Review Board	10	Financial Aid	7
Alumni Association	11	French	71
Aquatics	46	Freshman Basic Skills Program	15
Art, Dept. of	20	General Curriculum	
Arts and Communication,		Requirements	15
School of	20	General Education	
Associate Education Media		Requirements	100
Specialist Endorsement	44	Geography	114
Athletic Training	45	German	76
Athletics	10	Grade Regulations	13
Attendance	13	Graduate Programs	18
Basic Skills	15	Greek	76
Beacon	10	Health Education Certification	
Bilingual Education	75	Endorsement	45
Biology, Dept. of	94	Health Professions and Nursing,	
Biopsychology Honors		School of	54
Program	93, 107	Health Science, Dept. of	54
Board of Trustees	117	Health Services	12
Campus Buildings	4	Hebrew	76
Campus Map	128	Helpline	10
Campus Visits	6	Helpline Drop-in Center	10
Career Services	11	History, Dept. of	67
Center for Academic Support	11	Honor Societies	10
Chemistry	97	Honors	14
Chemistry, Physics and Environmental		Honors Programs	18
Science, Dept. of	97	Housing	12
Child Care Center	11	Humanities Honors Program	60
Chinese	75	Humanities Interdisciplinary	
Class Standing	13	Courses	61
Clubs and Activities	10	Humanities, School of	60
Coaching and Officiating	46	Independent Study	16
Communication, Dept. of	25	Institutional Support	
Communication Disorders,		Services	11
Dept. of	57	Insurance	7
Computer Science and		Fraternity/Sorority Council	10
Quantitative Analysis, Dept. of	84	International Management	
Continuing Education	18	Honors Program	90
Counseling Services	11	International Students	6
Course Credit Load	14	Italian	77
Credit	13	Japanese	77
Credit by Examination	16	Jazz Studies	29
Curriculum Requirements	15	Junior Year Abroad Program	71
Curriculum and Instruction,		Languages and Cultures,	
Dept. of	40	Dept. of	70
Dance	45	Latin	77
Degree Requirements	15	Law	83
Dining Services	12	Leisure Studies	46
Disabled Students Services	12	Liberal Studies Major	20, 101, 107
Early Childhood Education	41	Management, School of	82
Economics and Finance	86	Marketing and Management Sciences,	
Education and Community		Dept. of	87
Service, School of	38	Mathematics, Dept. of	103
		Memberships	118
		Movement Science and Leisure	
		Studies, Dept. of	44
		Movement Sciences, Concentrations	
		for Majors in	45
		Movement Sciences	46
		Music, Dept. of	29
		New Jersey Board of	
		Higher Education	117
		New Jersey Marine Sciences	
		Consortium	103
		Nursing, Dept. of	55
		Pass/Fail Option	13
		Philosophy, Dept. of	78
		Physical Education Certification	
		Requirements	45
		Physics	99
		Pioneer Yearbook	10
		Political Science, Dept. of	108
		Portuguese	77
		Pre-Dental Preparation	93
		Pre-Law Preparation	17
		Pre-Medical Preparation	93
		Pre-Professional Programs	93
		Professional Staff	118
		Psychology, Dept. of	110
		Public Administration	88
		Reading Teacher Endorsement	43
		Rec Center	10
		Recreation and Leisure Studies	46
		Residential Facilities	12
		Russian	77
		Scholarships	8
		Science, School of	93
		Secondary Education	40
		Semester Abroad	18
		Service Clubs	10
		Social Science, School of	107
		Sociology/Anthropology	112
		Sociology, Anthropology and	
		Geography, Dept. of	112
		Spanish	72
		Special Education Concentration	51
		Special Education and Pupil	
		Personnel Services, Dept. of	50
		Special Programs	17
		Speech Pathology	57
		Sports and Recreation	10
		Statistics	104
		Student Activities Programming	
		Board	10
		Student Center	9
		Student Government Association	9
		Student Life	9
		Summer Sessions	18
		Theatre, Dept. of	35
		Tuition	6
		Undergraduate Degree	
		Requirements	15
		Veterans Affairs	8, 12
		Veterinary Medicine	93
		William Paterson College	4
		Women's Studies	39
		Women's Center	10
		WPSC Radio	10
		Yearbook	10

CAMPUS MAP AND TRAVEL DIRECTIONS



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FROM NEW YORK CITY (VIA GEORGE WASHINGTON BRIDGE OR LINCOLN TUNNEL) OR EASTERN NEW JERSEY:

1. Take Route 46 West, or Route 80 West, or Route 3 West to 46 West. Proceed to Route 23 North. * Continue on Route 23 North approximately one mile to Alps Road. Turn right and proceed approximately 2 miles to traffic light at intersection of Alps and Ratzer Roads. Turn right on Ratzer and proceed approximately two miles to traffic light at intersection of Ratzer Road and Hamburg Turnpike. After crossing intersection, Ratzer becomes Pompton Road. Proceed about 200 yards. College entry gates four through one are on left along Pompton Road.

FROM SOUTHERN AND CENTRAL NEW JERSEY VIA THE GARDEN STATE PARKWAY:

2. Take Garden State Parkway North to Exit 153B (on left), marked Route 3 and 46, West Paterson. Take Route 3 to Route 46 West. Follow directions in "Number 1" above.

FROM WESTERN NEW JERSEY:

3. Take Route 80 East to Exit 53. Proceed one-half mile on Route 46 East. Exit on Riverview Drive, Wayne. Proceed to fourth traffic light. Turn right on Valley Road. Proceed to fourth traffic light. Turn right on Ratzer Road and proceed approximately two miles to traffic light at intersection of Ratzer Road and Hamburg Turnpike. After crossing intersection, Ratzer becomes Pompton Road. Proceed about 200 yards. College entry gates four through one are on left along Pompton Road.

4. Take Route 46 East to Route 23 North. Follow directions from * in "Number 1" above.

FROM NORTHERN NEW JERSEY:

5. Take Route 23 South to first exit past Fuddrucker's in Wayne (U Turn). Take Route 23 North to Ratzer Road (approximately 1/8 mi. on your right). Proceed approximately four miles to third traffic light at intersection of Ratzer Road and Hamburg Turnpike. After crossing intersection, Ratzer becomes Pompton Road. Proceed about 200 yards. College entry gates four through one are on left along Pompton Road.

6. Take Route 208 South to exit marked Colonial 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. Proceed on Belmont about two miles to traffic light (Dunkin' Donuts on left). Turn right on Pompton Road. Proceed up hill approximately one-half mile. College entry gates one through four are on right along Pompton Road.

FROM NORTHERN NEW JERSEY (VIA THE GARDEN STATE PARKWAY):

7. 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 surrounding areas. Transport of New Jersey P54 runs directly to the College. For further information on bus service, telephone 1-800-772-2222.

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