



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

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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.

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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.

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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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WILLIAM PATERSON COLLEGE UNDERGRADUATE CATALOG 1981-82

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Academic Calendar 1981-82

Monday

Tuesday

Tuesday

Tuesday

Monday

Monday

Monday

Monday

Tuesday

Tuesday

Thursday

Saturday

Inclusive

Wednesday

Wednesday

Friday

Wednesday

Wednesday

Friday

Fall Semester

September 7 September 8 September 8 September 8

October 12 October 12 October 12 October 23 October 26

November 3 November 11 November 24

November 25

November 26 November 27 November 28

December 17-23 December 23 December 23 December 24-

January 10 Inclusive December 25 Friday

Friday January 1

Spring Semester

January 11 Monday January 11 Monday January 11 Monday January 15 Friday February 15 Monday February 22 Monday February 22 Monday March 12 Friday March 15 Monday April 4-11 Inclusive May 4-10 Inclusive May 11-18 Inclusive May 14 Friday May 18 Tuesday

May 18 Tuesday May 20 Thursday

Pre-session 1982

| May 24 | Monday |
|----------|----------|
| May 25 | Tuesday |
| May 31 . | Monday |
| | |
| June 24 | Thursday |

Summer Session 1982

| June 28 June 29 | Monday Tuesday | Summer session registration First day of classes |
|--------------------|-------------------|---|
| July 5 | Monday | Independence Day, College closed |
| August 10 | Tuesday | Summer session ends |

Last day for refund for withdrawal from fall semester Last day to drop a course Columbus Day, College open, classes in session First quarter student teaching ends Second quarter student teaching begins Election Day, College open, classes in session Veterans' Day, College open, classes in session Tuesday classes cancelled and replaced by Thursday classes Wednesday classes cancelled and replaced by Friday classes Thanksgiving Day, College closed Classes cancelled, College open

Last day to drop a course with 100% tuition refund

Classes cancelled Examination period and/or continued class instruction Fall semester ends

Second quarter student teaching ends

Wintervacation, classes cancelled, College open Christmas Day, College closed

New Year's Day, College closed

Labor Day, College closed

First quarter student teaching begins

First day of classes

First day of classes Third quarter student teaching begins Last day to drop a course with 100% tuition refund Martin Luther King's birthday, College closed Washington's birthday, College closed

Last day for refund for withdrawal from spring semester Last day to drop a course

Third quarter student teaching ends Fourth quarter student teaching begins

Spring vacation, classes cancelled, College open

Reading period and/or continued class instruction Examination period and/or continued class instruction Fourth quarter student teaching ends Tuesday classes cancelled and replaced by Friday classes Spring semester ends Commencement

Pre-session registration First day of classes Memorial Day, College closed

Pre-session ends

William Paterson College

In 1980, William Paterson College celebrated its 125th year of service to the people of New Jersey. Founded in 1855, the College devoted itself exclusively to training teachers for New Jersey's schools for more than a century.

In 1951, the College moved from its original location in downtown Paterson to the present suburban campus in Wayne. Degree offerings other than those leading to a teaching career were added in 1966. During the past 15 years, William Paterson College has grown into a comprehensive, multi-purpose, state institution of higher education.

Supported by the citizens of New Jersey, William Paterson College is one of the eight 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, it is fully accredited by the Middle States Association of Colleges and Secondary Schools.

Thirty-five undergraduate and 14 graduate degree programs are offered in the College's seven schools: The Arts and Communication, Education and Community Service, Health Professions and Nursing, Humanities, Management, Science and Social Science. Included in the curriculum are several innovative and challenging undergraduate honors programs in biopsychology, humanities, international management, life science ethics, and policy analysis. An honors program in education will be offered beginning in September, 1981.

Campus Facilities

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

The Sarah Byrd Askew Library. Open seven days a week when classes are in session. Resources include a comprehensive collection of some 250,000 volumes, over 3,000 periodicals, a large micro-print collection of dissertations, microfiche and a complete file of ERIC (Educational Research Information Center). The audio-visual department provides records, cassettes, filmstrips and films, in addition to the appropriate hardware.

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

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 Information Services statewide computer network which supports multilanguage, high-speed service for administrative and academic users. Heritage Hall. Air-conditioned and complete with furnishings and appliances, Heritage Hall and Pioneer Hall, the other student residence, provide apartment-style living for 530 students.

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

Garret Hobart Manor. A national historic site, formerly the home of the Garret Hobart family. Hobart was the 24th vice-president of the United States. Contains educational services offices, including the dean, registrar and financial aid.

Hunziker Hall. The reading and language arts department, the office of field laboratory experiences, a "little theater," scene design and costume shops, the theater box office, theatre department offices and classrooms are housed here.

Hunziker Wing. Contains the department of nursing and health science, the office of the dean of the School of Health Professions and Nursing, and a learning resource center.

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

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

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

Frederick M. Raubinger Hall. Contains offices for the dean of the School of Education and Community Service and the following departments: urban education, special education, elementary education and secondary education. Also, the peer advisement and information center, classrooms and the following offices: Continuing education, cooperative education, admissions, veterans' affairs, counseling and advisement, placement and career counseling.

Science Hall. Houses the School of Science and the School of Social Science. Offices for the deans 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. The Ben Shahn Center for the Visual Arts. Features a central, two-story glass-walled and domed courtyard. Art galleries, studios, classrooms, the office of the dean of the School of the Arts and Communication and art department offices make up the complex.

Marion E. Shea Center for the Performing Arts. Features a 900-seat theatre. Band, orchestra and choral practice rooms, classrooms and the offices of the music department complete the facility.

The Student Center. A focal point for campus activities. Includes dining room, snack bar and pub. Also, game rooms, lounges, the college bookstore, a print shop, a fullservice bank and a ballroom. The College Alumni Association office is located here, as are the offices of various student organizations and the college newspaper, the **Beacon**.

Wayne Hall. Provides additional food service facilities and meeting rooms.

Kenneth B. White Hall. Contains offices for the dean of the School of Management and the school's component departments: accounting, economics and finance, criminal justice administration, computer science, marketing, and management. Also, school personnel services and educational administration, the director of athletics, the educational opportunity fund program and the student health center.

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

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

Admission

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

General Admissions Requirements

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

Admission requirements and procedures vary slightly for four groups of students: 1) those entering the freshman class as fulltime students, 2) those entering the freshman class as part-time students, 3) those entering as transfer students with advanced undergraduate credits, and 4) those entering as non-degree program students.

Application Procedure Students seeking undergraduate admission, whether fulltime or part-time, must submit a completed application form, which may be obtained from the Director of Admissions, William Paterson College, Wayne, New Jersey 07470. The completed application must be accompanied by a \$10.00 fee (check or money order) made payable to William Paterson College. This fee is nonrefundable 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 April 15 for fall admission and November 15 for spring admission.

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

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

Specific distribution requirements include:

| opeoine distribution requirements in | |
|--------------------------------------|----------|
| 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 |

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

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

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

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

Prospective students who have been out of high school for more than five years have the opportunity to seek admission as a matriculated student without taking the Scholastic Aptitude Test. Decisions for such admissions are made using other available criteria.

Notice of Decision 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 his 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.

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

- 1. File an application for admission and all other required materials no later than April 1 for fall admission or October 15 for spring admission.
- 2. Have official transcripts of all courses taken at schools previously attended forwarded to the Director of Admissions. Transcripts should be forwarded as soon as possible after filing the application.

Credits earned at institutions fully accredited by regional accrediting associations are generally acceptable, provided such credits are appropriate to the student's program at William Paterson College. Courses for acceptance 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.

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.

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

Student applicants who have completed the junior year of high school may apply for early admission provided they meet the following criteria: combined SAT scores of 1000 or higher, or the equivalent PSAT scores, and /or rank in the top ten percent of their high school class, and/or exhibit exceptional talent in a special area; receive the endorsement of a teacher or counselor, and submit a written essay describing their reasons for seeking early admission. The Saturday Program for High School Seniors William Paterson College offers its facilities to enrich the academic development of gifted and talented high school students in the North Jersey area. Outstanding high school juniors and seniors may apply to take regular college courses offered on Saturdays during the school year. Students attend regular college courses and earn credits that are applied to their college records.

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

International Students

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

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

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

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

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

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

Financial Information

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

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

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

Undergraduate Tuition and Fees

| New Jersey Student | |
|----------------------------------|---------|
| (per credit) | \$27.00 |
| Out-of-State Student | |
| (per credit) | 47.00 |
| Student Service Charge | |
| (per credit) | 1.5Q |
| Student Activity Fee | • |
| (full-time, per credit) | |
| (part-time, per credit) | .25 |
| Student Center Fee | |
| (per credit) | 4.00 |
| Student Athletic Fee (full-time, | • • |
| per credit) | 1.25 |
| Late Fee | |
| (non-refundable) | 15.00 |
| Bad Check 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.

Change of Course Students requesting program changes are required to pay a change of 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 a change of 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 late payment fee of \$15.00. Fees are not deferrable and an initial payment must be made for all fees, including the \$15.00 late fee. Students who do not pay the deferred tuition by the end of the first third of the semester are assessed an additional \$15.00.

Student Parking The parking fee for automobiles is \$10.00 for the school year. The motorcycle fee is \$1.00. The fee is 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 \$37.00 per year from September 1 to August 31. Coverage can also be purchased for a spouse or dependents.

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

Housing The charge for residing on campus is \$1150 per year. For more information, see p.9.

Financial Aid

Application Procedure for Financial Assistance Information regarding filing dates and procedures for applying for financial aid is given on the admissions application form. The Financial Aid Office in Hobart Manor, Room 11 may also be contacted for further information.

All applicants must obtain a New Jersey Financial Aid Form (NJFAF) from their respective high schools, furnish the required information and mail it to the College Scholarship Service, P.O. Box 2700, Princeton, N.J.

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

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

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

Budgets for the School Year (Nine Months)

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

ANTER COLLECTOR TRADING MEDITES INCIDENT.

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| Commuter Expenses: | |
|---------------------------------|-------|
| Tuition and Fees\$ | 975* |
| Books and Supplies | 200 |
| Other (Recreation, Personal, | |
| Transportation) | 2625 |
| Total . | 3800 |
| Resident Expenses: | |
| Tuition and Fees | 975* |
| Books and Supplies | 200 |
| Room and Board | 2600 |
| Other (Recreation, Personal, | |
| Transportation) | 675 |
| | 4450 |
| *Subject to change by the New J | ersey |

Department of Higher Education.

Eligibility

To receive aid, a student must:

- a. Be a citizen of the United States, or a permanent resident.
- b. Be accepted as a full-time/half-time matriculated student at WPC.
- c. Be in need of financial assistance.
- d. Plan to continue academic study for a bachelor's degree at the institution.
 e. Maintain the required grade point av-
- erage. All financial aid awards are based on need and are awarded without regard to race,

and are awarded without regard to race, religion, creed, age, sex or handicapping condition.

Federal Sources

Basic Educational Opportunity Grants (BEOG) 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 eligibility index number. This student eligibility index number. This student eligibility index number (not a dollar figure) is used, along with the total cost of attending WPC parttime or full-time, to determine the actual amount of the grant. Grants range from \$176 to \$1900.

Eligibility for a basic grant does not directly affect eligibility for any other campusbased aid. However, WPC and the State of New Jersey require that a student apply for a basic grant before being considered for other aid. The State of New Jersey further requires all applicants to check Item 41 "Yes" on the NJFAF.

The basic grant may be referred to as "Pell Grants" in government publications.

College Work-Study (CWS) This program provides jobs for students who are in need of financial assistance which permit them to work up to 20 hours per week. A student may apply if enrolled at least half-time as a graduate, undergraduate, or vocational student in an approved postsecondary institution.

An institution that participates in College Work-Study may arrange jobs on campus or off campus with a public or private nonprofit 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 enrolled in a vocational program, or 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, four 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 of 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 or vocational student in an educational institution participating in the program. SEOG's cannot be less than \$200, or more than \$2,000 a year. Normally, an SEOG may be received for up to four years. However, it may be received for five years when the course of study requires the extra time. The total that may be awarded is \$4,000 for a four-year course of study or \$5,000 for a fiveyear course. Graduate students are not eligible. Nursing Student Grants and Nursing Student Loans (NSG & NSL) This financial assistance may be awarded in the form of a loan or a grant and cannot be for more than \$2,500 in loans a year, or \$2,000 a year in grants. Not more than \$10,000 may be awarded in the form of loans over a fouryear 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 p.9.

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 \$100 to \$750. To be eligible for a Tuition Aid Grant, it is essential that a student file a NJFAF, which also calculates the BEOG award. A student must be a United States citizen, or a permanent resident, and be an established state resident for 12 months prior to receiving a Tuition Aid Grant. The State of New Jersey requires all applicants to fill out Item 45.

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

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

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

Educational Opportunity Fund (EOF) All students applying for admission to the Educational Opportunity Fund program must be determined to be eligible and be accepted for admission to the program. Grants range from \$350 to \$600 per academic year, renewable annually. Further information about the program can be found on p.14. Student Assistant Work Program (SA) Under this program, students with no apparent "need" may obtain employment on campus. Hours and pay rates are similar to CWS. Guaranteed Student Loans (GSL) This program enables a student to borrow directly from a bank, credit union, savings and loan association, or other participating lender willing to make the loan. The loan is guaranteed by a state or private non-profit agency or insured by the federal government.

The maximum an undergraduate dependent student may borrow is \$2,500 a year with an aggregate of \$12,500. The maximum an undergraduate independent student may borrow is \$3,000 a year with an aggregate of \$15,000. A graduate or professional student may borrow up to \$5,000 per year. Total loans for graduate or professional study cannot exceed \$25,000, including loans made at the undergraduate level. All students are eligible for the lower federal interest rate of 9 percent, applicable to loans made after Jan. 1, 1981.

A new program of loans to parents for dependent undergraduate students is established by section 428B of the new law. The maximum amount a parent may borrow for any one student in any academic year is \$3,000. The aggregate loan limit for each dependent student is \$15,000. Repayment is required to begin within 60 days after disbursement, and there is no inschool federal interest subsidy on these loans. The interest rate is 9 percent, effective Jan. 1, 1981.

Public Tuition Benefit Prógram 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.

Small Loan Program The Student Government Association has made funds available to students in need of petty cash. The loan cannot exceed \$25.00. Students must be matriculated and in good academic standing. All small loan information is available from the assistant to the dean of students or the Student Government Association.

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.
- To know how financial aid is distributed, how distribution decisions are made, and the bases for these decisions.
- 4. To know how the financial need was determined, including how costs for tuition and fees, room and board, travel, books and supplies, personal and miscellaneous expenses, etc., are considered in student budgets.
- To know what resources (such as parental contribution, other financial aid, student's assets, etc.) were considered in the calculation of their needs.
- 6. To know how much of the financial need as determined by the institution has been met.
- 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 satis-
- factory progress and what happens if they are not.

Responsibilities Students have the following responsibilities:

- To complete all application forms accurately and submit them on time to the right place.
- To provide correct information. In most instances, misreporting information on financial aid application forms is a violation of law and may be con-
- sidered a criminal offense which could result in indictment under the U.S. Criminal Code.
- To return all additional documentation, verification, corrections, and/or new information requested by either the Financial Aid Office or the agency to which the application was submitted
- To read and understand all forms they are asked to sign and to keep copies of them.
- 5. To accept responsibility for all agreements they sign.
- 6. To perform the work agreed upon when accepting a College Work-Study award.
- 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 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? Any 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. NJFAF's are available from the Financial Aid Office at William Paterson College or from high school guidance offices. This form should be filed by April if the student wishes to be considered for aid for the subsequent academic year, although forms submitted after this date will be accepted. A copy of the student's and/or parent's income tax form must be sent to the Financial Aid Office. It is important to file as early as possible; especially if the student expects to use financial aid awards to meet all or part of term bills. Awards are normally made for the full academic year.

3. What is financial need? The amount of money a student and his family can afford to pay for educational costs is called a "student's family contribution." A college budget consists of the amount of money required to attend college, including tuition, fees, books, transportation, housing, meals, and personal expenses. Simply put, if the student's college budget is greater than a student's family contribution, the difference is that student's financial need.

4. How is a student's family contribution determined? A uniform method of need 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 need analysis, including an expected family contribution, is forwarded to those colleges chosen by the student, as well as to any designated state or federal grant programs requiring this data.

5. Where do financial aid funds come from and how are they disbursed? There are four primary sources of financial aid: federal programs, state programs, institutional funds, and private sources. The Financial Aid Office administers and coordinates all federal, state and institutional programs and notifies students as to the amount and type of aid in their award package.

6. Do financial aid awards have to be repaid? Grants or scholarships do not have to be repaid and, consequently, are regarded as "giff" aid. Loans must be repaid to the lender, but repayment is generally deferred until after a student completes his education. Campus employment income, paid to the student for work performed, does not have to be repaid.

7. Are there income levels above which students are not eligible for financial aid? There is no absolute cut-off for all financial aid programs. Programs differ in their requirements, and a wide variety of factors is considered. In general, grants are awarded to students demonstrating the highest need. Student employment and government loans are more likely to be offered to students showing less need. Guaranteed Student Loans (GSL) are available to students even if they show no financial need. 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.

Merit Scholarships

William Paterson College makes available a limited number of 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.

Educational Services

Academic Advisement

The Academic Advisement Office, located in Raubinger Hall, exists to ensure that each student receives the curriculum guidance necessary for academic success. Staffed by a director and three academic advisors, this 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. A complete roster of students and their assigned faculty advisors is kept on file in the Academic Advisement Office and is reconfirmed each semester.

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

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

Trained student advisors offer assistance with liberal studies and free elective course selections and give instructions on how to use a curriculum control sheet, how to fill out a course request card, and how to complete a change/declaration of major(s) application.

Located just inside the main entrance of Raubinger Hall, the center functions as a centralized outlet and distribution point for campus information.

Among the many publications available here are master class schedules, undergraduate catalogs, curriculum control sheets for every major, and graduate school test booklets.

Declaration/Change of Major(s) Declaring or changing one or more majors is a fourstep process:

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

Students are strongly advised to declare a major by the end of the sophomore year. **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.
- The last 30 credits required for graduation must be earned at WPC; 24 of these must be earned on the main campus.
- 3. No more than 15 transfer credits required for a major will be accepted.
- 4. Credits earned 10 years prior to the date of admission are accepted only at the discretion of the College, regardless of achievement.

Center for Academic Support

The Center for Academic Support provides academic advisement for special-category students and tutoring and workshops for individuals seeking assistance in course work and basic skills.

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.

Career Counseling and Placement

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

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

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

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

- 1. Advice in preparing resumes and cover letters.
- Vocational clinics which help develop interviewing skills and techniques and methods for marketing individual skills.
- 3. Psychological and vocational testing.
- 4. Individual and group vocational counseling for persons in need of clarifying ultimate goals.
- 5. Annual career conferences which expose students to current career information and help them to establish contacts with potential employers. A variety of recruiters come to the campus each year to interview prospective candidates for positions with their firms and agencies.

6. Reading materials which serve as career counseling guides. A career library-designed to stimulate career interest, convey career knowledge, and aid in the selection and pursuit of a career-offers an extensive selection of information and resources. A special graduate section is devoted to graduate programs, internships, and assistantships. Other library subdivisions offer company brochures, business and industrial information; career files; teaching and nonteaching job listings; federal, state, county, and local civil service information; and a woman's section.

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

Veterans Affairs

The Office of Veterans Affairs provides a fulltime centralized and comprehensive program of services for veterans or dependents of deceased and disabled veterans.

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

The educational assistance program administered by the Veterans Administration provides financial aid for the education of all eligible veterans. The College provides direction and serves as a certifying agency with regard to veterans' educational benefits and/or dependents' educational assistance. See p.6.

Disabled Student Services

The Office of the Assistant to the Dean of Students coordinates services for disabled students and staff. Assistance in registration, advisement, parking, referrals, and special needs are provided.

Health Services

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

Insurance

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

Housing

On Campus Two co-ed residence halls on campus accommodate approximately 532 students in air-conditioned, twobedroom apartments. The apartments, which house four students each, contain single beds, desks, desk chairs, study lamps, sofa, dining furniture, full-size refrigerator, electric stove, full bathroom, plenty of storage cabinets and closets. Students provide their own cooking and eating utensils, bed linens, and pillows.

The air-conditioned six-story buildings are staffed by directors and resident assistants, who handle emergencies, help resolve roommate conflicts, and aid in counseling when personal problems arise.

The charge for residing on campus is \$1150 per year. The amount is payable in two equal amounts prior to the first day of each semester. Due dates are established by the Housing Office for those students who move in at other times during the school year.

There is no méal plan. However, students who do not wish to make use of the cooking facilities in the residence halls can purchase meals in the Student Center cafeteria.

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

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

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

Counseling Services

The Counseling Department, located in Raubinger Hall 131 and 147, 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, readmission interviews, or leaves of absence and withdrawal consultations.

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 is available, without charge, to discuss any deep personal conflicts that may be preventing a student from moving forward and achieving goals. Both shortterm individual and group psychotherapy are offered.

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 chairman 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 to avoid the possibility of academic penalty.

Grades

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

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

Grade Regulations

A report of the student's grades is entered on his official record and is not altered except upon the authorization of the appropriate dean, after consultation with the instructor or the department chairman. 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 54 credits

Senior—one who has earned at least 90 credits

Pass/Fail Option

A student is allowed to register for a maximum of 12 of the necessary 120 credits required for graduation on a pass/fail basis. The student who exercises this option must indicate such intention at the time of registration and is not permitted to change his. intention after the registration period is complete. Nor may the student who has registered for a course be permitted to change his mind and exercise the pass/fail option after the registration period. A student may not register for more than three credits a term on the pass/fail basis and may not exercise this option in courses required for his major program. Not included in the maximum count of pass/fail credits are those courses which are normally graded pass/fail for all students.

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

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

Credit

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

Course Credit Load

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

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

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

Non-Degree Students The non-degree student is limited to part-time enrollment each semester and may acquire a maximum of twenty-four (24) credits as a nondegree 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,

Good Standing

2.00 or better

2.00 or better

2.00 or better

2.00 or bettet

2.00 or better

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. Students who assume probationary status are offered advice and direction.

Academic Standing Guidelines

| 23 or less* | |
|------------------|--|
| 24 to 30 | |
| 31 to 60 | |
| 61 to 90 | |
| 91 to graduation | |
| | |

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

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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; B = 3.0; C = 2.0; D = 1.0; F = 0. E.g.,

| | Credits tempted | Credits Earned | Grade | Grade Points |
|----------------------|--------------------|-------------------|-------|-----------------|
| Organic Biochemistry | 4 | 4 | А | 16 |
| Creative Writing | 3 | 3 | А | 12 |
| Origin of Cities | 3 | 3 | С | 6 |
| Abnormal Psychology | / 3 | 3 | В | 9 |
| Social Movements | 3 | 3 | D | 3 |
| Independent Study | 0 | 2 | Р | 0 |
| | 16 | 18 | | 46 |

Grade Point Average = 2.87

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

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

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

Withdrawal from the College Withdrawal from college may be initiated at any time prior to the last month of classes of each academic semester. Withdrawal from the College requires an exit interview with the director of counseling and psychological services.

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

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

Leaves of absence are processed by the Office of Counseling and Psychological Services and require an exit interview with a member of that office's staff.

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

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

Academic Honors

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

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

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

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

Average of 3.85-4.00 = summa cum laude

General Curriculum Requirements

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

30 credits in liberal studies, most taken during the first two years;

30-60 credits in an area of specialization (major);

30-60 credits in elective courses, taken throughout the last three years of study.

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 mili-, tary training and experience.

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

The liberal studies requirement acquaints the student with a wide variety of academic subjects, helps develop flexibility, imagination, and the ability to make informed judgments and intelligent decisions. It is described in detail below.

Required courses are selected to assure that the student develops skills and acquires knowledge in the major area that will enable him to meet the standards of professional, accrediting, or certifying agencies, prepare him for a career, and meet admission requirements for graduate study.

Elective courses are of two kinds. Directed electives must be taken to complete the degree requirements in the major and are considered just as important as the required courses in that area. Free electives may be chosen entirely on the basis of interests. They may be taken to complement liberal studies, develop a minor in another area, qualify for a vocational certification, increase competence in the major, prepare for graduate study, or to satisfy curiosity.

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

Freshman Basic Skills Program

On March 18, 1977, the Board of Higher Education of New Jersey mandated a basic skills program to test all entering freshmen in state public colleges and to provide remediation in reading, writing and mathematics for those students whose performance on tests in these areas are unsatisfactory according to current college standards. Assessment of basic skills is made, without charge, through the administration of the New Jersey College Basic Skills Placement Test which consists of the following: essay, reading comprehension,

sentence structure, logical relationships, computation and elementary algebra.

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

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

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

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

Liberal Studies

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.

In addition to the English requirement, the liberal studies program requires the following:

3-9 credits in English, foreign languages, philosophy, history, African and Afro-American studies;

3-9 credits in mathematics, chemistry, physics and earth sciences, computer science, biology;

3-9 credits in art, music, theatre, communication;

3-9 credits in sociology/anthropology, political science, geography, psychology, economics, bilingual education, urban education, and

0-6 credits in health and physical education. **Note:** Credits earned toward a major may not be used to satisfy liberal studies requirements.

Except for courses in foreign languages, all 100-level courses taken to fulfill the liberal studies requirement, or as electives, are restricted to freshmen and sophomores. Upperclassmen may register for these courses only with special permission from their advisor.

For information about a waiver of the liberal studies requirement, see **Credit by Ex-amination** on page 12.

Independent Study

For information, consult an advisor in the particular school in which you wish to pursue independent study.

Specialization (Major)

All students are required to fulfill at least one academic or professional area of specialization. In general, the course requirements in a major program are independent of the courses in liberal studies. However, when liberal studies courses also serve as introductory courses to a major, the student must select alternate courses in liberal studies to fulfill those requirements. Thus, courses in a major cannot also meet the liberal studies requirement.

Multiple Major Courses of Study

A student can elect 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 liberal studies requirement during the freshman year and should normally apply for admission to a major program during the sophomore year. Applications for admission to a major program are available in the Advisement Office.

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

Curriculum Individualization

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

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

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

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

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

- 1. No duplication of credit is permitted.
- No examination is permitted in a subject in which the student has pursued more advanced work for which he has received credit.
- 3. No examination is permitted in courses in which failing grades have been previously assigned.
- 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

CURRICULUM REQUIREMENTS

made for students in their final semester of degree completion.

Since college policy requires that a student complete his 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 test 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 freshmansophomore 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.

Credit is awarded to students upon the initial test or the first retest only. Since CLEP tests are primarily geared to freshmansophomore 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 liberal studies 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.
- Students who have completed content and theory examinations may be required also to take local laboratory or performance examinations under special arrangements and with an additional fee.
- Certain examinations may not be accepted in fulfillment of baccalaureate major programs and/or certification requirements. Students should consult major advisors about the acceptability and transferability of credit in their major sequence.
- 4. Unlike CLEP tests, only results of the initial testing are recognized by William Paterson College. Students are cautioned that passing grades earned in these examinations are added to their permanent record.

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

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

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

Credit for Veterans Following the recommendations of the American Council of Education, the College awards credit to qualified veterans for military and academic experiences. Each veteran who has served at least one complete year in service is awarded three credits for military service. In addition, veterans may apply for an evaluation of any courses they may have completed in special training schools, correspondence schools and academic courses completed under the auspices of the United States Armed Forces Institute: The College adheres strictly to the minimum recommendation for credit by ACE and USAF. Air Force ROTC William Paterson students can earn appointments as commissioned officers in the United States Air Force through an ROTC crosstown agreement with Seton Hall University. 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 Seton Hall 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.

Pre-Medical Programs

Students interested in careers in medicine, osteopathy, podiatry, dentistry, or veterinary medicine should see p. 91.

Pre-Law Preparation

There is not, nor can there be, a prescribed, single, pre-law curriculum. A student's plans should reflect his own interests, individual strengths and weaknesses, the particular offerings of the College and, of course, individual career goals.

In general, the pre-law student should concentrate on developing effective methods of study, communication and thought. The acquisition of factual knowledge, although important, should not be the primary objective of pre-law study. Of course, these skills may be acquired in a number of different areas. Successful law students and lawyers have obtained undergraduate majors in every conceivable field.

Although a pre-law student can prepare to study law through avenues that appeal to his particular talents and interests, some specific recommendations can be made. Advanced English composition and a year of both accounting and economics may be considered as prerequisites for law school. Courses in mathematics, philosophy and science are often useful in developing the capacity to think logically and analytically. In addition, mathematics and the natural sciences provide instruction in scientific method, an appreciation of the importance of accuracy and, in this modern era, some awareness of the significance of technology.

As long as the student is aware that there is no single pre-law curriculum, and does not attempt to take courses in all the areas mentioned above, selected courses, taken with the counsel of an advisor, may substantially enrich pre-law preparation. Faculty members in the School of Management are available to advise any student who expresses a desire to attend law school.

Special Programs

Freshman Seminar Program

The freshman seminar program is open to all WPC students and designed to fulfill in part the 30-credit liberal studies requirement. Each freshman seminar course section is limited to 25 students and carries 3 credits toward the liberal studies requirement. In most cases, the credit is applied to a liberal studies category agreed upon by student and section instructor within the guidelines listed below. Exceptions can be made when the content of a particular section or a student's work in that section warrant.

The freshman seminar program grew out of five years of study of the general education needs and interests of WPC students. One important conclusion of these studies was that, while faculty are nearly unanimous as to the value of a component of general education in the curriculum of all college students, students frequently fail to see the obviousness of this value. As a result, all freshman seminar sections are designed in such a way that the content of the section is determined by both the instructor and the students.

The course descriptions below pertain primarily to the style and process of the courses. Specific content is included in the descriptions, written by the instructors for each section, each semester, and distributed to students. No two sections are necessarily identical. A scan of section descriptions shows the degree to which the content is broadly defined and allows for modifications by the students as a group or as individuals.

The overriding philosophy of the freshman seminar program is that the interests of students are important and that these interests are related to the concerns of general education. Each seminar has as its first goal integrating student interests and general education. If successful, all other general education courses will be more valuable to the student.

FSP 110: Touchstone Text

LS: Social science or natural science Presents books as a way of both ordering and expanding one's experience. At least one book rich in ideas is read and carefully discussed. As the class discusses the "Touchstone Text," it develops a learning style based on topics suggested by the book, which includes a variety of tasks and approaches that deepens students' analyses and responses to the principal book.

FSP 120: Master Learner

LS: Social science or natural science Focuses on interdisciplinary topics in areas outside the instructor's specialty. Probable study areas include other cultures, other people and other times.

FSP 130: Futures

LS: Humanities or social science

Examines the ways experts predict the future and the ways in which society prepares for a very different world. Data forming the bases of prediction are studied to identify predictive patterns. Analyzes how certain changes affect human beings in general and individuals in the class in particular.

FSP 140: Research Tutorial

LS: Research topic

An instructor-designed project, closely modeled after his research experience. Students are introduced to the techniques necessary for meaningful work and, individually or in groups, contribute to the group research project. A collaborative written report of class findings is also part of the course.

FSP 200: Master Learner-Language LS: Humanities

Currently, the only seminar available to freshmen and to students with class standing above the freshman level. This course applies the general master learner approach (see above) to the specific task of learning languages. Since it is important that the language chosen be new to both faculty and students, the language of each section is most usually one not common to the curriculum. Mastery of the language is a goal secondary to the exploration of language itself. Such exploration yields understanding of one's own lanaugae and the fundamentals of human communication.

Note: While a student may take all five freshman seminar courses for credit, only six credits can be applied to the 30-credit liberal studies requirement. Also, while the content of two sections of the same course may be vastly different, each course may be taken for credit only once. This last point represents a change from previous policy.

The Educational Opportunity **Fund Program**

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

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

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

Cooperative Education

Cooperative education integrates a student's academic study with periods of planned work experiences related to the student's educational objective. The student usually receives both financial remuneration and academic credit. Co-op is a dynamic educational concept that provides planned and evaluated work experiences to enhance the integration of classroom theory with pragmatic work requirements.

WPC's program is established on a trimester basis with work periods arranged during any of the following semesters:

- Fall-September to January
- Spring—January to June
- Summer-June to September

A student can complete as many as three co-op work periods while attending WPC by alternating periods of full-time school with periods of full-time work, including the summer term.

Students may earn credits toward their degree based on an individualized student-oriented learning contract. Three credits per semester are granted for the successful completion of the contract. These credits come from the free elective area and grades for the credits are awarded by the faculty advisor.

3 credits for the first work period

3 credits for the second work period

3 credits for the third work period

Students may apply for co-op through the Office of Cooperative Education.

Courses

COOP 100 Cooperative Education I

An entry-level work experience in cooperative education. Designed to complement a student's major.

COOP 200 Cooperative Education II

A second-level work experience with increased responsibilities in a higher-level position. Prerequisite: COOP 100

COOP 300 Cooperative Education III Oriented to possible career objectives within the student's major field. The work experience increases in difficulty and responsibility.

Continuing Education

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

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

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

The Office of Continuing Education works with other administrative offices to provide support services for nontraditional students. A continuing education catalog is published every semester. It includes information about attending college part time, financial aid available, admission procedures, a schedule of courses, and a list of special conferences and workshops.

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 Office of Continuing Education.

National Student Exchange Program (NSE)

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

Semester Abroad

Semester Abroad, a 15-credit program, is open to students with sophomore or junior class standing 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 GPA of 3.0 or better 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 Services.

Honors Programs

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

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

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

For a complete description of the curriculum, see p. 91.

Education The program has two major goals. The first is to provide a vehicle through which excellent students can be prepared not only for teaching positions in schools, industry, and other institutions, but for leadership roles in the field of education as well. The second goal is to prepare exceptionally capable and highly motivated students for difficult and challenging positions in all the areas that involve teachers, learners and the interactive process. 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 in the School of Humanities who discuss the evolving patterns of human selfawareness 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. See p. 60.

International Management Students of exceptional ability and interest become eligible to enter the honors program in international management during the first semester of the sophomore year. The program combines a 44-credit core of 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 either 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. Interested freshmen and firstsemester sophomores should see pp. 82 for more information. 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. See p.82.

Life Science Ethics The honors program in life science ethics offers an exploration of the ethical dimension surrounding both the actual achievement of the biological and technological advances regularly occurring in our lives and the implications of the uses of such knowledge.

Students who seek a challenge to their intellectual curiosity, and who can tolerate the legitimacy of a value system other than their own, should be enriched by the examination of the ethical dimensions of such issues as human and animal experimentation, the utilization of limited health resources, and consideration of the realm of genetic engineering. The program has special attraction for students majoring in biology, nursing, philosophy, psychology or sociology. See p. 55. Policy Analysis The honors program in policy analysis is an interdisciplinary program designed to provide students with applied training in the social sciences. The field involves the application of available knowledge in the various areas of the social sciences-psychology, sociology, political science, economics, anthropology and geography-to the formation, implementation and evaluation of policy at the federal, state and local levels. Government expansion in areas such as social services for children and the aged and in environmental protection has resulted in an ever expanding need for people trained in the social sciences as well as in policy analysis. It is expected that students enrolled in the policy analysis honors program will acquire a competitive edge in the job market after graduation and in the pursuit of a graduate degree.

The program is open to all majors in psychology, sociology, anthropology, geography, political science and economics, but is designed particularly for highly motivated students who wish to explore more specific areas and topics in depth. The program provides the breadth and depth in the major the student has chosen. Students in the program take three courses specifically designed for the policy analysis honors program and also participate in an on-the-job internship. Supporting courses in social science areas other than the major complete the program. See p. 107.

Graduate Programs

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

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

Student Life

Recognizing the need for the social, 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. Yearly activities generally include Homecoming, Fall Fest, Spring Week, feature and art films, Coffee House rock and jazz concerts, jam sessions, lectures, dances, theatre presentations, 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, reaardless of race, religion, sex, or national origin are encouraged to participate in the activities of their choice.

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 which include office and file space for student organizations, such as the Student Government Association, the Student Activities Programming Board, the college newspaper, yearbook, literary, and social and political journals. Located in the Center are recreation areas where patrons may play billiards, ping pong, pinball, cards, and various table games; study room; television room; multipurpose ballroom; lounges; snack bar, restaurant; college bookstore; meeting and conference rooms; information desk, print shop; outside dining terraces; sweet shoppe; Billy Pat's pub, and bank. The Student Center also houses the Student Activities Office, the Alumni Office and the Office of Campus Ministry.

Student Co-Operative Association, Inc.

This corporation, set up in accordance with an amendment to the constitution of the Student Government Association, holds and disburses student funds and operates activities as decided by the corporation. There are twelve trustees of the corporation, with equal faculty and student representation. The student trustees are elected by the Student Government Association Council. The officers are chosen by the trustees. This corporation is chartered by the State of New Jersey to carry out the purposes indicated.

This Association also disburses funds to the Athletic Finance Board.

Alumni Association

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

Upon graduation, all alumni receive identification cards, which permit them to use many college facilities that were available to them as students. By presenting the alumni card, alumni have access to the pub, athletic facilities, student activities, and library borrowing privileges.

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.

Student Government Association

The Student Government Association (SGA) is an organization of students headed by four elected officers from the full-time student body to protect and advance student rights. All full-time students, upon payment of the student activity fee, are members of the association. It is also responsible for chartering and funding more than 60 campus organizations, which are divided into the categories of service, special, cultural and academic interest.

The SGA is governed by a president, vice president, two co-treasurers and a legislature. It is divided into six standing committees:

Constitution-Judicial Board

Elections

- Finance Public Relations
- Student/Faculty Relations

Student Center Relations

The SGA employs a full-time secretary to assist students when officers are attending classes or otherwise unavailable. The secretary also provides free notary public service to all students.

The SGA also employs a full-time teacher/director for the Child Care Center that cares for the children of WPC students while they are attending classes.

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

Part-Time Student Council

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

Student Activities Programming Board

The Student Activities Programming Board promotes diversified social, cultural, recreational and service activities for WPC community members and friends of the College. The board also assists students and organizations in developing their programs and activities.

This board is a sanctioned organization of the Student Government Association and is solely dependent upon student input.

The board is divided into committees, and membership is open to all interested students.

The committees are as follows:

Concert Committee—Schedules major and mini concerts. Past performers have included Harry Chapin, Hall & Oats, and the Ramones.

Coffeehouse Committee—Schedules coffeehouse performances including folk, blues, jazz and other traditional performers.

Performing and Creative Arts Committee – Schedules lectures, theatre, dance, variety acts and other activities of cultural interest to students.

Cinema Committee—Administers a feature film series and, occasionally, 24-hour film festivals.

Social Committee—Involved with Homecoming. Fall Fest, Spring Week and other special events.

Student Services Committee—Assists with freshmen orientation, the annuai calendar and other service projects.

College Bowl Committee—Sponsors an intercollegiate team that participates in local and regional tournaments of the nationally syndicated quiz game.

Recreation Committee—Administers tournaments, camping trips, lectures and demonstrations in other recreational areas of interest.

Executive Committee—Consists of president, vice president, secretary, treasurer, and the chairmen of the above committees. The officers are elected by the membership.

Publicity—This service committee provides advertisement for other committees and offers a unique opportunity for artists to build a portfolio.

Fall Fest—A function of the SAPB, this event welcomes WPC alumni back to the campus during a week in the fall. Events include a dinner dance, open house, pep rally, rock concert, and football and soccer games.

Spring Week—Coordinated by SAPB, this event offers a wide range of attractions to members of the College and local communities.

Alcohol Control Committee

The Alcohol Control Committee (ACC) is responsible for implementing college policy regarding the consumption of alcoholic beverages on campus.

Its membership consists of twenty students, evenly divided between male and female members.

Members, selected by the Alcohol Review Board, must be at least 19 years old and must be in good academic and social standing.

The duties of the committee are to check proof and/or college I.D.'s, maintain a guest book, assist in the general control of the function at which alcohol is consumed, and serve as witnesses in any related cases brought before the dean of students and appropriate judiciary bodies.

Musical Organizations

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

Performing instrumental groups include guitar, Latin, big band, avant garde and five small ensembles.

Intercollegiate Athletics

William Paterson College is a member of the highly competitive New Jersey State College Athletic Conference, the Eastern Collegiate Athletic Conference, National Collegiate Athletic Association, New Jersey Intercollegiate Athletic Association for Women, Eastern Intercollegiate Athletic Association for Women, and American Intercollegiate Athletic Association for Women. All teams are Division III and offer no athletic scholarships.

The College offers nine intercollegiate varsity sports for men and ten for 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, gymnastics, softball, swimming, tennis, track and yolleyball.

Honor Societies

Alpha Phi Gamma-Delta Chi Chapter-Students interested in journalism and communications can apply for membership in the Delta Chi Chapter of Alpha Phi Gamma, the honorary journalism fraternity. The organization recognizes and honors individual ability and participation in collegiate student publications and serves, promotes and helps to improve collegiate journalism. It is an organization that unites. students and faculty interested in journalism. To be eligible for active membership, a. college student must have held either a major position, such as editor, associate editor, news editor or business manager, of a campus publication or news bureau for one semester, or a minor position for two semesters. The candidate must also be above freshman rank and have an aboveaverage scholastic record. For further information see the editor-in-chief of the Beacon

Omicron Delta Epsilon—The international honor society in economics, this society recognizes scholastic accomplishment and outstanding achievements in economics. Open to members of economic and business faculties and to students with a minimum grade point average of 3.0 who have taken a minimum of 12 credits in economics, Omicron Delta Epsilon promotes closer ties between students and faculty, as well as among colleges and universities. There are approximately 400 chapters worldwide.

Phi Alpha Theta-Rho Alpha Chapter—Phi Alpha Theta is the international honor society in history. It was organized at the University of Arkansas on March 17, 1921 and established at William Paterson College in 1968. Since that time it has grown to nearly four hundred chapters in forty-six states, Puerto Rico, Canada, and the Philippine Islands. It has the greatest number of chapters among the accredited honor societies holding membership in the Association of College Honor Societies and has more than 60,000 members.

Phi Alpha Theta is composed of students and professors who have been elected to membership upon the basis of excellence in the study or writing of history. It is highly democratic, however, in that any student of history may become a member by maintaining a high standard of work in his studies.

At the same time, Phi Alpha Theta is a professional society, whose objective is to promote the study of history by encouraging research, good teaching, publication, and the exchange of learning and thought among historians. It seeks to bring students, teachers, and writers of history together, both intellectually and socially.

Academic Requirements:

(a) 12 credits of bona fide history courses. (liberal studies inclusive) with a minimum of a 2.1 average in these courses;

(b) letters of recommendation from two faculty members.

Kappa Delta Pi-Zeta-Alpha Chapter—This society fosters the ideals of fidelity to humanity, science, service and toil which serve as guidelines for its members serving in educational careers. Membership requirements include having a definite interest in the field of education and a minimum grade point average of 3.45 for sophomores, 3.30 for juniors and 3.20 for graduate students. Initiation requirements are published in the **Beacon**.

Founded initially as the Education Club at the University of Illinois, the society's Alpha chapter was founded nationally in 1911 and at William Paterson College in 1945. Kappa Delta Pi-Zeta continues to be the common agent in the development, growth and maturation of teachers and brings together students, faculty and practicing teachers.

Pi Lambda Theta-Beta Chi Chapter—An honor and professional organization for women in education, membership is open to junior and senior undergraduate students with a minimum grade point average of 3.2 and graduate students with a minimum grade point average of 3.5.

Alpha Kappa Delta-Gamma Chapter—The sociology faculty holds membership in the New Jersey chapter of this national sociology honor society. Membership qualifications include meeting the academic standards of the society and the success of WPC students who have graduated with degrees in sociology. Student membership is based on scholarship and a responsibility to make scholarly contributions to sociology, should the member continue his education beyond the bachelor's degree.

Catholic Campus Ministry Center

Located next to Gate 1, the CCMC also hosts the Campus Ministry Club. This club, chartered by the Student Government Association in March 1980, is open to all WPC students. The purpose of this club, as summarized from its charter, is to provide WPC students with an environment which respects the individuality of every person, promotes student awareness of the dignity of all people, sponsors activities of a social, service, self-awareness or spiritual nature to foster the above, provides WPC students, faculty and staff with an environment of personal reflection, and sponsors discussions, guest speakers or events to stimulate interest in topics of a transcendental nature.

Inter-Fraternity/Sorority Council

The IFSC is the umbrella organization for the College's social fraternities and sororities. It provides a forum for discussion of common problems, helps produce joint activities such as Greek Day, and assists students contemplating membership in a nonfraternal organization in learning about the characteristics of each member organization:

PHI RHO EPSILON FRATERNITY TAU DELTA PHI FRATERNITY -TAU KAPPA EPSILON INTERNATIONAL FRATERNITY THETA SIGMA KAPPA SORORITY PHI BETA SIGMA FRATERNITY GAMMA PHI LAMBDA SORORITY DELTA SIGMA THETA SORORITY ZETA OMICRON PSI SORORITY OMEGA THETA IOTA SORORITY THETA GAMMA-CHI SORORITY GAMMA PHI OMEGA FRATERNITY GAMMA CHI SORORITY PSI OMEGA CHI SORORITY SIGMA TAU FRATERNITY **SKULL & PONIARD FRATERNITY**

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 12 to 5 p.m. and from 7 to 11 p.m. Monday through Friday and from 7 to 11 p.m. on Saturday.

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

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

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

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

Cultural Clubs

Black Students Union—Seeks to bridge the chasm of racial turmoil by recruiting minoirty group students and enriching community support for the work of WPC.

Chinese Club—Helps students who have an interest in some aspect of Chinese culture to participate in a wide range of related activities, including Kung Fu demonstations, Chinese food sales, films, and trips to Chinatown.

Circassian-Turkish Cultural Club—This group sponsors many events and displays sharing the near or middle Eastern culture. Events have included dinners featuring regional cuisine, traditional dance and music.

Cultural Italian-American Organization – Develops an interest in and an appreciation for Italian culture and customs. Members of the club attend Italian opera, movies, plays and "festas." Also, specialists in Italian culture are invited to address the group.

French Club—Open to all students interested in some aspect of French culture. Past activities have included a French day during International Week, French films, concerts, lectures, lunches and picnics. Members use the French Club office to meet informally and read the French newspapers and magazines to which the club subscribes.

International Student Association-Formed in October 1971, the association provides an international student with an opportunity to meet and work with other international students on campus, to help incoming students adjust to the campus as well as the country, and to participate in the various social events the club organizes. The association sponsors trips, films, speakers, and parties, and assists in arranging speaking engagements for students. An office in the Student Center serves as 'home' for the association and provides activities and a place to relax between classes. Interested students are encouraged to visit.

The Irish Cultural Club—Founded in October 1974, the club is one of the newest and most active clubs on campus. The main objective is to study, appreciate and preserve the culture of Ireland by introducing the student body, faculty and communify residents to a wide spectrum of cultural programs in art, music, literature and history. Meetings are held bi-monthly and announced in the **Beacon**. Membership forms may be obtained in the club's office, in the Student Center. Jewish Student Association—Established to provide facilities, guidance and organization for social, religious, cultural and educational activities for students. The group sponsors speakers, inter-collegiate programs and other events as well as events for the college community.

Activities include concerts, cultural lecture series, receptions, gym and swim parties, picnics, Chanukah toy drive, a model Sedar for Passover, and an annual end-ofthe-year trip to a hotel in the Catskill Mountains. The Jewish Student Association also has open-house weekly.

Organization of Latin American Students-

O.L.A.S. serves the needs of Hispanic students at WPC and works closely with the Hispanic community in this area. The club actively recruits qualified Hispanic students to the campus. It also sponsors charity benefits for orphans and disaster victims in Latin America and the community. It has cosponsored functions with the Black Students Union, Educational Opportunity Fund, SAPB and several academic departments, bringing timely films, speakers, folk art displays and ethnic folk dances to the campus, so the student body could learn more about Latin America's culture, problems, and way of life. O.L.A.S. also sponsors social functions such as dances, field trips to theatres, museums, films and restaurants in the Hispanic community, as well as dinners and parties.

The Campus Mjnistry Club—Leadership is made up of an executive board—president, vice-president, secretary and treasurer—with the campus minister as advisor. Officers are elected for one year; elections are announced in the **Beacon** in September and take place in October.

Special Interest Clubs

Black-Hispanic Broadcasters Club—This group sponsors events associated with the broadcast industry and provides insight for students who have chosen a career in the media.

Chess Club—Open to all students, whether they are novices or experienced chess players. Notices about club meetings appear in the **Beacon**.

Creative Source Dance Co.—Offers members of the campus community the opportunity to dance and choreograph and sponsors artists-in-residence.

ESSENCE Magazine—A literary magazine published twice each year. Contains original articles, poems, plays and short stories written by students. Original illustrations and photographs are also included. Any student may submit manuscripts for consideration. Weekly meetings are held to evaluate and select material. All students are invited to attend.

The Galen Society—Offers students contemplating medical careers the opportunity to explore the various pre-med specializations. Ice Hockey Club—Participates in an eighteen-game schedule in conjunction, with the Bi-State (N.Y.-N.J.) Ice Hockey League. Full-time students interested in playing on the team can learn of tryouts in the Beacon.

Intramurals—Sponsors an on-campus sports program for members of the college community. Winning teams have participated in tournaments throughout the region.

Men's Tennis Club—As a club sport, the men's team competes against teams from other colleges in the area.

Pioneer Players—A drama club open to all students interested in acting, play reading, directing, costuming and make-up technique. No previous acting experience is required.

Resident Hall Association—Composed chiefly of students who live in the resident halls on campus; this is a social and cultural organization dedicated to enhancing the lives of campus residents.

Ski Club—Open to all students—skiers and non-skiers alike. Beginners are given an opportunity to learn skiing techniques and skills, while experienced skiers can enjoy skiing expert slopes. The Ski Club promotes skiing and meets for discussions, films and demonstrations. Students who wish to learn how to ski are encouraged to join.

Ski Racing Team—Offers ski competition, as a "club" status, against other institutions in the area.

Social Science Society—Promotes the social sciences on campus. Speakers, discussion groups and panels which expand the personal and professional background of members are scheduled. Field trips to areas of historical interest supplement regular club activities.

Student Mobilization Committee—An independent, coalition of students, this club seeks to build solidarity on campus and to put forward a unified front in support of all progressive causes. It also serves as an educational resource for the college community. Membership is open to all interested students.

Students for Environmental Action—Disseminates ecological information to the college community and undertakes various ecological projects. Activities include lectures and film presentations.

Academic Clubs

Student Accounting Society—Furthers the interests of members and the campus community in accounting. Membership is open to all enrolled students.

Art Education Association—This action-oriented group gives students the opportunity to meet with others committed to the teaching of art education on all levels. The Association has sponsored exhibitions of children's art work at the College, Willowbrook Mall, and the Newark Museum and has also promoted field trips to an experiential learning center, a manufacturing facility that produces school art materials and an art center in Harlem, devoted to children. Student members participate in professional conferences for art educators, panels devoted to teaching art in urban schools, seminars on teaching art through media, and workshops devoted to working with art materials used with young children.

Business Student Association—Fosters and improves articulation and cooperation between the business world and the College. Open to all SGA members, the club works to improve and expand the College's business curricula.

Chemical Society—Provides a means of furthering the interests of chemistry majors and others interested in the subject.

Computer Society—Dedicated to promoting the understanding of the role of computers in society, increasing student access to computers and using computers to serve the college community.

Early Childhood Organization—By sharing ideas and experiences, this club builds enthusiasm for and dedication to the field of early childhood education among its members. The organization encourages student participation in workshops, conferences, and other activities related to the field.

English Club—Dedicated to the intellectual and material enrichment of the college community, this club augments the educational and social experiences of its members through selected programs. Any regularly-enrolled WPC student is invited to seek membership.

Forensic Club—Provides the opportunity for students to learn public speaking and debate and to participate in tournaments on an intercollegiate level.

Geography Club—Provides a forum for interested students to investigate topics of interest and present lectures for the college community.

Health Majors Organization—This newly chartered club offers an opportunity for students to investigate current topics and gain insight into their chosen career.

History Club—Open to all SGA members. Encourages social and professional cooperation among its members and promotes and expands the study of history at WPC. Math Club—Open to all students interested in mathematics. Stimulates student interest and broadens scope of knowledge in the field of mathematics. Activities include discussions, films, mathematics laboratory activities, guest speakers and field trips.

Music Student Association—Promotes the musical interests of the student body and provides cultural activities on campus, especially the acclaimed Midday Artists Series. Social activities, such as receptions, picnics, and parties, are also functions of this group. Monthly meetings usually include guest speakers, as well as club business. Officers and faculty advisors for the association are elected on an annual basis. Any student may join.

Natural Science Club—Provides intellectual and social activities which supplement curricular studies in the science subject areas. Spring and fall cance trips are the highlights of the year's activities. One of the goals of the club is to develop the waterfall and surrounding land for use in college programs. Other activities include horseback riding, guest speakers, camping weekends, trips to museums and fossil collecting:

Nursing Club—Open to all concerned students, this club provides a means by which students may help others and serve society.

Physical Education Club—Through communication with, and participation in, state and national organizations interested in the health, growth, and development of both children and adults, this club seeks to increase concern for progress in these areas. Open to all interested students, the organization assists members in attaining high levels of success in the field by fostering social and professional cooperation among them.

Political Science Club—Dedicated to the promotion of student political awareness of all levels of government. All students are welcome to join, especially political science majors. Meetings are announced in the Beacon.

Psychology Club—Founded by students in 1970 to provide an organization and forum for all students interested in pursuing the study of psychology beyond the limitations of traditional classroom restraints. The club is run by and for students. It sponsors various activities related to an interest in psychology, such as films, speakers, field trips, and social gatherings. All students interested in psychology are welcome. The club's office is in the Student Center.

Special Education Club—Affiliated with the National Council for Exceptional Children (CEC), the club is open to all special education majors. Goals are to make exceptional people happy, to better educate the public about the potentials of exceptional people and to meet the needs of the future special educator. **Speech Pathology Club**—Open to all fulltime students, this club promotes interest in speech pathology by encouraging participation in workshops and other such activities and by scheduling speakers on related topics.

Student Art Association—By scheduling speakers, films, and exhibitions, this club promotes interest in art. Through the establishment and maintenance of communication among art department students and faculty, the organization, open to all interested in art, seeks to improve the department.

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 offers a diverse array of liberal studies courses for students who are majoring in other schools of the College.

The school also sponsors exhibits of the works of students and professional artists in the Ben Shahn Gallery; dramatic and musical presentations in Shea Auditorium, Hunziker Hall 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.

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

Associate Professors—W. Finneran, W. Muir, D. Raymond, G. Schubert, S. Smith

Assistant Professors—D. Haxton, A. Lazarus (chairman), C. Magistro, M. Rothman, J. Ruban, M. Schnur, C. Steen Instructor—C. Huebner Gallery Director—A. Einreinhofer

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

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

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

| | or Reg O Art | QUIREMENTS: | 30 credits |
|--------|-------------------|----------------------|--------------------------------|
| ART | 160 | Graphic Delined | ation 3 |
| ART | 161 | Drawing | 3 |
| ART | 162 | Design Fundame | entals I 3 |
| ART | 163 | Color | entals I 3 3 entals II 3 |
| ART | 164 | Design Fundame | entals II 3 |
| Plus d | a minii | mum of 15 additid | onal credits of |
| art st | udio c | ourses. | |
| In ac | dition | , 9 credits of art I | history are re- |
| quire | d. | | |
| ART | 110 | Modern Art I | 3 |
| ART | 291 | Western Art I | 3 3 |
| ART | 292 | Western Art II | 3 |
| | or reg . In de | QUIREMENTS: SIGN | 78 credits |
| Studi | 0 | * | |

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160 Graphic Delineation ART Drawing ART 161 ART 162 Design Fundamentals I ART 163 Color 164 Design Fundamentals II ART Art History Modern Art i ART 110 History of Design ART 150 ART 211 Modern Art II 291 Western Art I ART ART 292 Western Art II Design ART 241 Production Process: 2 Dimensional Design ART 242 Production Process: 3 Dimensional Design 302 Graphic Illustration ART ART 311 Design Workshop I Design Workshop II 312 ART

3 Print and Publications ART 313 ART 411 Design Workshop III 3 3 Design Workshop IV ART 412 ART 413 Thesis Project I 3 Thesis Project II 414 3 ART In addition, any six courses from department offerings by concentration and advisement.

| | or reg listor | QUIREMENTS: 39 cre Y | dits |
|--------|------------------|--------------------------|------|
| ART | 160 | Graphic Delineation | 3 |
| ART | 161 | Drawing | 3 |
| ART | 162 | Design Fundamentals I | 3 |
| ART | 163 | Color | 3 |
| ART | 164 | Design Fundamentals II | 3 |
| ART | 392. | Ancient Art | 3 |
| ART | 396 | Baroque and Rococo | 3 |
| Plus d | one of | the following: | |
| ART | 393 | Medieval Art | 3 |
| ART | 394 | Northern Renaissance Art | 3 |
| ART | 395 | Italian Renaissance Art | 3 |

| Plus o Art Art Art Art | one of 140 150 211 320 | the following: History of Film History of Design Modern Art II Ideas in Contemporary Art | 3 3 3 3 3 |
|------------------------------------|------------------------------------|---|-----------------------|
| Plus (| an ad | ditional 9 art history credits | by |
| | semen | | 9 |
| Plus d | one of | the following: | |
| HIST | 110 | Heritage of the Ancient | 3 |
| | | World | |
| HIST | 120 | Heritage of the Medieval World | 3 |
| HIST | 130 | The Modern World | 3 |
| HIST | 140 | Chinese Civilization | 3 |
| HIST | 150 | Latin American | 3 |
| | | Civilization | |
| | | | |

MINOR REQUIREMENTS: 18 credits STUDIO ART

| ART 160 ART 161 ART 162 ART 163 ART 164 | of the following courses: Graphic Delineation Drawing Design Fundamentals I Color Design Fundamentals II ditional studio elective cou | 3 3 3 3 3 | | |
|--|---|-----------------------|--|--|
| Plus two additional studio elective courses. Note: It is recommended that a student electing a minor in studio art take at least six credits in art history. | | | | |

MINOR REQUIREMENTS: 18 credits ART HISTORY

| ART | 110 | Modern Art | 3 |
|--|----------|-----------------------------|----------|
| ART | 291 | Western Art I | 3 |
| ART | 292 | Western Art II | 3 |
| Plus 1 | hree c | additional elective course | ∋s |
| in ar | t histor | V | 9 |
| Note: It is suggested that a student who | | | |
| wishe | es to n | ninor in art history also e | lect six |
| cred | its from | n among ART 160, 161, 16 | 2, 163, |
| 164. | | C . | |

CERTIFICATION REQUIREMENTS 52 credits

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

Academic Content Requirements 9 credits

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

| 1011014 | | ioupingo. | |
|---------|-------|-----------------|-------------|
| ART | 321 | Painting | 3 |
| ART | 341 | Sculpture | • 3 |
| ART | 351 | Printmaking | 3 |
| ART | 371 | Photography | 3 |
| ART | 335 | Weaving | 3 |
| ART | 339 | Metalsmithing | 3 |
| ART | 361 | Ceramics | 3 |
| Note: | The | Art Department | recommends |
| that | a stu | udent build his | major areas |
| | | | |

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

| Secondary Education (K-12) | 43 credits |
|----------------------------|------------|
| Requirements | |

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

Plus one human relations course from the following:

| 1011011 | ng. | | |
|---------|-------|--|--------|
| SED | 381 | Educational Sociology | 3 3 |
| SED | 391 | Challenge, Change, and Commitment in Education | 3 |
| SED | 432 | | 3 |
| URED | 482 | | 3 |
| Plus c | one p | rofessional preparation cou | urse |
| | | owing: | |
| SED | 329 | The Competencies of | 3 |
| | | Open Education | |
| SED | 342 | Ecology for Educators | 3 |
| SED | 380 | Insights and Outlooks in | 3 |
| | | Education | |
| SED | 428 | Simulated Laboratory | 3 |
| | | Experiences in | |
| | • | Secondary Schools | - |
| SED | 430 | Teaching Literature to | 3 |
| 0-0 | | Adults: Grades 5-12 | ~ |
| SED | 480 | Field Research in | 3 |
| | | Teacher Education | |

Teacher Education LSM 323 Modern Educational Media

3

Courses

All courses are for 3 credits, unless otherwise noted.

ART 110 Modern Art I (lecture)

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

ART 130 World Art (lecture)

A survey course for non-art majors. Selected major periods in art history and specific major movements and artists. Introduces arts of painting, sculpture and architecture; develops visual sensitivity and makes the vocabulary of art history meaningful. ART 140 History of Film (lecture) Screening of important films in the history of this vital art form. Lectures and discussions lead to an understanding of film as a visual medium.

ART 150 History of Design (lecture)

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

ART 160 Graphic Delineation (studio)

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

ART 161 Drawing (studio)

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

ART 162 Design Fundamentals I (studio) Studies in the ordering and structuring of 2-

dimensional space. The student conceives and executes problems which involve the elements of art and their varied interrelations to develop aesthetic judgment and sensitivity. Outside assignments required.

ART 163 Color (studio)

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

ART 164 Désign Fundamentals II (studio)

Design as it applies to 3-dimensional forms. Skill in handling tools and various sculptural materials is stressed, as is the interrelationship with 2-dimensional design. Outside assignments required.

ART 170 Art in New York (lecture)

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

ART 211 Modern Art II (lecture)

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

ART 231 Gallery Workshop (studio)

The procedures and problems of mounting exhibitions and conventional and alternatives spaces with emphasis on details of preparation and installation. 4 credits **ART 232 Modern European Film** (lecture) A survey of the major European films and their aesthetic, social, and technical importance from World War II to the present. Prerequisite: ART 140

ART 233 History of Non-Fiction Film (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 3dimensional structural principles as they relate to the areas of packaging, exhibition, interior and environmental design. Prerequisites: ART 162 and 164

ART 291 Western Art I (lecture)

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

ART 292 Western Art II (lecture)

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

ART 300 History of Photography (lecture)

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

ART 301 Life Drawing (studio)

A developmental approach; a series of drawing exercises with emphasis on the human figure and the plastic articulation of its construction in a variety of media. Outside assignments required. Prerequisite: ART 161

ART 302 Graphic Illustration (studio)

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

ART 303 Greek and Roman Art (lecture)

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

Prerequisite: 1 course in art history

ART 311 Design Workshop I (studio)

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

Prerequisites: ART 160, 162, 164

ART 312 Design Workshop II (studio)

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

ART.313 Print and Publications (studio)

Introduction to the design and publication of books, magazines, catalogues, etc. Examines theory, styles, trends and mechanics of cover and interior design. Typographics, printing and the development of a personal creative approach. 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 321 Painting (studio)

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

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

ART 323 Watercolor (studio)

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

ART 324 Experiments in Color (studio)

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

ART 331 Advanced Gallery Workshop (studio)

The procedures and problems of curating exhibitions, writing catalogues. Visits to artist 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 jewely in silver and other metals by construction and casting techniques. Also projects in enameling and stone setting. Outside assignments required.

Prerequisite: 1 art foundation course

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 sheetmetals using hand-forming techniques for forging, raising and stretching. Projects in masonite die. Outside assignments required. Prerequisite: ART 160, 161, 162, 163 or 164

ART 341 Sculpture (studio)

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

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

ART 351 Printmaking (studio)

Introduction to printmaking involving relief, intaglio and silkscreen techniques. Outside assignments required. Prerequisites: ART 161, 162

ART 361 Ceramics (studio)

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

ART 363 Furniture Design (studio)

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

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

ART 371 Photography (studio)

Experiences in the use of the camera, basic developing of black and white film, printing, enlarging, toning and experimental photography. Experimental photography as a means of visual expression: Major emphasis on creativity and design. Outside assignments required. Prerequisite: ART 162

ART 373 Studio Photography (studio)

A studio course for the student having a firm grasp of black and white photographic and darkroom skills. Covers aspects of artificial light and commercial studio techniques. in portraiture, still life, fashion and interior photography using the hand and view camera. Prerequisite: ART 371

ART 374 Color Photography (studio)

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

ART 392 Ancient Art (lecture)

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

ART 394 Northern Renaissance Art (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 the masters.

Prerequisite: 1 course in art history

ARI 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

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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. Prerequisites: ART 311, 312

ART 414 Thesis Project II (studio)

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

ART 416 Introduction to Art Therapy (studio)

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

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

ART 421 Advanced Painting (studio)

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

ART 422 Thesis Painting I (studio) Senior-level course. An in-depth personal investigation of various media and theorectical aspect of painting. A complete portfolio presentation required for successful completion of Thesis Painting I and

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

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 reauired.

Prerequisite: ART 162

ARI 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 H.

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 ex-

perimental techniques. Emphasis on color printings 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.

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ART 490 Islamic Art and Architecture (lecture)

An in-depth study of painting, decorative arts and architecture within their cultural contexts in countries whose art forms were influenced by the Muslim religion. Emphasis on Iran. Other countries include Egypt, Spain, Turkey, Iraq, Syria and India, from the founding of Islam in the seventh century through the seventeenth century. Prerequisite: 3 credits in art history

ART 491 The Age of Neo-Classicism (lecture)

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

ART 493 Masterpieces of the Illuminated Manuscript (lecture)

A study of manuscript illumination from the fifth century through the humanist sixteenth-century manuscripts of Italy. Special emphasis on the relationship of patrons, such as Charlemagne, to their manuscripts as well as to some outstanding cycles of illustrations in the texts of the Apocalypse, Virgil, Dante and Boccaccio. Prerequisite: 3 credits in art history

ART 494 Byzantine Art (lecture)

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

Prerequisite: one course in art history

ART 499 Independent Study

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

Department of Communication

Professor—A. Maltese (chairman) Associate Professors—S. Berman, U. Bonsignori, T. Klos, A. Lenrow Assistant Professors—J. Chamberlain, P. Del Colle, H. Jackson, M. Rhea, R. Smiley Instructor—D. Peck

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

The interpersonal communication concentration provides courses in the theory and practice of verbal and extraverbal communication in contexts including one-toone, 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 newsgathering and reporting process.

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

| MAJOR REQU | IREMENTS 3 | 0 credits |
|----------------|---------------------------------|-----------|
| COMM 110 | Communication in Action | 3 |
| COMM 120 | Mass Communicati | ion 3 |
| COMM 444 | Colloquium in Com munication | n- 3 |
| Plus two of th | e following courses: | |
| COMM 220 | Radio and Televisio | n 3 |
| COMM 234 | Film as Medium | 3 |
| COMM 250 | Journalism | 3 |
| COMM 260 or | Oral Interpretation | 3 |
| COMM 266 | Dynamics of Com- munication | 3 |

The remaining 15 credits are to be chosen from among offerings of the department with a catalog number of 200 or above.

CERTIFICATION REQUIREMENTS (K-12)

| (K-12) | | 61 credi | its |
|-------------------------------|-------------------------------|---|-------------|
| certific | cation | rerested in obtaining teach * in speech and dramatic ar ete 61 credits as follows: | |
| | A 260 | Oral Interpretation Foundations of Lan- guage | 3 3 |
| COMM | Л 266 | Dynamics of Com- munications | 3 3 |
| or COMN | Л 363 | Public Speaking . | 3 |
| THEA | 161 | Acting: Principles of Char- acterization | 3 |
| thea Path | 162 364 | Stagecraft I Voice and Speech Pro- duction | 3 3 |
| One c THEA THEA THEA | of the t 210 260 310 | Playscripts I Playscripts I Playscripts II History of Theatre | 3 3 3 |
| PSY HSC TED | 110 120 310 | General Psychology Current Health Problems Educational Psychology: Adaptations and In- terventions in the | 3 3 3 |
| SED | 340 | Classroom Exploring the Teaching Field (A pre-student | 1 |
| SED | 302 | teaching requirement) Discovering Your Teaching Self (K-12) | 3. |
| rla Rla | 329 330 | Foundations of Reading Reading Strategies for the Content Areas | 3 3 |
| SED | 301 [·] | Curriculum and Its Im- | 3 |
| SED | 330 | Implementing Your Teaching Major (K-12) | 3 |
| EDUC | 403 | Culminating Field Ex- perience (formerly Stu- | 8 |
| SED | 404 | dent Teaching) Instructional Seminar for Student Teaching | 1 |
| Plus c area: | ne co | purse from the human relatio | ns |
| SED SED | 381 391 | Educational Sociology Challenge, Change and Commitment in | 3 |
| SED | 432 | Education Human Adaptations and | 3 |
| URED | 482 | Alternatives in the School The Inner City Child and His Environment | 3 |

Plus one course from the professional preparation area:

| LMS | 323 | Modern Educational Media | 3 |
|-----|------------------|---|----------|
| SED | 329 | The Competencies of Open Education | 3 |
| SED | 342 | Ecology for Educators | 3 |
| SED | 380 | Insights and Outlooks in Education | 3 |
| SED | 428 | Simulated Laboratory Ex- periences in Secondary Schools | 3 |
| SED | 430 | Teaching Literature to Young Adults: Grades 5-12 | 3 |
| SED | 480 _. | Field Research in Teacher Education | 3 |
| | | | |

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

Courses

Unless otherwise noted, all courses are for 3 credits.

COMM 110 Communication in Action

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

COMM 120 Mass Communication

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

COMM 220 Radio and Television

An introductory course tracing the historical development and implications of the media. The student is introduced to programming materials, criticisms, standards, skills and production methods. Prerequisite: COMM 120

COMM 221 Introduction to Communication Theory

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

COMM 222 The Press in a Free Society

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

Prerequisite: COMM 120

COMM 225 Audio Production

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

COMM 230 Filmmaking I

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

COMM 234 Film as Medium

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

Prerequisite: COMM 120

COMM 250 Journalism

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

Prerequisites: COMM 120, ENG 110

COMM 260 Oral Interpretation

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

Prerequisite: COMM 100 or permission of the instructor

COMM 265 Foundations of Language

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

COMM 266 Dynamics of Communication

A study of the meaning of verbal and nonverbal languages and the influence of these languages as tools for 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. Prerequisite: COMM 321

COMM 323 Television Production

Practice in writing, producing, directing, performing and crewing television productions and video-tape 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 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 Documentary Film Production An intensive laboratory course in film prod-

uction. Covers documentary techniques: research, scheme of project, storyline, plan of operation, choice of locations and people to interview. Covers problems and concerns in selection of equipment, crew, lighting on location, screening, narration and editing. Special emphasis on audio and optical effects. Prerequisite: COMM 331

COMM 333 Film Animation I

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

COMM 334 Film Animation II

An advanced study of the techniques of animated film production. Each student completes an animated film. Prerequisite: COMM 333

COMM 348 Public Relations

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

COMM 349 Radio News

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

COMM 350 Television News

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

Prerequisites: COMM 250, 323

COMM 351 Advanced Reporting

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

COMM 352 Broadcast Advertising

Introduces the student to the development and philosophy of broadcast advertising. Theory and practice of commercial advertising techniques are covered. Emphasizes the nature of the creative process and the relationship existing among client, broadcaster and the government. Prerequisites: ENG 110, COMM 220

COMM 361 Successful Business and Professional Communication

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

Prerequisite: COMM 260 or permission of the instructor

COMM 363 Public Speaking

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

COMM 365 Introduction to Rhetoric

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

COMM 421 Broadcast Management

An appraisal of management problems in commercial broadcasting for the advanced student. Includes sales and profit, personnel, programming, audience, governmental regulations and technical 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 425 Television Workshop

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

Prerequisite: COMM 326

COMM 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. Intérviews, continuity, and commercial copywriting are handled with emphasis on storyboard techniques. Viewing and analysis of professional scripts are included.

Prerequisite: ENG 110

COMM 432 Dramatic Film Production

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

Prerequisite: COMM 331

COMM 434 Current Cinema

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

Prerequisite: COMM 234

COMM 437 Film Editing

The study of the art and technique of editing a sound film in Super-8 and 16 mm. The continuity of a story on film. Cinematic time. The visual rhythm within a sequence. Visual and audio relationships. Film structure. Montage. The technique of editing from the screening of the "dailles" 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 nonfiction writing for today's periodical. Students learn how to analyze market needs, develop ideas suitable for publication, prepare manuscripts and market what's been written.

Prerequisite: COMM 250

COMM 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 459 Journalism Field Studies

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

COMM 460 Reporting Public 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.

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

THE SCHOOL OF THE ARTS AND COMMUNICATION

Department of Music

Professors: H. Aitken, J. Anderson, R. DesRoches, D. Fornuto, D. Heier, M. Krivin, R. Latherow (chairman), W. Woodworth Associate Professors—R. Foley, G. Kirkpatrick

Assistant Professors—G. Bouchard, P. Finney, D. Garcia, N. Guptill, V. Hill, J. Kresky, M. O'Connor, R. Reid, J. Weidensaul

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

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

Auditions

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

Entrance Requirements: Applied Music

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

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

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

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

Percussion: Demonstration of snare drum rudiments. A basic technical knowledge of the mallet instruments. Elementary exercises for timpani. Guitar: Segovia scales, major and minor, one étude by either Sor (Segovia ED), Carcassi, or Aguado. Two concert pieces of the student's own choice from either "pre"-Baroque (ex. De Visee, Sanz, Milan, etc.), Baroque (Bach, Weiss, etc.), or Romantic Spanish (Tarrega, ex. Adelita; Liobet, ex. "El Testament D'Amelia").

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

Entrance Requirements: Jazz (for freshmen)

Piano and Guitar

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

Dorian, Mixolydian, Lydian modes. Basic 6th and 7th chords: Major and minor 6th and 7th; dom. 7th; min. 7th b5; min. with maj. 7th; half dim. 7th; dim 7th; aug. 7th.

Sight read lead sheets.

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

Single Line Instruments

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

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

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

Blues—Several keys (various tempos).

Vocal

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

Drums

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

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

Major Programs

The B.A. degree is designed for students who desire a liberal education with emphasis on music while obtaining a diversified education in the liberal arts. A student chooses one of two concentrations: 1) applied music, 2) musical studies. Neither of these concentrations certifies the student to teach music in the public schools of New Jersey. Students interested in traditional classical performance should choose the applied music concentration and students who desire a less specialized musical education should choose the musical studies concentration.

| | | SIC (B.A.) | |
|-------|-------|--------------------------------|-----------------------|
| REQUI | REME | | |
| Requi | red C | ourses 32 crec | lits |
| MUS | 160 | Freshman Compre- | 3 |
| | | hensive Musicianship I | |
| MUS | 161 | Freshman Compre- | 3 |
| | | hensive Musicianship II | |
| MUS | 162 | Applied Music Major | 2 .2 1 |
| MUS | 163 | Applied Music Major | .2 |
| MUS | 180 | Freshman Ear Training I | 1 |
| MUS | 181 | Freshman Ear Training II | 1 |
| MUS | 234 | Sophomore Recital Per- | 0 |
| | | formance | _ |
| MUS | 260 | Sophomore Compre- | 3 |
| | | hensive Musicianship I | - |
| MUS | 261 | Sophomore Compre- | 3 |
| • | | hensive Musicianship II | _ |
| MUS | 262 | Applied Music Major | 2 2 1 1 |
| MUS | 263 | Applied Music Major | 2 |
| MUS | 280 | Sophomore Ear Training I | 1 |
| MUS | 281 | Sophomore Ear Training II | |
| MUS | 310 · | Junior Recital Per- | 0 |
| | • | formance | _ |
| MUS | 311 | Junior Recital Per- | 0 |
| | | formance II | ~ |
| MUS | 362 | Applied Music Major | 2 |
| MUS | 363 | Applied Music Major | 2 |
| MUS | 462 | Applied Music Major | 2 2 2 2 0 |
| MUS | 463 | Applied Music Major | 2 |
| MUS | 464 | Senior Recital Per- | U |
| | | formance | |
| NOTO | | idents in this concentration (| nre |

Note: All students in this concentration are required to attend 8 semesters of recital hour.

| Directed Electives 16 cree | | | dits | |
|---|-----|--------------------------------------|------|--|
| MUS | 164 | Functional Class Piano I | 1 | |
| MUS | 165 | . Functional Class Piano II | 1 | |
| MUS | 207 | Music History and Liter ature I | ą | |
| MUS | 208 | Music History and Liter- ature II | 3 | |
| MUS | 264 | Functional Class Piano III | 1 | |
| MUS | 265 | Functional Class Piano IV | 1 | |
| MUS | 304 | Studies in Music | 3 | |
| MUS | 401 | Twéntieth Century Music I | 3 | |
| Note: An entrance audition is required for admission to the applied music major. | | | | |

| MUSI | CAL S | TUDIES (B.A.) | |
|------|--------|----------------------------|-----------|
| requ | IREME | NTS 32 cre | dits |
| Requ | ired (| Courses 20 cre | dits |
| MUS | 160 | Freshman Compre- | 3 |
| | | hensive Musicianship I | |
| MUS | 161 | Freshman Compre- | 3 |
| | | hensive Musicianship II | |
| 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 | 260 | Sophomore Compre- | 3 |
| | | hensive Musicianship I | |
| MUS | 261 | Sophomore Compre- | 3 |
| | | hensive Musicianship II | |
| MUS | 264 | Functional Class Piano III | 1 |
| MUS | 265 | Functional Class Piano IV | .1 1 |
| MUS | 280 | Sophomore Ear Training I | <u></u> 1 |
| MUS | 281 | Sophomore Ear Training II | 1 |

- P

| Direc MUS | ted El 207 | ectives 12 cred Music History and Liter- | l its 3 |
|--------------|---------------|---|--------------------------------------|
| MUS | 208 | ature I Music History and Liter- | 3 |
| MUS | 304 | Studies in Music | 3 |
| MUS | 401 | Twentieth Century Music I | 3 |
| | | S AND | |
| | IREME | ICE (B.M.) NTS | ite |
| | | · · | |
| MUS MUS | 155 160 | Jazz Harmony Freshman Compre- | 3 3 |
| 14100 | 100 | hensive Musicianship I | Ű |
| MUS | 161 | Freshman Compre- | 3 |
| | | prehensive Musicianship II | |
| 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 | 190 | Applied Music Major | 4 |
| MUS | 191 | Applied Music Major | 4 |
| MUS | 205 | Applied Music Minor* | 1 |
| MUS | 206 | Applied Music Minor* | 1 |
| MUS MUS | 220 234 | Jazz History Sophomore Recital | 0 |
| MUS | 234 | Western Art Music | 2 |
| 10103 | 200 | Jazz Performance Groups | S R |
| MUS | 237 | Jazz Improvisation I | 2 |
| MUS | 238 | Jazz Improvisation II | 2 |
| MUS | 260 | Sophomore Compre- | 1 3 0 3 8 2 2 3 |
| | 200 | hensive Musicianship I | Ũ |
| MUS | 261 | Sophomore Compre- | 3 |
| | 0/0 | hensive Musicianship II | |
| MUS | 268 | Functional Class Jazz Piano I | 1 |
| MUS | 269 | Functional Class Jazz Piano II | 1 |
| MUS | 280 | Sophomore Ear Training I | 1 |
| MUS | 281 | Sophomore Ear Training II | 1 |
| MUS | 290 | Applied Music Major | 4 |
| MUS | 291 | Applied Music Major | 4 |
| MUS | 305 | Applied Music Minor* | 1 |
| MUS | ,306 | Applied Music Minor* | 1 |
| MUS | · 310 | Junior Recital | 0 |
| MUS | 311 | Performance I Junior Recital | 0 |
| | 011 | Performance II | Ŭ |
| MUS | 322 | Jazz Improvisation III | 2 |
| MUS | 323 | Jazz Improvisation IV | 2 |
| MUS | 368 | Functional Class Jazz Piano III | 1 |
| MUS | 369 | Functional Class Jazz | 1 |
| | | Piano IV | |
| MUS | 370 | Jazz Arranging | • 3 |
| MUS | 371 | Advanced Jazz Arranging | 3 |
| MUS | 390 | Applied Music Major | 4 |
| MUS | 391 | Applied Music Major | - 4 |
| MUS | 464 | Senior Recital Per- | Ó |
| | | formance | |
| MUS | 490 | Applied Music Major | 4 |
| MUS | 491 | Applied Music Major | 4 |
| MUS | 495 | 'Jazz/Pop Style and Repertoire | 3 |
| *Voca | lists and | percussionists substitute MUS 205, 206, | 305. |

*Vocalists and percussionists substitute MUS 205, 206, 305, 306 for MUS 322, 323. †Functional Class Piano courses not required for pianists.

Note: Percussionists substitute 8 semesters of rhythm section and/or performance group for improvisation. Functional Class Plano not required if piano is principal instrument. Jazz vocal majors substitute piano or guitar minor for improvisation.

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 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 school 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.

| voc | | NCENTRATION 61 cree | dits |
|---------|-------|---------------------------|------------------|
| MUS | · 101 | Flute and Clarinet | 1 |
| MUS | 103 | Trumpet | 1 |
| MUS | 105 | Violin | 1 |
| MUS | 107 | Guitar | 1 |
| MUS | 108 | Percussion | 1 |
| MUS | 160 | Fresman Compre- | 3 |
| 11100 | 100 | hensive Musicianship I | 0 |
| MUS | 161 | Freshman Compre- | 3 |
| 14100 | .101 | hensive Musicanship II | 0 |
| MUS | 162 | Applied Music Major | 0 |
| | 163 | | 2 2 1 1 |
| MUS | 164 | Applied Music Major | 2 |
| MUS | | Functional Class Piano I | 1 |
| MUS | 165 | Functional Class Piano II | 1 |
| MUS | 166 | Voice Class I (not re- | 1 |
| | | quired of voice majors) | |
| MUS | 167 | Voice Class II (not re- | 1 |
| | | quired of voice majors) | |
| 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 Liter- | 3 |
| | | ature I | - |
| MUS | 208 | Music History and Liter- | 3 |
| | | ature II | |
| MUS | 234 | Sophomore Recital Per- | 0 |
| N 41 10 | 0/0 | formance | ~ |
| MUS | 260 | Sophomore Compre- | 3 |
| N 41 10 | 0/4 | hensive Musicianship I | ~ |
| MUS | 261 | Sophomore Compre- | 3 |
| | | hensive Musicianship II | _ |
| MUS | 262 | Applied Music Major | 2 2 1 |
| MUS | 263 | Applied Music Major | 2 |
| MUS | 266 | Functional Class Piano- | 1 |
| | | Advanced | |
| MUS | 267 | Functional Class Piano- | 1 |
| | | Advanced . | |
| 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 | 3 3 1 1 |
| MUS | 306 | Applied Music Minor | 1 |
| MUS | 307 | Basic Conducting | 2 |
| MUS | 308 | Choral Conducting | 2 |
| MUS | 310 | Junior Recital Per- | ō |
| | - | formance I | - |
| | | | |

| MUS | 311 | Junior Recital Per- | 0, |
|------|-----|------------------------|-----|
| | | formance II | |
| MUS | 362 | Applied Music Major | 2 |
| MUS | 363 | Applied Music Major | 2 |
| MUS | 462 | Applied Music Major | · 2 |
| •MUS | 464 | Senior Recital Perfor- | 0 |
| | | mance (two semesters) | |

Note: All students in this concentration are required to attend 7 semesters of recital hour. Six semesters of vocal seminars are also required of voice majors. Note: Students admitted as performance majors in band or orchestral instruments must choose the concentration in instrumental music. This concentration provides for specialization in preparation for teaching instrumental music, grades K-12.

SECONDARY EDUCATION (K-12)

| REQUI | REME | NTS 40 cred | lits |
|-------|-------|------------------------------------|-------------|
| PSY | 110 | General Psychology | 3 |
| HSC | 120 | Current Health Issues | 3 3 |
| PSY | 210 | | 3 |
| F31 | 210 | Developmental Psy- | 3 |
| 055 | | chology | ~ |
| SED | 302 | Discovering Your | 3 |
| | | Teaching Self | |
| SED | 324 | Music Education | 3 |
| rla | 329 | Foundations of Reading | 3 |
| rla | 330 | Reading Strategies for | 3 3 3 |
| | | the Content Areas | ۰. |
| SED | 340 | Exploring the Teaching | 1 |
| 020 | 0.10 | Field (A pre-student | |
| | | | |
| EDUC | 402 | teaching requirement) | ~ |
| EDUC | 403 | Culminating Field Ex- | 8 |
| | | perience (formerly stu- | |
| | | dent teaching) | |
| Sed | 404 | Instructional Seminar for | 1 |
| | | Student Teaching | |
| FASE | 406 | Music Education in the | 3 |
| | | Elementary School | Ũ |
| Plus | | ourse from the human relatio | ne |
| area: | | | 113 |
| | 204 | | ~ |
| SED | 381 | Educational Sociology | 3 3 |
| SED | 391 | Challenge, Change and | - 3 |
| | | Commitment in Educa- | |
| | | tion · | |
| SED | 432 | Human Adaptations and | 3 |
| | | Alternatives in the School | |
| URED | 482 | The Inner City Child and | 3 |
| UNLD | | His Environment | Ŭ |
| Due | | purse from the professional pre | ~ ~ |
| | n are | | ab- |
| | | | 2 |
| SED | 329 | The Competencies of | 3 |
| | | Open Education | - |
| SED | 342 | Ecology for Educators | 3 3 |
| SED | 380 | Insights and Outlooks in | 3 |
| • | | Education | |
| SED | 428 | Simulated Laboratory Ex- | 3 |
| | | periences in Secondary | |
| | | Schools | |
| SED | 430 | Teaching Literature to | 3 |
| JLD | 430 | Young Adults: Grades | 3 |
| | | | |
| 000 | 400 | 5-12 Field Desegrate Studies in | ~ |
| SED | 480 | Field Research Studies in | 3 |
| | | Teacher Education | _ |
| LMS | 323 | Modern Educational | 3 |
| | | Media | |
| | | | |

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INICTOURAENITAL

| | UMEN | | |
|---------|-----------|------------------------------------|---------------------------------|
| | | ATION 61 cre | dits |
| 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 Compre- | 1 |
| | | hensive Musicianship I | |
| MUS | .161 | Freshman Compre- | 3 |
| | 1 0 | hensive Musicianship II | |
| MUS | 162 | Applied Music Major | ·2 |
| MUS | 163 | Applied Music Major | ·2 2 |
| MUS | 164 | Functional Class Piano I | 1 |
| MUS | 165 | Functional Class Piano II | 1 |
| MUS | 166 | Voice Class (not re- | 1 |
| | 100 | quired of voice majors) | |
| MUS | 167 | Voice Class II (not re- | 1 |
| 14100 | 107 | quired of voice majors) | 1 |
| MUS | 180 | Freshman Ear Training I | 1 |
| MUS | 181 | Freshman Ear Training II | 1 |
| MUS | 207 | | 3 |
| 10103 | 207 | Music History and Liter- | 3 |
| MUS | 200 | ature I Musia Uiston (and Liter | 3 |
| 10103 | 208 | Music History and Liter- | ა |
| MILIC | 024 | ature II Sanhamara Daaital Dar | 0 |
| MUS | 234 | Sophomore Recital Per- | 0 |
| N ALLO | 040 | formance | ~ |
| MUS | 260 | Sophomore Compre- | 3 |
| MUC | 044 | hensive Musicianship I | 2 |
| MUS | 261 | Sophomore Compre- | 3 |
| N 4L IC | 0/0 | hensive Musicianship | ~ |
| MUS | 262 | Applied Music Major | 2 2 1 |
| 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 1 | • 1 |
| MUS | 281 | Sophomore Ear Training II | 1 |
| MUS | 301 | Form and Analysis | 3 |
| MUS | 302 | Arranging | 3 |
| MUS | 307 | Basic Conducting | 1 1 3 3 2 3 0 |
| MUS | 309 | instrumental Conducting | · 3 |
| MUS | 310 | Junior Recital Per- | 0 |
| | | formance l | |
| MUS | 311 | Junior Recital Per- | 0 |
| | | formance II | |
| MUS | 362 | Applied Music Major | 2 |
| MUS | 363 | Applied Music Major | 2 2 2 0 |
| MUS | 462 | Applied Music Major | 2 |
| MUS | 464 | Senior Recital Per- | 0 |
| | | formance | |
| Note: | : All stu | udents in this concentration | are |
| | | attend 7 semesters of rec | |

required to attend 7 semesters of recital hour.

SECONDARY EDUCATION (K-12) REQUIREMENTS 40 credits

See secondary education (K-12) requirements, under Vocal Concentration on p.30.

| MINC | or requir | EMENTS 18 cr | edits |
|------|-----------|--|--------|
| MUS | 160-161 | Freshman Com- prehensive Musi- cianship I and II | 6 |
| MUS | 164-165 | Functional Class Pianc -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 aré for 3 credits.

Performing Groups

| of the | ə con | ant audition and the permission ductor required. Liberal studies |
|--------|--------|---|
| credi | t is g | iven to non-majors for partici- |
| | | nese groups. |
| MUS | 200 | Concert Choir |
| MUS | 202 | College Chorus (no |
| | | audition) |
| MUS | 203 | Chamber Singers |
| MUS | | Concert Band |
| MUS | | Preparatory Band |
| MUS | | Brass Ensemble |
| MUS | | Brass Quintet - |
| MUS | 216 | Woodwind Ensemble— |
| | | Clarinet |
| MUS | 217 | Woodwind Ensemble— |
| | | Saxophone |
| MUS | | Woodwind Quintet |
| MUS | | Percussion Ensemble |
| MUS | 221 | WPC—NJ Percussion En- |
| | | emble . |
| MUS | 222 | Jazz Ensemble |
| MUS | 223 | Chamber Jazz Ensemble |
| | | (multiple sections) |
| MUS | 224 | Jazz Guitar Lab (multiple |
| | | sections) |
| MUS | 225 | Jazz Rhythm Section |
| | | (multiple sections) |
| MUS | 226 | Jazz Guitar Ensemble |
| MUS | | Trombone Ensemble |
| MUS | 230 | Classical Guitar En- |
| | · · | semble |
| MUS | 231 | Twentieth Century |
| | 0.00 | Chamber Ensemble |
| | 233 | |
| MUS | 235 | Latin Jazz Ensemble |
| 1 cre | dit ea | cn . |
| 1 | | |

Instrumental Classes

Class instruction in basic performance skills on standard instruments. Students proven proficiention an instrument, upon examination, are excused from that class. Classes meet two hours weekly for one semester. MUS 101 Flute and Clarinet MUS 102 **Double Reeds** MUS 103 Trumpet MUS Low Brass 104 MUS 105 Violin MUS 106 Low Strings MUS 107 Guitar

MUS 108 Percussion 1 credit each

MUS 000 Recital Hour

Recital hour is required of B.S. majors for seven semesters and of B.A. and B.M. majors for eight semesters. Guest artists, faculty artists and student performers are featured in this weekly concert series. 0 credits

MUS 110 Basic Music Studies

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

MUS 120 Music Appreciation

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

MUS 130 Symphonic Music

A student of representative European and American symphonies, tone poems and concertos from the eighteenth century to the present. A liberal studies course.

MUS 140 Opera

A survey of opera in Europe and America from its beginning to the present. Emphasis on the works of Mozart, Verdi, Wagner and Puccini. A liberal studies course.

MUS 160-161 Freshman Comprehensive Musicianship | and ||

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

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

Individual instruction in piano, organ, voice, guitar, percussion, band and orchestral instruments. 2 credits each

MUS 164-165 Functional Class Piano I and II

A beginning course for music majors who do not have keyboard fácility. 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. Sight-reading and interpretation are stressed. Methods and materials for teaching. 1 credit each

MUS 180-181 Freshman Ear Training I and II

An integrated course that includes the development of sight-singing, dictation and rhythmic skills. Alto and teno clefs are introduced during the freshman year. 1 credit each

MUS 190, 191, 290, 291, 390, 391, 400, 491 Applied Music Major

Individual instruction in piano, organ, voice, guitar, percussion, band and orchestral instruments. 4 credits each

MUS 205, 206, 305, 306 Applied Music Minor

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

1 credit each

MUS 207-208 Music History and Literature I and II

The growth of Western music from its beginnings through the first half of the twentieth century. Prerequisite: MUS 161 3 credits each

MUS 220 Jazz History

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

MUS 234 Sophomore Recital Performance

Taken with MUS 263 or MUS 291. 0 credits

MUS 236 Western Art Music

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

MUS 237 Jazz Improvisation |

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

Prerequisite: MUS 161 and/or permission of the instructor

MUS 238 Jazz Improvisation II

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

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

MUS 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 aualified 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 course continue to develop the skills begun in MUS 164-165 with special emphasis on jazz improvisation, accompanying and harmonization styles.

1 credit each

MUS 280-281 Sophomore Ear Training I and II

More advanced work in sight singing, dictation and rhythmic skills with special emphasis on the techniques required to perform twentieth century music. 1 credit each

MUS 301 Form and Analysis

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

MUS 302 Arranging

A practical approach to arranging for choral and instrumental groups. Deals with the problems teachers encounter as directors of musical organizations. Voice leading, part distribution, range, transpositions and musical styles are studied. Prerequisite: MUS 261

MUS 304 Studies in Music

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

MUS 307 Basic Conducting

Presents the basic technique of conducting both with and without a baton. These techniques include basic beat patterns, preparation, cut-offs, feratas, tempos, moods, use of the left hand, etc. Each student conducts using the class as the performing medium. 2 credits

MUS 308 Choral Conducting

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

MUS 309 Instrumental Conducting

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

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

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

MUS 322-323 Jazz Improvisation III and IV Continuation of Improvisation II Prerequisites: MUS 161, 320, 321 and/or 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. Prerequisite: MUS 207

MUS 332 Music in the Late Renaissance and Baroque Periods

Analysis, performance and discussion of Western music from the sixteenth, seventeenth and early eighteenth centuries. Prerequisite: MUS 208

MUS 333 Music in the Rococo and Classical Periods

A study of the music from the sons of Bach through Beethoven. Prerequisite: MUS 208

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 and advanced piano majors to study the art of accompanying and to develop potential in this area of piano playing. Prerequisite: Permission of the instructor

MUS 341 Composition Class I

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

Prerequisite: MUS 161 and permission of the instructor

MUS 342 Composition Class II

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

Prerequisite: MUS 341 and permission of the instructor

MUS 370 Jazz Arranging

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

Prerequisite: MUS 260 and/or permission of the instructor

MUS 371 Advanced Jazz Arranging

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

Prerequisite: MUS 260 and/or permission of the instructor

MUS 401 Twentieth Century Music I

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

Prerequisite: MUS 160

MUS 408 Advanced Choral Conducting

Provides for continued study and practice of choral conducting techniques. Emphasis on developing good vocal tone production in choral groups, style and interpretation in choral literature and program building. Some of the standard larger choral works are studied. 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 464 Senior Recital Performance

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

MUS 495 Jazz/Pop Style and Repertoire

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

MUS 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of Theatre

Professors—W. Grant, R. Leppert, J. Ludwig, B. Sandbera, J. Young

B. Sandberg, J. Young Associate Professors—B. Gulbranson (chairman), R. Morgan

Half-Time Visiting Specialists—G. Lotito, L. Roots, M. Ryzuk, H. Sink

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

The dramatic arts have long been recognized as an endeavor that combines all of the arts, most of the crafts, and some of the sciences. For the student who wishes to increase his theatrical sensibilities, the dramatic arts major program is performanceoriented 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.

MAJOR REQUIREMENTS 30 credits

Although there are no formal prerequisites for admission, the Theatre Department recommends that the 3 following courses (9 credits) be taken by the student who has no formal training in dramatic arts:

| | thea Thea Thea | 101 102 104 | Introduction to Theatre Fundamentals of Acting Basic Play Production | 3 3 3 |
|---|----------------------|-------------------|--|-------------|
| | Requi | red C | ourses 15 crea | lits |
| | THEA | 162 | Stagecraft I | 3 |
| | THEA | 210 | Playscripts I | 3 |
| | THEA | 313 | Theatre Management | 3 |
| | THEA | 375 | Acting: Improvisational | 3 |
| | | | Techniques | |
| • | Plus th | nree of | f the four following practicum | |
| | exper | iences | 5: | |
| | THEA | 111 | Audience Management | 1 |
| | | | Laboratory | |
| | THEA | 112 | Technical Theatre Labo- | 1 |
| | | | ratory ~ | |
| | THEA | 114 | Costume Construction | 1 |

| THEA | 114 | Costume Construction | 1 |
|------|-----|-----------------------|---|
| | | Laboratory | , |
| THEA | 163 | Production Laboratory | 1 |
| | | | |

| | | | • |
|----------------------|-----------------|--|--|
| elect | gh ao a tòtc | 15 cre dvisement, the student n al of 15 credits from among oups of courses: | nust |
| PERFC THEA | DRMAN 161 | NCE AND PRODUCTION Acting: Principles of Char- acterization | 3 |
| thea Thea Thea | 223 | Acting: Scene Study Stage Speech Readers Theatre I | 3 3 3 3 3 |
| THEA | 309 | Field Experiences in Drama and Theatre | |
| thea Thea | 312 320 | Directing Movement Training for the Actor I | 3 3 |
| thea Thea | | Acting: Classical Theatre Techniques | 3 |
| THEA | 320 372 | Acting: Comic Tech- niques Stage Makeup | 3 3 3 |
| ìhea Thea | 376 | Acting: Musical Theatre Techniques Playwriting I | |
| thea Thea | 412 447 | Children's Theatre Theatre Workshop I | 3 3 3-6 |
| thea Thea Thea | 479 | Theatre Workshop II Acting: Showcase Field Experiences | 3-9 3 |
| Desig Thea | | CHNICAL THEATRE Basic Costuming | 3 |
| thea Thea Thea | 330 | Stagecraft II Scene Painting I Stage Mahagement | 33 |
| thea Thea | 334 379 | Stage Lighting Scene Design I | 3 3 3 3 3 3 3 3 3 3 3 3 |
| thea Thea | | Scene Design II Advanced Lighting and Sound | 3 |
| thea Thea | 430 481 | Scene Painting II Costume Design | 3 3 |

DIRECTED ELECTIVES 9 credits Each student must elect 9 credits from the following courses in the history and criticism of theatre and drama:

| THEA 2 | 212 | Broadway Matinees I | 3 |
|---------|-----|---|---|
| THEA, 2 | 260 | Playscripts II | 3 |
| THEA 2 | 263 | American Musical | 3 |
| | | Theatre | |
| THEA 3 | 310 | History of Theatre | 3 |
| THEA 3 | 361 | Broadway Matinees II | |
| THEA 3 | 363 | American Theatre and | 3 |
| | | Drama | · |
| Make: F | + | ويصاحبه ومعاومات والأربار الأسوار والأر | - |

Note: For the student who desires an advanced, in-depth experience in either acting or theatre design equivalent to B.F.A. programs elsewhere, a sequence of courses is available through advisement. Consult the chairman of the department for further information.

Courses

Unless otherwise noted, each course is for 3 credits.

The first three courses are especially designed to satisfy liberal studies 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 104 Basic Play Production

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

THEA 111 Audience Management Laboratory

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

THEA 112 Technical Theatre Laboratory

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

THEA 113 Rehearsal and Production

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

THEA 114 Costume Construction Laboratory

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

THEA 161 Acting: Principles of Characterization

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

THEA 162 Stagecraft |

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

THEA 163 Production Laboratory

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

THEA 210 Playscripts 1

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

THEA 212 Broadway Matinees I

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

THEA 213 Acting: Scene Study

An advanced course in acting techniques with an introduction to various styles and approaches through group scene work. Prerequisite: THEA 161

THEA 223 Stage Speech

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

THEA 232 Basic Costuming

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

THEA 260 Playscripts II

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

THEA 262 Readers Theatre I

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

THEA 263 American Musical Theatre

A study of the history and development of the American musical from its origin to the present day.

THEA 281 Stagecraft II

Advanced training in set construction. A continuation of THEA 162.
THEA 309 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 310 History of Theatre

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

THEA 311 Drama for Children

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

THEA 312 Directing

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

THEA 313 Theatre Management

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

THEA 320 Movement Training for the Actor I

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

THEA 325 Acting: Classical Theatre Techniques

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

THEA 326 Acting: Comic Techniques A concentrated study of the techniques appropriate to handling comedic roles.

THEA 330 Scene Painting I

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

THEA 333 Stage Management

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

THEA 334 Stage Lighting

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

THEA 340 Movement Training for the Actor II

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

THEA 361 Broadway Matinees II

Through analysis, interpretation and evaluation of playscripts, performances, films and other theatrical media, the course develops the student's understanding of the critical process. Students are required to write reports, reviews and critical essays. Includes field trips to plays and other theatrical events.

THEA 363 American Theatre and Drama

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

THEA 372 Stage Makeup

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

THEA 375 Acting: Improvisational Techniques

Basic principles in the development of performance through improvisation.

THEA 376 Acting: Musical Theatre Techniques

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

THEA 379 Scene Design |

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

THEA 380 Scene Design II

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

THEA 382 Stage Drafting

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

THEA 384 Advanced Lighting and Sound

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

THEA 411 Playwriting I

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

THEA 412 Children's Theatre

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

THEA 430 Scene Painting II

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

THEA 432 Design: Periods and Styles

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

THEA 447 Theatre Workshop I

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

THEA 448 Theatre Workshop II

A continuation of THEA 447. 3-9 credits

THEA 461 Playwriting II

A more advanced and individualized continuation of THEA 411. Prerequisite: THEA 411

THEA 476 Acting: Realism

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

THEA 479 Acting: Showcase

A directed independent practicum culminating in a public performance.

THEA 481 Costume Design

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

THEA 499 Independent Study in Performance

An advanced performance project under faculty supervision.

Prerequisite: Approval of the chairman

The School of Education and Community Service

Theodore Provo, Dean Raubinger 430

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

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

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

Undergraduate Evening Students

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

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

Students interested in certification in bilingual/bicultural education should consult p. 76; in teaching English as a second language, p. 76; in speech correction, p. 58; and in health, p. 55.

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 by graduating seniors.

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

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

- 1. Admission to the appropriate major department.
- Approval of the individual applicant by the Program Review Committee of the department, which is responsible for certification, based on the following standards:
 - (a) A cumulative grade point average
 - of 2.25 at the close of the semester immediately preceding student teaching.
 - (b) A cumulative grade point average of 2.5 in the major field, in directed electives, and in the teacher education sequence.
 - (c) Satisfactory completion of all preliminary field experiences and methods courses required in the program.
 - (d) A minimum of 84 credits, completed at the end of the semester preceding student teaching.
 - (e) Completion of all requirements based on the freshman basic skills tests in reading, writing and mathematics and the successful completion of ENG 110, Writing Effective Prose.
 - (f) An analysis of speech patterns and problems (if any).
 - (g) Consideration of additional departmental standards in the form of auditions, physical performance requirements, submission of folio, specific skills tests, etc.
 - (h) A personal interview conducted by the appropriate review committee to appraise the previous requirements and recommend approval, disapproval, or tentative approval pending corrective work.
- 3. In addition, the student must:
 - (a) Have documentation of a negative test for tuberculosis during the eight months prior to the culminating field experience.
 - (b) Apply to the Office of Field Laboratory Experiences by February 1 of the junior year.
 - (c) Pay a service fee of \$60 (in addition to tuition fees) prior to the processing of the application for the culminating field experience.

Policies for the Culminating Field Experience

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

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

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

Requirements for Practicum Assignments

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

Courses

Unless otherwise noted, all courses are for 3 credits.

EDUC 333 Individualized Instruction

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

EDUC 403 Culminating Field Experience

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

40 credits

munity group's,

Prerequisites: See Field Laboratory Experiences, p. 36. 8 credits

EDUC 415 Senior Teaching Internship

This course meets the student teaching requirements through a full semester program which combines theory and practice. The 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. 36,

12 credits

EDUC 416 Performance Tasks in Teaching This seminar course, designed to accompany EDUC 415 Senior Teaching Internship, provides feedback and reinforcement in the process of combining educational theory and practice. Assignments are related to the ongoing tasks and problems of the internship. The course also explores innovative arrangements in schools and the need for effective teaching.

EDUC 465 In-Service Supervised Teaching Seminar I

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

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

4 credits

EDUC 466 In-Service Supervised Teaching Seminar II

A continuation of EDUC 465 4 credits

Department of Administrative, Adult and Secondary Programs

Professors-S. Balassi, S. Chao, H. Hartman, J. Gower, H. Gumaer

Associate Professors-R. Fern, C. Hartman (chairman), M. Kessler, R. Walker, S. Wollock Assistant Professor—C. Mancuso

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

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

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

College Majore

Cartification

| (for all levels) | College Majors |
|------------------|---------------------------------------|
| Social Studies | African and Afro- American Studies |
| Art , | Art |
| Science | Biology |
| Science | Chemistry |
| Speech Arts | Communication |
| English | English , |
| French | French |
| Social Studies | Geography ` |
| Social Studies | History |
| Mathematics | Mathematics |
| Music | Music ' |
| Social Studies | Political Science |
| Social Studies | Sociology |
| Spanish | Spanish |
| Social Studies | Urban Education |
| • | • |

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

Secondary Education

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

| SUBJECT FIELD | |
|---------------------|--|
| CERTIFICATION | |
| (K-12) REQUIREMENTS | |

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

His Environment

37

Plus one professional preparation course from the following:

| SED | 329 | The Competencies of Open Education | 3 |
|-----|-----|---------------------------------------|---|
| SED | 342 | Ecology for Educators | 3 |
| SED | 380 | Insights and Outlooks in | 3 |
| | | Education | |
| SED | 428 | Simulated Laboratory Ex- | 3 |
| | | periences in Secondar <u>y</u> | |
| | | Schools | |
| SED | 430 | Teaching Literature to | 3 |
| | | Young Adults: Grades | |
| | | 5-12 | |
| SED | 480 | Field Research in Teacher | 3 |
| | | Education ' | |
| LMS | 323 | Modern Educational | 3 |

Media *PSY 110 and HSC 120 may be applied toward partial fulfillment of liberal studies requirements.

Courses

Unless otherwise noted, all courses are for 3 credits.

SED 301 Curriculum and Its Implementation

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

SED 302 Discovering Your Teaching Self (K-12)

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

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

SED 324 Music Education II

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

Prerequisite: Admission to the instrumental or vocal music major

SED 326 Art, Children and Learning Vitality Students plan, develop, conduct, evaluate and share art activities, happenings, and learning experiences with interested youngsters in a program that develops in the college student an understanding of the function of art in the life of the child. Provides insights into the background, development, directions and thrusts of art education for the 1980's.

Prerequisite: Admission to the art major

SED 327 Art Education II

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

Prerequisite: Admission to the art major Corequisite: ELED 325 Teaching Art in the Elementary School

SED 329 The Competencies of Open Education

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

SED 330 Implementing Your Teaching Major (K-12)

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

MODULE A-English

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

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

MODULE B-Foreign Language

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

Corequisite: SED 301

MODULE C—Communication (Speech Arts)

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

Prerequisite: Admission to the communication major Corequisite: SED 301

SED 331 Implementing Your Teaching Major (K-12)

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

MODULE E-Mathematics

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

MODULE F—Science

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

Prerequisite: Admission to the biology or chemistry major Corequisite: SED 301

MODULE G-Social Studies

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

SED 340 Exploring the Teaching Field

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

Corequisite: SED 302 1 credit

SED 342 Ecology for Educators

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

SED 350. Teaching the Intermediate Years

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

SED 351 Field Experience and Seminar: Stratum I

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

SED 352 Curriculum of the Intermediate and Junior High School

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

SED 360 New Perspectives in English

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

SED 363 New Perspectives in Mathematics

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

SED 380 Insights and Outlooks in Education

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

SED 381 Educational Sociology

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

SED 383 Teaching Reading in Grades 5-12

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

SED 391 Challenge, Change and Commitment in Education

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

SED 392 Education in a Time of Crisis

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

SED 393 Adventures in Affective Education

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

SED 404 Instructional Seminar for Student Teaching

Explores current trends and developments in public education with particular attention to classroom management and other problems confronting student teachers. Conducted during the semester of the student teaching experience. 1 credit

SED 405 Art Education I

An analysis of methods, techniques and materials for teaching art in the elementary school. A study of philosophy and history of art education, curriculum organization, and art activities that contribute to the creative and mental growth of children. Corequisites: SED 327, 404 and EDUC 403 For art education majors

SED 406 Music Education I

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

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

SED 428 Simulated Laboratory Experiences in Secondary Schools

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

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

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

SED 432 Human Adaptations and Alternatives in the School

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

SED 435 Alternative Forms of Education

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

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

SED 436 Creativity and Display in Instruction

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

SED 437 Adult and Continuing Education A study of various program-sponsoring agencies and the participants they reach. The student observes how instructional devices and individualized techniques are utilized in teaching adults. Some class meetings are conducted in the field.

SED 438 Field Trips and Experiential Learning

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

SED 451 Education Laboratory: Crafts and Strategies in Earth Science

Study of techniques for conducting a laboratory oriented school earth science program. Presents and analyzes the interdisciplinary principles involved and experiential strategies. Emphasizes those processes and skills needed by prospective teachers for the effective exposition of the crafts of geoscience. Field experience for the application of concepts and skills is an integral part of the course. 4 credits

SED 480 Field Research Studies in Teacher Education

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

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

SED 499 Independent Study

As approved and to be arranged. 1-3 credits

Educational Administration

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

A "quality of life approach" to the study of (1) consumerism and (2) organizational arrangements for consumer education programs offered by public schools. Elective for teacher education majors. Students in other programs may be admitted with the permission of the instructor.

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

Considers manpower development and career-oriented education provided by public schools. Among topics: implementation of career education in a technological society; the manpower of revolution; career alternatives for the future; and schools and manpower policies. Elective for teacher education majors. Students in other programs may be admitted with the permission of the instructor.

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

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

Elective for teacher education majors.

Women's Studies

MINOR REQUIREMENTS

| MINC | R REG | UIREMENTS 18 cr | edits |
|---------|---------|-----------------------------------|-------------|
| HSA | 300 | Women's Changing Roles | 3 |
| or | | | |
| POL | 210 | Politics and Sex | · 3 |
| Plus fi | ve of t | he following courses: | |
| AAAS | 255 | The Black Woman | 3 |
| | | Experience | |
| ENG | 217 | Images of Women in | 3 |
| | | Modern Literature | |
| ENG | 219 | Nineteenth Century | 3 |
| | | Women's Voices | |
| ENG | 220 | Women, the Bible and | 3 |
| | 207 | Modern Literature | ~ |
| HSA | 307 | Sex Differences and Dis- | 3 |
| | | crimination in Public | |
| HSA | 499 | Education Independent Study in | 1-3 |
| поА | 499 | Women's Studies. | 1-3 |
| HSC | 210 | Women's Health | 3 |
| HIST | 250 | Women's History | 3 3 3 |
| PHIL | 324 | Philosophy of Sexual | 3 |
| | 524 | Politics | 0 |
| PSY | 311 | Psychology of Women | 3 |

Courses

Unless otherwise noted, all courses are for 3 credits.

HSA 300 Women: Changing Roles

A nistory 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.

HSA 307 Sex and Work Differences, Stereotypes and Discrimination in Education

Develops awareness of sex biases in our culture with particular emphasis on the role of the school. Explores methods of eliminating such biases in classroom instruction. An examination of materials currently being used in public schools.

Department of **Elementary Education**

Professors-A. Annacone, E.F. Arthur, J. Canino, T. Gerne, A. Geyer, L. Hummel, K. Job, E. Siegel, G. Vitalone, L. Walter, D. White, L. Zappo

Associate Professors-N. D'Ambrosio, W. Engels, G. Petine, E. Rinaldi, C. Spinosa, J. Tetens

Assistant Professors—P. Buckley, F. Goldberg, T. Kenefick, D. Lauricella, D. Malcolm, J. Peer (chairman), E. Petkus, J. Rockman

The elementary education program prepares students for teaching in a variety of classroom settings through a sequence of courses in educational foundations, methodology, professional subject matter and field experiences. The program is based on pertinent subject matter preparation and a blend of theory and practice. It is intended to give prospective teachers substantive backgrounds with a positive attitude toward self-evaluation, experimentation, innovation and change.

While the major focus is on the ability to create good learning situations in a variety of instructional and organizational patterns, students may need or wish to strengthen one or more subject matter areas. The program provides the opportunity for the individual student to design, with guidance, various concentrations in relevant areas of instruction, using various electives.

The department offers students courses and experiences to develop professionalized content backgrounds in the elementary school, in educational psychology and in the arts, mathematics, science, and social studies.

| MAJC | DR REG | QUIREMENTS 31 cre | dits |
|------|------------------|--|--------|
| ELED | 203 | The Urban School | 3 |
| ELED | 300 | Experience The Elémentary School | 3 |
| ELED | 301 | Practicum in Elementary | 3 3 |
| | | Education | _ |
| eled | 320 | Teaching Language Arts | 3 |
| | | in the Elementary School | |
| ELED | 323 | Teaching Social Studies | 2 |
| | | in the Elementary | |
| | 204 | School | 0 |
| ELED | 324 | Teaching Math in the Elementary School | 2 |
| ELED | 325 | Teaching Art in | 2 |
| | 020 | the Elementary School | - |
| Eled | 326 | Teaching Music in | 2 |
| | 0 0 7 | the Elementary School | |
| ELED | 327 | Teaching Science in the Elementary School | 2 |
| PE | 310 | Health and Physical | 3 |
| | | Education in the | • |
| | | Elementary School | |
| rla | 323 | Teaching Reading in | 3 |
| RLA | 423 | the Elementary School Advanced Reading | З |
| | 0 | , at at too a too daining | Ŭ |

| DIREC | TED | ELECTIVES 18 cre | dits |
|------------------|-------|--|--------|
| ELED | 230 | . Explorations in Art | 3 |
| ELED | 231 | Concepts and Skills of | 3 3 |
| | | Elementary Mathematics | _ |
| ELED | 232 | Fundamentals of Music | 3 3 |
| ELED | 234 | Concepts and Skills in | 3 |
| ELED | 239 | Social Studies | 3 |
| ELED | 239 | Concepts and Skills in Elementary Science | 3 |
| RLA | 325 | Children's Literature | 3 |
| KD V | 020 | | 0 |
| | | NAL EDUCATION 33 cre | dite |
| SEQU | | TAL EDUCATION 55 CIE | una |
| ELED | | Growth Processes of the | 3 |
| | 210 | School-Age Child | 0 |
| ELED | 310 | Educational Psy- | 3 |
| | 0.0 | chology | |
| EDUC | 405 | Senior Teaching In- | 12 |
| | | ternship | |
| ELED | 405 | Seminar in Educa- | 3 |
| | | tion | ÷ |
| PSY | 110 | General Psychology | 3 |
| Plus c | ne co | ourse from each of the follow | ing: |
| Grou | pA— | Human Relations | |
| SED [·] | 381 | Educational Sociology | |
| SED | 391 | Challenge, Change and | |
| | | Commitment in Educa- | |
| 055 | 400 | tion | |
| SED | 432 | Human Adaptations and | |
| | | Alternatives in the Schools | |
| URED | 182 | The Inner City Child and | |
| ONED | 402 | His Environment | • |
| · • | _ | | |
| | | Content | |
| CSP | 410 | Educational Testing and Evaluation | |
| ELED | 204 | Intuitive Geometry for | |
| | 204 | the Elementary School | |
| ELED | 205 | N.J. Studies for | |
| | | Teachers | |
| ELED | 206 | Earth Science for Teach- | |
| | | ers · · | |
| ELED | 303 | Crafts and Strategies in | |
| | | Elementary Math | |
| | | Professional Development | |
| LMS | 302 | Consumer Behavior and | |
| 1.1.40 | 204 | Education Instructional Media and | |
| LMS | 304 | the Curriculum | |
| LMS | 321 | Visual Media | |
| LMS | 323 | Modern Educational Me- | |
| Livio | 020 | dia | |
| LMS | 398 | Simulated Laboratory Ex- | |
| | | periences in Elementary | |
| | | Schools | |
| LMS | 401 | Preparation of Media Ma- | |
| 055 | 0.00 | terials | |
| SED | 329 | The Competencies of Open Education | |
| | | | |

Insights and Outlooks in 380 SED Education

ASSOCIATE EDUCATION **MEDIA SPECIÀLIST** ENDORSEMENT

Undergraduate teaching majors who wish certification as an associate educational media specialist should complete the following courses:

22 credits

| LMS | 201 | Introduction to Library/ Media Services | 3 |
|---------|-------|--|---|
| LMS | 202 | Information Sources | 3 |
| LMS | 303 | Organization of Informa- tion Media | 3 |
| LMS | 397 | Library/Media Internship (Practicum) | 4 |
| LMS | 401 | Preparation of Media | 3 |
| LMS | 402 | Materials Services of School Library/ Media Center | 3 |
| Plus c | ne of | the following: | |
| LMS | 203 | Media Selection for Children | 3 |
| LMS | 302 | Media Selection for Adolescents | 3 |
| 1 1 4 5 | 204 | Instructional Modia and | 3 |

Instructional Media and LMS - 304 the Curriculum

Courses

Unless otherwise noted, all courses are for 3 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 onsite seminar. The tutoring is supervised by a college instructor with the assistance of school personnel.

ELED 204 Intuitive Geometry for the **Elementary School**

Provides elementary school teachers with the basic concepts of position, shape and size. An informal study of the fundamental properties which characterize certain significant geometric configurations in the space of our environment.

ELED 205 N.J. Studies for Teachers

Develops the student's understanding of the comprehensive scope of New Jersey studies. Its content is drawn from the several social sciences and natural sciences, incorporating and integrating relevant and significant concepts and generalizations. Provides a content base for prospective teachers preparing to meet state studies requirements and needs.

ELED 206 Earth Science for Teachers

A study of the interdisciplinary basic principles of earth science. Provides a framework for understanding the unique physical characteristics of planet earth. Emphasis on those processes and skills needed by prospective teachers to effectively teach geoscience.

ELED 210 Growth Processes of the School-Age Child

Principles and applications of the growth and thinking processes which affect the school-age child and his learning environment are explored. The course offers an indepth study of the child from 5-16. An overview of infancy and late adolescence is included.

ELED 221 Crafts in the School

A workshop. The student designs and executes problems in wood, clay, metal, leather and weaving in terms of interests and the general level at which he expects to teach. The relationship of crafts to elementary education is explored.

ELED 230 Explorations in Art

An art workshop designed to enable the elementary major to become familiar with creative art involvement and the media and techniques necessary to accomplish an understanding of art.

ELED 232 Fundamentals of Music

The elements of music including notation, the formation of scales, keys, diatonic chords, tonal and rhythmic patterns. The student should acquire the ability to sing a simple melody at sight and carry a harmony part in a two- or three-part song.

ELED 234 Concepts and Skills in **Elementary Social Studies**

Identifies the organizing concepts of each of the social-science disciplines: anthropology, economics, geography, history, political science and sociology as they apply to social studies for the elementary school. Highlights the content background necessary for acquiring skills necessary to teach the social studies.

ELED 239 Concepts and Skills in **Elementary Science**

Emphasis on the identification of basic concepts which describe the natural world. Covers scientific research techniques and current issues in science. Skills of inquiry and gathering and evaluating evidence for making valid descriptions of natural phenomena are pursued. New elementary school science curriculum guides, with their sequential conceptual schemes, are examined in the light of their implications or innovations at all levels.

ELED 300 The Elementary School

Current and changing perspectives in education as they apply to the organization of the elementary school, including implications for current development and teacher preparation. Team teaching, open classroom, middle school and other experimental settings are explored. Classroom management and its relation to curriculum. Correlation of work in language arts, social studies, science, mathematics, health and physical education and fine and practical arts.

ELED 301 Practicum in Elementary Education

Students are assigned to work in an education center; in addition, they meet with the practicum coordinator weekly for evaluation and coordination. The practicum experience is correlated with certain methods courses and educational psychology. Prerequisite: ELED 300.

ELED 302 Consumer Behavior and Education

Examines the processes involved in consumer behavior. A three-part format is used: information, investigation and application. Methods and techniques of implementing consumer education are pursued through the development of strategies and plans which can be correlated with various grade levels and subject areas.

ELED 303 Crafts and Strategies in Elementary Mathematics

The techniques of conducting a laboratory-oriented elementary school mathematics program. Teachers are trained to identify and diagnose mathematic difficulties and to recognize problems normally encountered in the classroom. Emphasizes prescription: the teacher becomes a diagnostician who is constantly observing, testing and teaching.

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 Teaching Language Arts in the Elementary School

Acquaints students of elementary education, with the role of language and its development in the life of a child. Methods, techniques and materials used to develop the listening, speaking, writing and reading skills of children are critically examined. Attention is given to the effective uses of 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.

ELED 324 Teaching Mathematics in the Elementary School

Purposes, principles and fechniques 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.

ELED 325 Teaching Art in the Elementary School

Direct experiences in creative art activities, including objectives and philosophy of art education. The developmental stages of children in creative and mental growth are explored. 2 credits

ELED 326 Teaching Music in the Elementary School

The methods of teaching children music as presented by the various music series and an evaluation of materials most commonly used in public schools. 2 credits

ELED 327 Teaching Science in the Elementary School

How to help students develop their ability to introduce scientific facts, ideas, and methods of problem-solving in the classroom. Includes planning a science program for the elementary school, selecting and presenting information and ideas in the classroom, the selection of appropriate books, supplies, and equipment and the use of field trips. Work is related to field experiences.

2 credits

ELED 328 Teaching Social Studies in the Elementary School

The aims, methods, materials and organization of social studies instruction for the elementary school. Emphasis on interdisciplinary organizational patterns and inquiry methods of instruction. Work is related to field experiences. 2 credits

ELED 398 Simulated Laboratory Experiences in Elementary Schools

Designed to create a ficticious, but lifelike, school where prospective teachers encounter typical problems. The school is created through the use of filmstrips and films, cumulative record folders, a faculty handbook and other resource materials. Each student assumes the role of the teacher and is given an opportunity to face, study and solve carefully selected problems under the guidance of the instructor.

ELED 404 Seminar in Student Teaching

The latest trends and developments in elementary education are explored. Problems of classroom management are discussed. This course is conducted during the semester of the student-teaching experlence.

ELED 405 Seminar in Education

The study of teaching as the student experiences it. Designed to accompany the internship. A variety of curricula and organizational systems are explored.

ELED 499 Independent Study As approved and to be arranged. 1-3 credits

LMS 201 Introduction to Library/Media Services

Surveys the fields of librarianship and educational media. Concentrates on the joint provision of print and nonprint materials and equipment to teachers, students, and others. The history, philosophy and development of the emerging service patterns of library media agencies are explored with a critical examination of the roles of professional, paraprofessional and clerical staff. The types and organizational structures of library/media centers found in America, the kinds of materials collected and disseminated, the future of the profession and the opportunities for library media careers are some of the topics explored.

LMS 202 Information Sources

Examines and critically analyzes the philosophy and principles of providing information to library/media center clients in support of student and curricular needs. Reviews basic reference materials within the context of retrieving information to meet individual needs. Simulation of the reference interview situation, with a concentrated examination of the process of question-negotiation and individual information seeking behavior.

LMS 203 Media Selection for Children

Study of the basic aids, methods and criteria for selecting print and nonprint materials for children. Principles of evaluation for building and maintaining a collection in the school library/media center. Techniques and practice in the art of storytelling with emphasis on sources of materials and adaptations for story programs.

LMS 204 Bibliographic Techniques

Selects and evaluates intermediate and advanced reference sources used in subject fields. Analysis and preparation of selected bibliographics designed to assist students and teachers. Development of the reference information collection is discussed.

Prerequisite: LMS 202

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 pro-duction 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

Ofganization 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

4 credits

Department of Community, Early Childhood and Language Arts

Professors—J. Baines (chairman), J. Feeley, B. Grant, L. Hilton, M. Moreno, G. Vitalone Associate Professors—G. Brown, A. Caliandro, A. Coletta, W. Small, M. Turkish, W. Willis Assistant Professors—L. Aitken, V. Baldassano, M. Dougherty, J. Gallo, V. Grier, J. Mamone, W. Mason Instructor-A. Havriliak

The Department of Community, Early Childhood and Language Arts contains three units offering two undergraduate and two graduate degrees. The undergraduate degrees are a B.A. in early childhood education and a B.A. in urban education and community affairs. In addition, the reading and language arts component of the department offers an endorsement in reading.

Urban Education and Community Affairs

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

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

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

MAJOR REQUIREMENTS

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

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

| URED | 209 | Violence in the Com- | 3 |
|-------|-----|------------------------|---|
| | | munity | - |
| URED | 210 | Drug Use and Abuse | 3 |
| URED | 304 | Education of the Self | 3 |
| URED | 372 | Development and | 3 |
| | | Change in Education | |
| URĖD | 420 | Urban Issues: Other | 3 |
| | | Minorities | |
| URED | 480 | Ethnic Dance | 3 |
| URED | | Non-Partisan Political | 3 |
| UNLD. | 400 | Action | Ŭ |
| | | ACTION | |

CERTIFICATION REQUIREMENTS

Elementary Education: See p. 40. Early Childhood Education: See p. 44. Social Studies Education: See p. 37.

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 aroup 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 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 comunity 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 photo-graphing at least fifty percent of the examples within the urban areas. Specific times and locations are entered in the final report.

URED 482 The Inner City Child and His Environment

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

URED 483 Non-Partisan Political Action

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

URED 486 Contributions of Latin

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

URED 487 Science, Technology and the **Urban Society**

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

URED 499 Independent Study

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

Early Childhood Education

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

| | | - | |
|-------|-------|--|--------|
| MAJC | r rèq | UIREMENTS 36 cre | dits |
| EC | 100 | Practicum in Infant | 3 |
| EC | 201 | Programs Creative Art for Early Childhood | 3 |
| EC | 202 | Music and the Young Child | 3 |
| EC' | 210 | Infant Care Programs | 3 3 |
| EC | 220 | Reading and the Young Child | 3 |
| EC | 221 | The Young Child and | · 3 |
| EC | 320 | Language Arts Early Childhood Cur- riculum I | 6 |
| EC | 321 | Early. Childhood Cur- | 6 |
| EC | 351 | riculum II Mathematics in Early Childhood Education | 3 |
| EC | 365 | Workshop in Reading and Learning Problems of the Young Child | |
| DIREC | TED E | LECTIVES 15 cre | dits |
| PSY . | | Developmental Psy- | 3 |
| SPED | | chology Education of the Excep- tional Child* | .3 |
| | | redit course in history, in | |

science and in math.

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

CERTIFICATION REQUIREMENTS 30 credits

| CERIII | CAIN | SIN KLOUKLINEINIS OU CIEGU | 13 |
|--------------|------------|--|----------------------|
| EC ' | 405 | | .3 |
| | | Internship Seminar | ÷ |
| EDUC | 415 | | 1Ż |
| | | Internship | <u>^</u> |
| ELED | 310 | Educational Psychology: | 3 |
| | | Adaptations and Interventions in the | |
| | | Classroom | |
| HSC | 321 | Nutrition in Early | 3 |
| 1100 | 021 | Childhood | Ŭ |
| PSY | 110 | General Psychology | 3 |
| Plus c | one hu | iman relations course from th | ne |
| follow | | · · | |
| EC | 340 | Parent Involvement in | 3 |
| | | Early Childhood | |
| • | | Education | |
| URED | 482 | The Inner City Child | 3 |
| | • | and His Environment | |
| Plus | | ofessional preparation cours | ·. 2 |
| | | lowing: | |
| EC | 339 | The Art of Parenting | 3 |
| ĒČ | 340 | Parent Involvement in | 3 |
| | | Early Childhood | |
| • • | | Education | |
| EC | 365 | Bilingual Programs | 3 |
| LMS . | 323 | Modern Educational Media | <u>ວ</u> ວວ່າ ວ່າ |
| RLA | 325 | Children's Literature | 3. |
| THEA URED | 311 482 | Drama for Children The Inner City Child | 3 |
| URED | 402 | and His Environment | 0 |
| | | | |

Additional education electives are listed elsewhere in this catalog.

Courses

Unless otherwise noted, all courses are for 3 credits.

EC 201 Creative Art for Early Childhood

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

EC 202 Music and the Young Child

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

EC 210 Infant Care Programs

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

EC 220 Reading and the Young Child

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

EC 221 The Young Child and Language Arts

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

EC 320 Early Childhood Curriculum I

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

6 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. 6 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 implementating bilingual programs in a socio-cultural context.

EC 351 Mathematics in Early Childhood Education

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

EC 353 Drama for Children

Study of the importance of drama and play in a child's individual and social growth. The student designs and demonstrates program approaches using creative play and dramatic activities with young children.

EC 364 Workshop in Reading and Learning Problems of Young Children

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

EC 405 Early Childhood Internship Seminar

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

EC 499 Independent Study

As approved and to be arranged. 1-3 credits

Reading and Language Arts READING TEACHER 24 credits ENDORSEMENT PROGRAM

| Required Courses 12 credits | | | | |
|-----------------------------|-----|--|-----|--|
| RLA or | 323 | Teaching Reading | · 3 | |
| rla | 329 | Foundations of Reading | 3 | |
| RLA | 330 | Reading Strategies for the Content Areas | 3 | |
| RLA. and | 423 | Advanced Reading Techniques | 3 | |
| RLA or | 425 | Reading Practicum | 3 | |
| rla | 495 | Reading Improvement and Practicum | 6 | |
| | | | | |

| Electi | ves | 12 | creaits |
|--------|-----|--|---------|
| rla | 321 | Functional Writing for | 3 |
| | | Reading and Languag | je |
| | | Arts | |
| rla | 325 | Children's Literature | 3 |
| | | ourses in related areas o or tests and measurem | |

Education majors may find RLA 323, 325, 329, 330, 423, 425 and 495 particularly useful.

Courses

Unless otherwise noted, all courses are for 3 credits.

RLA/ENG 107 Basic 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 323 Teaching Reading

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

RLA 325 Children's Literature

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

RLA 329 Foundations of Reading

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

RLA 330 Reading Strategies for the Content Areas

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

RLA 423 Advanced Reading Techniques

Designed to help prospective teachers understand the elements of accountability involved in the teaching of reading through actual involvement in a developed case study. Prerequisite: RLA 323 or 329

RLA 425 Reading Practicum

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

RLA 495 Reading Improvement and Practicum

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

Prerequisite: RLA 323 or 329 or equivalent 6 credits

RLA 499 Independent Study

As approved and to be arranged. 1-3 credits

45

Department of Movement Sciences and Leisure Studies

Professor—T. Jable (chairman) Associate Professors—L. Fonken, S. Laubach, W. Myers, S. Silas, V. Overdorf Assistant Professors—S. Becker, L. Dye, P. Huber, A. Raidy, V. Igbanugo Assistant Professor Emeritus: M.J. Cheesman Instructors—F. Flaster, G. Ball

The Department of Movement Sciences and Leisure Studies offers a major program leading to the bachelor of arts degree in physical education, with the opportunity to specialize in adapted physical education, athletic training, elementary and secondary physical education, coaching and sports officiating, exercise physiology and dance. 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 liberal studies requirement and to fulfill recreational outlets. Extensive co-curricular programs in dance, intramurals and recreation are open to all undergraduates.

Assessments and Retention

Providing students with continued advisement and academic counseling is of major concern to the Department of Movement Sciences and Leisure Studies. The faculty is also concerned about standards of quality in its graduates.

The department maintains a performance standard by which students are reviewed for continuing eligibility as majors. Details of this performance standard are provided by department advisors to those who intend to major in physical education.

| MAJC | R REQ | UIREMENTS 32 cree | dits |
|------------------|-------|---------------------------|-------------|
| BIO [.] | 210 | Basic Anatomy and | 3 |
| | | Physiology I | |
| BIO | 211 | Basic Anatomy and | 3 |
| | | Physiology II | |
| PE | 170 | Introduction to Move- | 1 |
| • | | ment Sciences and | |
| | | Leisure Studies | |
| PE | 301 | Standard First Aid and | 2 |
| | | Personal Safety | |
| PE | 302 | Cardio-Pulmonary Re- | 1 |
| | | suscitation | |
| PE | 320 | History and Philosophy of | 3 |
| | | Sport and Physical | |
| | | Activity | |
| PE | 380 | Kinesiology | 3 3 3 |
| PE | 382 - | Physiology of Exercise | 3 |
| PE | 388 | Adapted Physical Educa- | `3 |
| | | tion | |
| PE | 411 | Concepts and Principles | 3 |
| | | of Motor Learning | |

| PE | 413 | Psycho-Social Dimensions | 4 |
|------------|--------|---|--------|
| PE | 470 | of Movement and Sport Tests and Measurements | 3 |
| , DUVEL | | ERFORMANCE 26 cre | مقالهم |
| SKILLS | | ERFORMANCE 26 cre | ans |
| | | x 2 | |
| Aqua PE | 229 | Swimming | 1 |
| Danc PE | 114 | Modern Dance | 2 |
| PE | 117 | Folk, Square and | 1 |
| | | Ballroom Dance | |
| Gymr | nastic | s and Conditioning | ° • |
| PE | 198 | Basic Conditioning | 1 |
| PE | 201 | Tumbling | 1 |
| PE | 255 | Apparatus | 2 |
| Team | Sport | S | |
| PE | 208 | Basketbali | 1 |
| PE | 210 | Football | 1 |
| PE | 211 | Softball | 1 |
| PE | 213 | Volleyball [`] | 1 |
| PE | 214 | Field Hockey | 1 |
| PE | 215 | Soccer | 1 |
| Indivi | dual d | and Dual Sports | • |
| PE | 200 | | 1 |
| PE | 206 | Track and Field | 1 |
| PE | 207 | Wrestling | 1 |
| PE | 216 | Fencing | 1 |
| PE | 221 | Archery | 1 |
| PE | 222 | Badminton | 1 |
| PE | 223 | Golf | 1 |
| PE | 230 | Recreational Games | 1 |
| PE | 232 | Racquetball | · 1 |
| PE | 239 | Bowling and Team | 1 |
| 05 | 0.40 | Handball | |
| PE | 240 | Jogging and Orien- | · 1 |
| PE | 265 | teering Self-Defense | 1 |
| | | - | • • |
| | | DUCATION 34 cre | dits |
| | | ON REQUIREMENTS* | |
| EDUC | : 415 | Senior Teaching In- | 12 |
| | | ternship | |
| PE | 383 | History, Philosophy and | 3 |
| | | Curricular Constructs in | |
| PE . | 384 | Physical Education | ר יי |
| PE | 304 | -Curriculum and Teaching I | - 5 |
| | - | in Secondary School (including Practicum) | |
| PE | 391 | Practicum I (Elementary | 1 |
| | 071 | School) | • • |
| PE | 404 | Seminar in Student | . 3 |
| | | Teaching | |
| PSY | 210 | Developmental Psy- | 3 |
| | | chology" | • |
| or | | · · · | · _ |
| ELED | 210 | Growth Processes of the | 3 |
| | 200 | School-Age Child | |
| RLA | 329 | Foundations of Reading | 3 |
| RLA . | 330 | Reading Strategies in the Content Areas | 3. |
| • | | Education Elective (Hu- | 3 |
| | • | man Relations) | v |
| In ad | dition | , a speech competency test | must |
| bepo | assed | or an appropriate speech co | ourse, |
| recor | nmeń | ided by a speech patholo | ogist, |
| | | mpleted. | |
| *PSY | 110 a | nd HSC 120 must also be c | om- |

*PSY 110 and HSC 120 must also be completed for certification, but may be applied to fulfill liberal studies requirements.

| | | CATION 24 crec DN ENDORSEMENT | lits _. |
|--------------|-----------------------|---|-------------------|
| | | ation program is for physic | à |
| | 1 | eaching majors only. | ~ |
| BIO BIO | 170 302 | Basic Microbiology Basic Genetics | 3 |
| HSC | 200 - | Consumer Health | 3 3 3 3 |
| HSC | 300 | Community Health | 3 |
| HSC | 320 | Nutrition | 3 |
| HSC | 351 | Methods and Curriculum in School and | . 3 |
| | | Community Health | 1. |
| | | Education . | |
| HSC. SOC | 490 120 | Human Sexuality Marriage and the Family | 3 |
| | 120 | Manage and meranny | 0 |
| Ada | pted | Physical Education | • |
| | • | l students) | • |
| MINC | or req | UIREMENTS 18 cred | tits |
| SPED | 201 | Psychology and Educa- | 3 [.] |
| | · · · · | tion of the Handicapped | |
| | | its selected from among the | |
| follow PE | ving: 393 | Physical Education for the | 3 |
| | | Orthopedically Handi- | Ū |
| | 004 | capped | · • |
| PE · | 394 | Physical Education for the Mentally Retarded | 3 |
| PE ' | 395 | Physical Education for | 3 |
| | | Persons with Perceptual | |
| • | • | Impairment and Social and Emotional Disability | |
| PE | 396 | Programs in Exercise and | · 3 |
| | | Recreation for Older Per- | • • |
| REC | 300 | sons Introduction to Thera- | 3 |
| NLC | 000 | peutic Recreation | U |
| SED | 432 | Human Adaptations and | 3 |
| Duana | | Alternatives | |
| BIO | quisite 210 | Basic Anatomy and Physi- | 3 |
| 5.0 | 2.0 | ologyl | |
| BIO | 211 | Basic Anatomy and Physi- | 3 |
| or | | ology II | |
| BIO | 214 | Applied Anatomy and | 3 |
| PE | 201 | Physiology Standard First Aid and | 2 |
| FC , | 301 | Standard First Aid and , Personal Safety , | 2 |
| PE , | 302 | Cardio-Pulmonary Re- | - 1 |
| PE | 388 | suscitation Adapted Physical Educa- | 3 |
| 16 | 000 | tion | Ŭ |
| PE | 411 | Concepts and Principles | 3. |
| | | of Motor Learning | |
| | | ATION FOR 12 cree SCIENCE MAJORS | dits |
| | | | |
| | 201 | Psychology and Educa- | 3 |
| | | tion of the Handicapped | |
| Elect | | oradite of allocthics | 9 |
| 26160 | u nine | credits of electives | Y |
| | • | · · · · | |
| | • 、 | • | • • |
| • | | | |

THE SCHOOL OF EDUCATION

Athletic Trainina*

| MINO | MINOR REQUIREMENTS† 23 credits | | | | | | |
|-------|--------------------------------|---|------------------|--|--|--|--|
| HSC | ´320 | Nutrition | . 3 | | | | |
| PE | 381 | Prevention and Care of | 3 | | | | |
| | | Athletic Injuries | • | | | | |
| PE | 393 | Physical Education for the | 3 ่ | | | | |
| | • | Orthopedically Handi- | | | | | |
| | | capped | | | | | |
| PE | 397 | Athletic Training In- | 2 | | | | |
| | | ternship I | | | | | |
| PE | 398 | Athletic Training In- | 2 | | | | |
| | | ternship II | | | | | |
| PΕ· | 415 | Advanced Athletic Train- | . 3 | | | | |
| | | ing | | | | | |
| PE | . 497 | Afhletic Training In- | 2 | | | | |
| | | ternship III | | | | | |
| PE | ' 498 | Athletic Training In- | 2 | | | | |
| | | ternship IV . | | | | | |
| PE | 301 | Standard First Aid and | 2 | | | | |
| | | Personal Safety | | | | | |
| PE | 302 | Cardio-Pulmonary Re- | . 1 | | | | |
| | | suscitation | | | | | |
| Prere | quisite | es estate est | , | | | | |
| BIO | 210 | Basic Anatomy and Physi- | 3. | | | | |
| | . • | ology I | | | | | |
| BIO | 211 | Basic Anatomy and Physi- | 3 | | | | |
| | | ology II | | | | | |
| HSC | 120 | Current Health Issues | 3 3 3 3 | | | | |
| PE | 380 | Kinesiology | 3 | | | | |
| PE | 382 | Physiology of Exercise | 3 | | | | |
| PE | 388 | Adapted Physical Educa- | 3 | | | | |
| | | tion | | | | | |
| *** | | thistic trainer in a bublic ach | | | | | |

*To be an athletic trainer in a public school in New Jersey, teacher certification is required. Students with teacher certification in areas other than physical education must complete the requirements as indicated above.

†The athletic training minor is accredited by the National Athletic Trainers Association.

Dance (Open to all students)

| MINOR REQUIREMENTS 19 credits | | | | | | |
|-------------------------------|-----|--|---|--|--|--|
| *PE | 131 | Modern Dancè I 2 | 2 | | | |
| *PE | 132 | Modern Dance II (pre- 2 requisite Modern I) | | | | |
| *PE | 134 | Ballet 2 | 2 | | | |
| *PE | 135 | Ballet I 22 Ballet II (prerequisite 22 Ballet I) | 2 | | | |
| *PE | 275 | History of Dance 3 Choreography (pre- 3 | 5 | | | |
| PE | 373 | Choreography (pre- requisite 2 semesters of modern dance and/or ballet) | • | | | |
| PE | 376 | Dance Performance 2 Workshop I (registration by audition only) | 2 | | | |
| PE | 473 | Labanotation (pre- requisite Ballet II and Modern II) | } | | | |
| | | | | | | |

*Fulfills the liberal studies requirement.

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 from the list below. THEA 320 and 340 may be credited toward the program.

| | ELECTIVES 22 credits | | | | |
|---------------------------------------|----------------------|--------------------------|--------|--|--|
| †PE | 117 | Folk, Square and | 1 | | |
| ILE | 117 | Ballroom Dance I | 1 | | |
| PE | 118 | | 1 | | |
| PE | 110 | Folk, Square and | 1 | | |
| 55 | 047 | Ballroom Dance II | • | | |
| PE | 217 | Modern Jazz Dance | 2 | | |
| | | Technique (prerequisite | | | |
| | | Modern I or Ballet I) | | | |
| PE | 218 | Tap Dance | 2 2 | | |
| †PE | 271 | Teaching Dance (prere- | 2 | | |
| | | quisite 2 semesters of | | | |
| | | technique in Ballet, | | | |
| | | Modern or Jazz) | | | |
| PE | 370 | Folk and Square Dance | 2 | | |
| | | Leadership (prerequisite | | | |
| | | Folk, Square I, II) | | | |
| PE | 375 | Advanced Choreo- | 3 | | |
| . – | | graphy (prerequisite | • | | |
| | | Choreography I) | | | |
| PE | 275 | History of Dance | 3 | | |
| PE | 377 | Dance Performance | 3 3 | | |
| ΓL | 5// | Workshop II | 5 | | |
| | 0010 | Ethnic Dance | 3 | | |
| UKE | D480 | | 3 | | |
| †Movement science majors must take PE | | | | | |

†Movement science majors may 117 and PE 271 in place of PE 113.

Exercise Physiology

. (Open to all students)

| MINC | DR REG | UIREMENTS 24 cre | dits |
|-----------|--------------|---|-------------|
| BUS | 201 | Introduction to Man- | 3 |
| | 000 | agement | , , , |
| HSC PE | 320 301 | Nutrition Standard First Aid and | 3` 2 |
| L. | 501 | Personal Safety | 2 |
| PE ` | 302 | Cardio-Pulmonary Re- | 1 |
| | | suscitation | • |
| PE | 383 | Curriculum and Teaching Physical Education in | 3 |
| | | Elementary School | |
| PE . | 481 | Leadership Training for Ex- | 3 |
| | | ercise Programs | |
| PE | 483 | Graded Exercise Testing | 3 |
| PF | 484 | and Prescription Exercise Testing and Pre- | 1 |
| PE | 404 | scription Internship I | 1 |
| PSY | 410 | Psychological Counsel- | 3 |
| | | ing | |
| | | Field Experiences or Co- | 2 |
| | •• , | operative Education | - 1 |
| Note | : Upo den | n completing this minor, ts are eligible to take | |
| | certi | fication test given by the YN | ЛСА |
| | or th | ne American College of Sp | ports |
| | Mec | licine. | , , |
| | quisite | | |
| BIO | 210 | Basic Anatomy and Physi- | 3 |
| BIO | 211 | ology I Basic Anatomy and Physi- | 3 |
| DIO | 211 | ology II | Ŭ |
| PE. | 411 | Concepts and Principles | 3 |
| 05 | | of Motor Learning | <u>,</u> |
| PE | 470 | Tests and Measurements in Physical Education | 3 |
| | | In Thysical Eadeanon | |
| | · | | |

CONCENTRATION FOR 16 credits MOVEMENT SCIENCE MAJORS

| BUS | 201 | Introduction to Man- | - 3 |
|-----|-----|---|-----|
| | • | agement | |
| HSC | 320 | Nutrition | . 3 |
| PE | 481 | Leadership Training for Ex- ercise Programs | •3 |
| PE | 483 | Graded Exercise, Testing and Prescription | 3 |
| PE | 484 | Exercise Testing and Pre- scription Internship I | 1 |
| PSY | 410 | Psychological Counsel- ing | 3 |
| | | · · · | |

Recreation and Leisure Studies (Open to all students)

| (Oper | n to all | students) | |
|--------------|----------|---|--------------|
| MÍNO | r reqi | UIREMENTS 24 credit | |
| PE | 396 | Programs in Exercise and Recreation for Older Per- sons | 3 |
| REC | 110 | Foundations and Pro- | 3 |
| REC | 290 . | grams in Recreation Camp Counseling | 3, |
| REC | 291 | Recreational Leadership | 3, 3 3 |
| REC | 300 | Introduction to Thera- : peutic Recreation | 3 |
| REC | 390 | Field Work in Recreation | 3 |
| REC | 400 | Organization and Admin- istration of Recreation | 3 |
| | | Programs | |
| REC | 482 | Leisure Crafts and Ac- tivities in Recreation | 3 |
| Prerec | quisite | • | ; |
| PE | 230 | Recreational Games | 1 |
| PE | 301 | Standard First Aid and | 2 |
| PE | 302 | Personal Safety Cardio-Pulmonary Re- | 1 |
| . – | • | suscitation | |
| | | redits from two of the followir | |
| | | atics, dance, individual spor | ts, 3 |
| | sports | | 5 |
| BUS | 201 | ommended: Introduction to Man- | 3 |
| | | agement | 0 |
| BUS | 310 | Marketing . | 3 |
| Cor dents | | trations (Open to all stu- | , |
| | | ND RECREATIONAL 15 cred OR OLDER PERSONS | |
| HSC | 370 | Introduction to Gerontology | 3 |
| PĘ | 396 | Programs in Exercise and | 3 |
| | | Recreation for Older Persons | |
| PSY | 330 | Psychology of Aging | 3 |
| REC | 300 | Introduction to | 3 |
| SOC | 392 | Therapeutic Recreaton Sociology of Aging | 3 |
| | quisite | | - |
| BIO | 210 | Anatomy and | 3 |
| · BIO | 211 | Physiology Anatomy and | 3 |
| | | Physiology II | - |
| BIO | 214 | Applied Anatomy and Physiology | 3 |
| PE | 382 | Physiology of Exercise | 3 3 |
| PE | 388 | Adapted Physical Educa- | 3 |

tion

47

| COA | CHING | 12-14 cred | its |
|--------------|-----------------------|--|------------------|
| PE | 381 | Prevention and Care of | 3 |
| PE | 400 | Athletic Injuries Organization and Admin- | 3 |
| | 0 | istration of Athletics | |
| Plus č PE | -8 creo 216 | dits from among the following Fencing | |
| PE | 243 | Lacrosse (Women) | 2 2 |
| or | | | |
| PE | 252 | Lacrosse (Men) | 2 2 |
| PE | 327 | Coaching and Officiat- ing Swimming | Z |
| PE | 337 | Coaching and Officiat- | 2 |
| | | ing Wrestling | |
| PE | 344 | Coaching and Officiat- | 2 |
| PE. | 345 | ing Soccer Coaching and Officiat- | 2 |
| | 0 4 0 | ing Field Hockey | 2 |
| PE | 346 | Coaching and Officiat- | 2 |
| PF | 349 | ing Basketball | 0 |
| PE | 349 | Coaching and Officiat- ing Football | 2 |
| PE | 351 | Coaching and Officiat- | 2 |
| | | ing Baseball (Softball) | _ |
| PE | 353 | Coaching and Officiat- | 2 |
| PE ' | 361 | ing Volleyball Coaching and Officiat- | 2 |
| 16 | 001 | ing Gymnastics (Women) | 2 |
| or | | | |
| PE | 362 | Coaching and Officiat- | 3 |
| | | ing Gymnastics (Men) | |
| BIO | quisite 210 | Basic Anatomy and Physi- | 3 |
| | 210 | ology I | 0 |
| BIO | 211 | Basic Anatomy and Physi- | 3 |
| | 044 | ology II | 0. |
| BIO | 214 | Applied Anatomy and Physiology | 3 [.] |
| PE | 301 | Standard First Aid and | 2 |
| | | Personal Safety | _ |
| PE | 302 | Cardio-Pulmonary Re- suscitation | 1 |
| PE | 380 | Kinesiology | 3 |
| PE | 382 | Physiology of Exercise | 3 3 |
| PE | 411 | Concepts and Principles | 3 |
| | 440 | of Motor Learning | 4 |
| PE | 413 | Psycho-Social Dimensions of Sport | 4 |
| | | | |
| AQU | ATICS | 12 crec | dits |
| Requ | ired C | courses 6 crea | |
| PE | 234 | Water Safety Instruction | 2 |
| PE | 236 | Administering and Con- ducting Recreational | 2 |
| | | Water Activities and Pro- | |
| | | grams | |
| PE | 237 | Pool Management | 2 |
| Direc | ted Ele | ectives 6 cred | dits |
| Selec | t 6 cre | dits from the following: | |
| PE | 125 | Basic Skin and Scuba | 2 |
| DE | 207 | Diving | 1 |
| PE PE | 227 228 | Diving Synchronized Swimming | |
| PE | 233 | Advanced Life Saving | 2 |
| PE | 235 | Small Craft Certification | 1 2 2 1 |
| PE | 326 | Aquatics for Special Pop- ulations | 1 |
| DE | 307 | Coaching and Officiat | 2 |

PE 327 Coaching and Officiating Swimming

| | | must receive a rating in | -6 credits g in three | |
|---|-------|--------------------------|---|---|
| | PE | 216 | ving sports: Fencing | 1 |
| | PE | 243 | Lacrosse (Women) | 2 |
| | or | • | | |
| | PE | 252 | Lacrosse (Men) | 2 |
| | PE | 327 | Swimming and Diving | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| | PE | 337 | Wrestling | 2 |
| | PE | 344 | Soccer | 2 |
| ٠ | PE | 345 | | 2 |
| | PE | 346 | Basketball | 2 |
| | PE | | Football | 2 |
| | PE | 351 | Softball or Baseball | 2 |
| | PE | 353 | Volleyball | 2 |
| | PE | 361 | Gymnastics (Women) | 2 |
| | PE | 362 | Gymnastics (Men) | 2 |
| | Recor | mmen | ded Courses | |
| | PE | 301 | Standard First Aid and Personal Safety | 2 |
| | PE | 302 | Cardio-Pulmonary Resuscitation | 1 |
| | • | | • • | |

Courses

| Unless otherwise noted, all courses are for 3 |
|---|
| credits. |

Movement Sciences

The following courses are open to all students.

| GOIL | | · · · · · · | |
|------|-----|--------------------------|---|
| PE | 100 | Target Archery | 2 2 |
| PE | 101 | Introduction to Bad- | 2 |
| | | minton | |
| PE | 102 | Bowling | 2 |
| PE | 103 | Golf | 2 |
| PE | 104 | Tennis I | 2 |
| PE | 105 | Tennis II | 2 2 2 2 2 2 2 2 2 |
| PE | 106 | Introduction to Fencing | 2 |
| PE | 107 | Tumbling and Gym- | 2 |
| | | nastics | |
| PE | 108 | Volleyball- | 2 |
| PE | 109 | .Combatives | 2 |
| PE | 110 | Karate | 2 |
| PE | 111 | Judo [.] | 2 |
| PE | 116 | Afro-Caribbean Dance | 2 2 2 2 2 1 |
| PE | 117 | Folk, Square and | 1 |
| | | Ballroom Dance I | |
| PE | 118 | Folk, Square and ` | 1 |
| | | Ballroom Dance II | |
| PE | 119 | Basic Movement | 2 |
| PE | 120 | Personal Fitness | 2 |
| PE | 121 | Horseback Riding | 2 |
| PE | 122 | Orienteering | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| PE | 123 | Backpacking | 2 |
| PE | 124 | Cycling | 2 |
| PE | 125 | Basic Skin and Scuba | 2 |
| | | Diving | |
| PE | 126 | Introduction to Racquet- | 2 |
| | | ball | |
| | | | |

PE 130 Introduction to the Art of Dance

Elementary technique, improvisation, studies in composition, lectures, films and discussions on dance theory, philosophy and current trends of dance. Provides a basic background with which to appreciate dance as an audience. Geared for students without previous dance experience.

PE 131 Modern Dance I

2

An introductory course in contemporary dance. Emphasis on developing the student's appreciation of the art of dance through experiential understanding of the movement principles of the Humphrey-Weidman-Limon School of modern dance. 2 credits

PE 132 Modern Dance II

Continuation of the study of Humphrey-Weidman-Limon based modern dance. Relates its principles to teaching, performing, recreation, therapy or life experience. 2 credits

PE 134 Ballet I

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

PE 135 Ballet II

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

PE 150 Personal Implications of Exercise, Fitness and Rest

A study of the general nature and structure of exercise and fitness as it pertains to the individual. The purpose of this course is to assist the individual in gaining an understanding of the effects of exercise, sports and physical activity on the physical and psychological self. Emphasis is placed on the physiological, sociological and biological development of the individual student through planning a personal program.

PE 170 Introduction to Movement Sciences and Leisure Studies

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

1 credit

PE 198 Basic Conditioning

Students learn about and experience conditioning programs for fitness and/or various sports activities. Students work with the professor to design a program suitable for individual needs. 1 credit.

PE 200 Beginning Tennis

Students are introduced to the basic skills of tennis which enable them to play a limited game. 1 credit

THE SCHOOL OF EDUCATION

PE 201 Tumbling

This course provides a solid foundation for all gymnastic related skills. It nurtures balance and kinesthetic awareness in the student through the medium of gymnastics. The course provides a coeducational activity suitable for students from elementary school through college. Singles, doubles, group tumbling and balancing, and the use of the springboard and trampoline are utilized for this purpose.

PE 204 Elementary Swimming

This course equips the individual with basic water safety skills and knowledge in order to make one reasonably safe while in, on or about the water. 2 credits.

PE 205 Intermediate Swimming

The development of a wide variety of skills and knowledge in and around water. All strokes are covered in addition to the elementary forms of lifesaving. 2 credits

PE 206 Track and Field

Develops skills and knowledge relating to track and field athletics. Improves athletic skills and evaluates personal abilities and progress. 1 credit

PE 207 Wrestling Basic knowledge of various takedowns and offensive and defensive moves. The history of wrestling is discussed as are various exercises, equipment and rules. 1 credit

PE 208 Basketball

Development of the basic fundamentals and skills of the game of basketball. 1 credit

PE 210 Football

Provides future teachers with knowledge and experience in touch and flag football and the basic fundamentals of football as they relate to instructional programs. 1 credit

PE 211 Softball

Develops proficiency in softball skills and a working knowledge of the rules and strategies of the game. 1 credit

PE 212 Baseball

Basic fundamentals of throwing, hitting, running and catching are learned, as well as player responsibilities for each position. 1 credit

PE 213 Volleyball

Designed for students with little or no experience with the game. Fundamental skills, strategy and rules are stressed. 1 credit

PE 214 Field Hockey

An introduction to the basic skills of field hockey which enables students to play the game with reasonable success. 1 credit

PE 215 Soccer

Elementary skills, strategies and rules of soccer are learned by the student. 1 credit

PE 216 Fencing

An introduction to skills and techniques of foil fencing. 1 credit

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PE 217 Modern Jazz Dance Technique Theory and performance of modern jazz dance technique. 2 credits

PE 218 Beginning Tap Dance

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

PE 221 Archery

Development of skill in target archery and a survey of other popular forms of archery. 1 credit

PE 222 Badminton

Development of skill in badminton, including basic strokes and playing strategy. 1 credit

PE 223 Golf

The development of grip, stance, swing and putting. Elementary game strategy is experienced. Lab fee required. 1 credit

PE 229 Swimming

The basic water safety skills and knowledge required to make one reasonably safe while in, on or about the water. 1 credit

PE 230 Recreational Games

Development of performance proficiency in bowling. Recreational games include such activities as shuffleboard, quoits, horseshoes, table tennis, frisbee, non-competitive and "new games." Lab fee required. 1 credit

PE 232 Racquetball

Fundamental skills, strategies and rules. 1 credit

PE 233 Advanced Lifesaving

Techniques of rescuing individuals from the water. Instruction in self-rescue and the use of equipment. Advanced lifesaving certificates are awarded upon successful completion of criteria established by American Red Cross.

Prerequisite: PE 204 or permission of the instructor 2 credits

PE 234 Water Safety Instructor

The instruction of advanced lifesaving and the nine strokes of swimming. Emphasis is placed on the student's being able to instruct other students in the class. All phases of swimming instruction are covered. Water Safety Instructor Certificate is awarded upon successful completion of criteria established by the American Red Cross.

Prerequisite: PE 233 2 credits

PE 236 Administering and Conducting Recreational Water Activities and Programs

A study of the various recreational activities conducted at pools, lakes and shore areas. The individual gains an understanding of the water and the types of programs best suited to each environment. 2 credits

PE 237 Pool Management

A study of the general principles of pool management. Emphasis on the technical aspects of pool equipment and machinery as well as organizational procedures for directing the pool. 2 credits

PE 238 Speedball

The skills, strategies and rules of speedball are emphasized in this introductory course. 1 credit

PE 239 Bowling and Team Handball

Develops performance proficiency in bowling and introduces skills in team handball. Lab fee required. 1 credit

PE 240 Jogging and Orienteering

An introduction to orienteering skills. Participation in orienteering and jogging. Exercise principles and the mechanics of running are presented. 1 credit

PE 243 Lacrosse (Women)

Introduction to the basic skills, teaching techniques and development of rules and strategies in women's lacrosse. Although the course is taught according to women's strategies and rules, it is also open to men. 2 credits

PE 252 Lacrosse (Men)

Introduction to the basic skills, teaching techniques and development of rules and strategies in lacrosse. Although the course is taught according to men's rules and strategies, it is open to women. 2 credits

PE 255 Apparatus

The concepts of beginning to advanced gymnastics skills for both men and women, the safety and operation of all gymnastics equipment, progressions for all skills performed on the apparatus and creative utilization of the apparatus. 2 credits

PE-265 Self-Defense

Exposes students to specific situations that could lead to danger and teaches them strategies for eliminating, recognizing and avoiding dangerous situations. 1 credit

PE 271 Teaching Dance

Prepares students to teach dance classes in schools and in recreational organiza-tions. Deals with the "how" and "why" of dance movement.

Prerequisite: PE 131 or 134 or permission of the instructor

PE 275 History of Dance

A survey course on dance as part of world history from pre-Christian civilization to contemporary events. Studies from the early fifteenth century (when dance manuals first appeared) are emphasized. Participation in Renaissance and Baroque period dances. Readers of Labanotation may use the language of dance as a research method.

PE 301 Standard First Aid and Personal 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

PE 302 Cardio-Pulmonary Resuscitation

The correct techniques of external chest compression and mouth-to-mouth resuscitation. Recognition of early warning signs, risk factors and symptoms. Students who successfully pass the course, after being evaluated by an authorized CPR instructor, will receive certification through the American National Red Cross. 1 credit

PE 310 Health and Physical Education **Programs in the Elementary School**

Focuses on the objectives and philosophy of health and physical education programs in today's elementary schools. Student lesson plans are required. Participation by students in a spectrum of physical education activities. Required for elementary education majors

PE 311 Movement Education

A different approach toward teaching where a more individualized program is set up within the larger group (class). Each student becomes aware of the basic movements of the body in relation to time, space and force around his own rate according to ability level. 2 credits

PE 320 History and Philosophy of Sport and Physical Activity

The study of physical activity and sport from pre-literate times to the present day. Emphasis on nineteenth and twentieth century sports and physical education.

PE 327 Coaching and Officiating Swimming

Fundamentals of aquatic activities through analyzing strokes and teaching procedures; planning and officiating swimming meets; and organizing and administering an aquatic program.

Prerequisite: PE 226 or permission of the instructor 2 credits

PE 328 Coaching and Officiating Track and Field

Techniques and methods of coaching and officiating. Track and field events are emphasized. Laboratory experiences in officiating and coaching are afforded the student. Evaluation of facilities and equipment is included.

Prerequisite: PE 225 or permission of the instructor 2 credits

PE 333 Coaching and Officiating Tennis

Designed to make students knowledgeable about the process involved in selecting and coaching a tennis team. In addition, the techniques necessary to become a rated tennis official are included. Prerequisite: PE 200 or permission of the instructor 2 credits ·

PE 337 Coaching and Officiating Wrestling

Designed to prepare wrestling officials for certification through the classroom and practical application. The areas of team coaching, officiating, recruiting and meet organization are also included.

Prerequisite: PE 207 or permission of the instructor 2 credits

PE 343 Coaching and Officiating Softball Techniques and principles of coaching and officiating softball are emphasized along with laboratory experience for officiating and coaching.

Prerequisite: PE 211 or permission of the instructor 2 credits

PE 344 Coaching and Officiating Soccer Techniques and principles of coaching and officiating soccer. Laboratory experiences are provided for officiating and coaching. Prerequisite: PE 215 or permission of the

instructor 2 credits

PE 345 Coaching and Officiating **Field Hockey**

Techniques and principles of coaching and officiating field hockey are stressed. Laboratory experiences are provided for officiating and coaching.

Prerequisite: PE 214 or permission of the instructor 2 credits

PE 346 Coaching and Officiating Basketball

Fundamental and advanced skills as well as theories of offense and defense are learned by the student. Techniques of officiating and organizing and administering a basketball team in a high school program are stressed.

Prerequisite: PE 208 or permission of the instructor

2 credits

PE 349 Coaching and Officiating Football Prepares students for coaching football in

high schools. Fundamentals, strategy of offensive and defensive play, purchase and care of equipment and other administrative problems are emphasized. Prerequisite: PE 210 or permission of the instructor

2 credits

PE 351 Coaching and Officiating Baseball Techniques of coaching, officiating, purchase and care of equipment and playing areas are emphasized. Prerequisite: PE 212 or permission of the instructor 2 credits

PE 353 Coaching and Officiating Volleyball

Advanced offensive and defensive team strategies, rules and officiating. Includes laboratory experiences in coaching and. officiating. The student is also exposed to various teaching and evaluating techniques.

Prerequisite: PE 213 or permission of the instructor

2 credits

PE 360 Olympic and Rhythmic Gymnastics Advanced skills culminating in the creation of individual routines in competitive events. Prerequisites: One semester ballet, tumbling and apparatus or permission of the instructor

PE 361 Coaching and Officiating Gymnastics (Women)

Intended for the future coach and/or judge in women's gymnastics. Film analyses and judging tests are offered. Although this course deals specifically with women's rules and events, it is also open to men.

Prerequisite: PE 255 or permission of the instructor 2 credits

PE 362 Coaching and Officiating Gymnastics (Men)

Intended for the future coach and/or judge in men's gymnastics. Film analyses and judging tests are offered. Although this course deals specifically with men's rules and events, it is also open to women. Prerequisite: PE 255 or permission of the instructor 2 credits

PE 370 Folk and Square Dance Leadership

Advanced skills, including calling square dances, teaching folk dances and organizing programs for folk and square dance events.

Prerequisite: PE 117 2 credits

PE 373 Choreography

Dance composition on a beginning level for teachers, recreation leaders and performers.

Prerequisite: Four credits in modern dance and/or ballet

PE 375 Advanced Choreography and Dance Production

Choreography on an advanced level. Study of production techniques for dance. Field experience choreographing and producing a dance concert. Prerequisite: PE 373

PE 376 Dance Performance Workshop I

Performance on an intermediate/ advanced technical level and choreography in a workshop situation. Emphasizes field experience performing, choreographing and producing a dance concert for educational purposes.

Prerequisite: Registration by audition only. 2 credits

PE 377 Dance Performance Workshop II A continuation of Dance Performance Workshop I. The student takes a role of creative leadership in choreography and production. 2 credits

PE 380 Kinesiology

An analysis of human motion: articulation of the various body joints, functions of muscles. Analysis of physical education activities from these perspectives. Prerequisites: BIO 210 and 211

PE 381 Prevention and Care of Athletic Injuries

Lecture and laboratory work concerned with the prevention and care of common athletic injuries: preventing sprains, strains, bruises, friction burns and blisters. Other first aid methods such as artificial respiration, hemorrhage, fracture, unconsciousness are also covered. The responsibilities and legal limitations of treatment are emphasized. Prerequisites: BIO 210-211, PE 380

PE 382 Physiology of Exercise

The body's physiological response to exercise with consideration to age, sex, physical fitness and environmental stresses. The laboratory provides experiences that replicate theoretical constructs. Prerequisites: BIO 210-211, PE 380.

PE 383 History, Philosophy and Curricular Constructs in Physical Education

The principles of curriculum development in elementary school physical education programs. Students learn to teach physical education activities designed for elementary school children. Taken concurrently with PE 391.

PE 384 Curriculum and Teaching Physical Education in the Secondary School

The physical-education teacher's role in facilitating the adolescent student's growth and development through movement activities. A variety of teaching styles are explored. Includes administrative duties and responsibilities of a physical-education teacher at the secondary level. A field experience in the secondary school accompanies this course.

PE 385 Organization and Administration of Intra and Extramural Programs

Concentrates on the organization of tournaments, student leadership, budget and scheduling of co-curricular events. Examines current recommendations and rules governing the amount, type and intensity, of competition for different age groups and sexes. Practical experience is gained through organizing and administering tournaments and special events. 1 credit

PE 386 Rhythmic Activities and Games for Children

Activities and approaches to creative movement and basic rhythmic experiences. Games, relays and related group activities appropriate for children's developmental needs are covered. 2 credits

PE 388 Adapted Physical Education

A general study and application of adaptive techniques and procedures for handicapped children in physical education. A practicum is taken concurrently with this course.

Prerequisites: BIO 210, 211

PE 391 Practicum I

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.

PE 392 Practicum II

This experience in the school is correlated with methods of teaching physical education and human movement. Primarily devoted* to teaching classes and small groups. Prerequisite: PE 391

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1 credit

PE 393 Physical Education for the Orthopedically Handicapped

Familiarizes prospective teachers with various types of physical handicaps. Exercises, games and activities for the correction or treatment of specific disabilities. A 15 to 20hour practicum is involved. Prerequisite: PE 388

PE 394 Physical Education for the Mentally Retarded

Identifies cause and nature of mental retardation. Practice in implementing group and individual physical-education programs for the mentally retarded child. Practicum required. Prerequisite: PE 388

PE 395 Physical Education for the

Perceptually Impaired and/or Emotionally Disturbed

Identifies nature and cause of impairment. Practice in implementing physical education programs for impaired persons. Practicum required. Prerequisite: PE 388

PE 396 Programs in Exercise and Recreation for Older Persons

Prepares students to plan and conduct basic physical activity and exercise programs for the elderly. Although the emphasis is on exercise routines and fitness programs, students also learn to lead older adults in rhythmic and dance activities and recreational games. A three-week training period is followed by a twelveweek practical experience at a senior citizen site (nutrition site, day care center or some other senior citizen center). Weekly seminars are held in conjunction with the practical experiences.

PE 397 Athlefic Training Internship I

Practical experience in the athletic training room under the supervision of a qualified athletic trainer. Student learns various techniques of treatment and taping, plus the use of basic modalities with whirlpool, infrared lamp and hydro-collator. A minimum of 200 hours is required. Prerequisite: PE 381 with a grade of "A" or "B"

2 credits

PE 398, Athletic Training Internship II

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.

PE 400 Organization and Administration of Athletics

Constructed as a coordinator of all courses dealing with the program of athletics. Emphasis on the organization of the program and its administration in relation to all personnel involved.

PE 404 Seminar in Student Teaching

Current trends and development in public education are explored. Particular attention is given to classroom management and other problems which confront student teachers. The course is conducted during the semester of the student-teaching experience.

PE 411 Concepts and Principles of Motor Learning

Acquaints the student with the concepts and principles involved in motor learning with particular consideration of the implications for teaching.

Prerequisites: BIO 210, 211

PE 413 Psycho-Social Dimensions of Sport

A study of sport in relation to the concepts, theories and principles of psychology and sociology. Enables the student to understand the human organism's involvement in sport and physical activity and the relationship of sport to culture and society. Prerequisites: PSY 110, SOC 110 4 credits

PE 415 Advanced Athletic Training

Lecture and laboratory experiences concerned with care and prevention of athletic injuries using advanced techniques of treatment and rehabilitation. Includes professional ethics, measurement and evaluation, current research, advanced exercise and advanced taping techniques. Prerequisities: PE 381, 393, HSC 320

PE 470 Tests and Measurements

A study of the role of and evaluation in physical education. The organization and administration of a testing program. Also, appropriate statistical methods used in a testing program.

PE 473 Labanotation

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

Prerequisites: PE 132, 135

PE 474 Laban Movement Analysis

Analysis and application of Laban effortshape theory through movement, experience and observation.

PE 480 Senior Seminar

An elective course for senior majors. Specialized subjects in physical education and recreation are developed by the instructor and the student.

PE 481 Leadership Training in Exercise Programs

Students learn to organize, lead and supervise programs of physical exercise and conditioning in industry, business, recreation, education and athletic settings. Also, how to use results of diagnostic tests to prescribe appropriate activities for a wide variety of populations.

PE 482 Advanced Exercise Physiology

Advanced concepts concerning the physiological adaptations of man and animals to exercise. With these concepts established, the student then explores the more controversial issues of exercise physiology.

PE 483 Exercise Stress Testing and Prescription

Theoretical information about the administration and application of a graded exercise stress test. 1 credit

PE 484 Exercise Testing and Prescription Internship I

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

PE 485 Exercise Testing and Prescription Internship II

A second-level experience in which students obtain practical information about the administration and application of a graded exercise stress test and an exercise prescription. 1 credit

PE 486 Exercise Testing and Prescription Internship III

A third-level experience in which students obtain practical information about the administration and application of a graded exercise stress test and an exercise prescription. 1 credit

PE 497 Athletic Training Internship III

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. 2 credits

PE 498 Athletic Training Internship IV

Culminating practicum. The student serves as an athletic trainer in a designated local high school in cooperation with the local and college supervisor. Minimum of 200 hours.

Prerequisite: PE 497 2 credits

PE 499 Independent Study

As approved and to be arranged. 1-3 credits

Leisure Studies

REC 110 Foundations in Leisure Studies A study of the nature, scope, history and philosophy of recreation: its meanings, the services rendered in various settings, the ' relationship to allied disciplines and its scientific foundations.

REC 290 Camp Counseling

A study of the nature and duties of counseling in private, municipal and organizational camps. Techniques of group work and the planning, organizing and executing of programs are included.

REC 291 Recreational Leadership

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

REC 292 Programs in Recreation

The study of public, voluntary and private recreation programs sponsored by governments, education, industry and other organizations. Considerations are given to administration, financial support, facilities and leadership.

REC 300 Introduction to Therapeutic Recreation

Provides an in-depth study of therapeutic recreation for the ill and handicapped in various settings. Emphasis on the role of recreation as a means of therapy in rehabilitation in these settings. Internship experience is undertaken.

REC 305 Community Recreation

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

REC 306 Recreation Facilities and Management

A study of the design and management of facilities and areas for leisure enjoyment, including use of existing facilities, feasibility studies, site selection, principles of planning, construction and maintenance procedures.

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THE SCHOOL OF EDUCATION

REC 307 Social Recreation

Stresses the acquiring of knowledge and understanding of various social recreation programs and activities.

REC 310 Recreation for the Aging

A study of the characteristics and needs of the aging and how recreation programs can best meet these needs. Internship experience provided.

REC 390 Field Work in Recreation

An internship for the student to observe techniques of and practice in a recreational setting. The student is assigned to a recreation program.

REC 400 Organization and Administration of Recreation

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

REC 481 Recreation for Adults

A study of characteristics and needs of older persons and how recreation programs can best meet those needs. Research and practical experience in working with older citizens in a community is a major part of the course.

REC 482 Leisure Crafts and Activities in Recreation

A study of leisure crafts through creative . activities with a multiplicity of craft media. Focuses on program implementation with various types of groups.

Department of Special Education

Professors-L. Hayes, L. Stoia, M. Swack. (chairman), W. Younie

Associate Professor-E. Abare Assistant Professors-G. Ford, S. Kuveke, K. Leicht, S. Riggs, D. Samuels Instructor-D. Newman

The Department of Special Education offers intensive specialized study leading to a bachelor of arts degree in educating the handicapped student. The major emphasizes the area of mental retardation along with emotional disturbance, physical handicaps and learning disabilities. The department offers many practical experiences in classroom management.

Students are exposed to instructional materials used in the education of exceptional children and are presented with various modes of curriculum planning for these children. Students majoring in special education are prepared for teaching positions in all areas, with the exception of the blind and the deaf, in public and private schools and residential institutions. They are eligible, upon successful completion of the program, to be certified as teachers of the handicapped by the State of New Jersey. Graduates may teach the maladjusted, multiple handicapped, and orthopedically handicapped.

Major students who elect the prescribed elementary school endorsement sequence also receive elementary certification upon graduation.

Entrance Requirements

Students who wish to major in special education must present documented evidence of having worked with handi-capped children for 120 clock hours in nonpublic schools.

Note: A teacher aide experience is arranged, usually during the first semester of the junior year. It is called the pre-practicum experience with no course credit given. One full day must be kept open to accommodate this requirement.

| lo accommodale inis requirement. | | | | |
|----------------------------------|-------------------------|-----|--|--|
| MAJOR REQUIREMENTS 36 credits | | | | |
| PED 201 | Psychology and Educa- | · 3 | | |
| | tion of the Handicapped | | | |
| SPED 301 | Education of the Train- | . 3 | | |
| | able Mentally Retarded | ۰. | | |
| SPED 302 | Education of the | 3 | | |
| | Educable Mentally | | | |
| | Retarded | • | | |
| SPED 303 | Education of the | 3 | | |
| | Educable Mentally | | | |
| | Retarded II | | | |
| SPED 304 | Teaching Reading to the | 3 | | |
| | Mentally Retarded | • | | |
| SPED 305 | Art Activities in | 3 | | |
| | Special Education | • | | |
| *SPED 320 | Practicum in Special | 3. | | |
| | | ~ | | |
| SPED 410 | Counseling and Voca- | 3 | | |
| | tional Guidance for | | | |
| | Handicapped Children | • | | |

| SPED 411 SPED 412 | Prescriptive Teaching Education of the Emo- tionally and Socially | 3 3 |
|----------------------|---|--------|
| SPED 413 | Maladjusted Education of the Neuro- logically Impaired and | 3 |
| RLA 423 | Physically Handicapped Advanced Reading Techniques | 3 |

*Note: A practicum, SPED 320, is required of all majors in their junior year. The practicum affords the student the opportunity to work with handicapped children in a public school, private or state institution or government agency.

The Officer of Field Laboratory Experience, or the Department of Special Education, may be contacted for further information.

| DIREC | TED E | LECTIVES 13 cree | dits |
|---------------|--------|--|-----------|
| BIO . | 214 | Applied Anatomy and Physiology | À. |
| PATH | 261 | Speech Disorders | · 3 |
| PE | 388 | Adapted Physical Education | 3 |
| PSY | 210 · | Developmental Psy- chology | 3 |
| | | | |
| CERTI | FICATI | ON REQUIREMENTS 24 cree | dits |
| Certi Educ | | ON REQUIREMENTS 24 crea Culminating Field Experience | dits 8 |
| | | Culminating Field Experience Educational Psychology: Adaptations and Inter- | |
| EDUC | 403 | Culminating Field Experience Educational Psychology: | 8` |

| SPED | 404 | Seminar in Student | 1 |
|------|-----|--|---|
| | | Teaching | |
| | | 1.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1 | |

Plus one human relations course from the list given on p. 37

Plus one professional preparation course from the list given on p. 38

Note: Credits for PSY 110 and HSC 120 may. be applied toward partial fulfillment of liberal studies requirements.

ELEMENTARY EDUCATION

| ENDO | RSEM | ENT 17 cre | dits | |
|--|-------|--------------------------------------|------|--|
| | | cation program is for spe | cial | |
| educ | ation | majors only. | | |
| EC | 351 | Math in Early Childhood Education | . 3 | |
| ELED | 300 | The Elementary School | 3 | |
| | | | | |
| eled | 320 | Teaching Language Arts | 3 | |
| | | in the Elementary School | | |
| ELED | 326 | Teaching Music in the | 2 | |
| | | Elementary School | | |
| ELED | 307 | Teaching Science in the | 2 | |
| | ŲΖ1 | | 2 | |
| | | Elementary School | | |
| ELED . | 328 | Teaching Social Studies | 2 | |
| | • | in the Elementary School | | |
| SPECIAL EDUCATION | | | | |
| ELECT | IVE | 21 cre | dits | |
| This service as a service as is for students in an | | | | |
| This course sequence is for students in an- | | | | |
| othor | togo | bing major who wish to t | ava | |

other teaching major who wish to take courses in special education.

| SPED 201 | Psychology and Educa- | 3 |
|----------|--|---|
| SPED 301 | tion of the Handicapped Education of the Train- able Mentally Retarded | 3 |

| • | | • | |
|-------|-----|-------------------------|-----|
| SPED | | Education of the | · 3 |
| • | | Educable Mentally | |
| | | Retarded I | |
| SPED | 303 | Education of the | 3 |
| | | Educable Mentally | |
| | | Retarded, II | |
| SPED | 304 | Teaching Reading to the | 3 |
| | | Mentally Retarded | |
| SPED | 410 | Counseling and Voca- | 3 |
| | | tional Guidance for | |
| | | Handicapped Children | |
| SPED | 411 | Prescriptive Teaching | · 3 |
| U, FD | 4 | i totonpiito todo ing | • |

Courses

Unless otherwise noted, all courses are for 3 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 the pre-school handicapped children. Emphasis on teaching techniques, materials and programs most appropriate for these children.

SPED 210 Education of the Profoundly Retarded

Provides students with the developmental model of training and educating profoundly retarded children and adults. Examines homes, schools and institutions as well as new alternatives for delivering care.

SPED 215 Rights of the Handicapped

Litigation and legislation relating to the rights of handicapped persons considered within a sociological and educational context. Resultant ideologies and issues are explored in relation to the changing role of the special educator.

SPED 301 Education of the Trainable Mentally Retarded

Methods for educating mentally retarded children who would not benefit from classes for the educable mentally retarded. Instructional materials, techniques and resources. Study of existing programs on a state and national level. One-day per week practicum in a special education classroom of a participating school is included.

Prerequisite: SPED 201

SPED 302 Education of the Educable Mentally Retarded I

Methodology and curriculum development for the mentally retarded at primary and intermediate levels. Organization and planning of activities and materials, use of resources, selection of equipment, records and reports, guidance, health and welfare services. A one-day per week practicum in a special education classroom of a participating school is included. Prerequisite: SPED 201

SPED 303 Education of the Educable Mentally Retarded 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 oneday per week practicum in a special education classroom of a participating school is included.

Prerequisite: SPED 201; corequisite: SPED 302

SPED 305 Art Activities in Special Education

Art activities as modes of perception and integration fundamental to human growth and learning. Art forms suitable for the teaching of the handicapped. Prerequisite: SPED 201

SPED 320. Practicum in Special Education

Students are assigned to work in a variety of special education centers. The practicum is the second half of the junior field experience in special education. The first half is completed concurrently with SPED 302. The student spends one full day per week in a participating school. Experiences include observation of exceptional children and teaching individuals and small groups under supervision. Students register for this course with the Office of Field Laboratory Experiences the semester prior to taking SPED 303.

Prerequisites: SPED 302 and the pre-practicum experience; corequisite: SPED 303

SPED 404 Seminar in Student Teaching

Current trends and developments in public education are explored. Particular attention is given to classroom management and other problems confronting student teachers. Conducted during the semester of the student teaching experience. Corequisite: SPED 403 1 credit

SPED 410 Counseling and Vocational Guidance for Handicapped Children

A study of existing rehabilitation resources in the community. The contributions and services of the rehabilitation team to the child and his family. The availability of these services and guidance as to their uses are stressed. For seniors only

SPED 411 Prescriptive Teaching

Methods for applying various special teaching techniques to the diagnosis and education of the child with multiple handicaps. Integration of perceptual, motor, sensory and management approaches. A practicum comprises a part of this course. For seniors only

SPED 412 Education of the Emotionally and Socially Maladjusted

The identification and classification of emotionally disturbed and socially maladjusted children. A study of the organization of classes and teaching methods. A small number of seniors enrolled have the option of assignment to a special section in conjunction with the "therapeutic tutoring program." Information relating to this program is provided in a bulletin available from the department. The program may not be offered every semester. For seniors only

SPED 413 Education of the Neurologically

Impaired and Physically Handicapped Presents learning problems stemming from physical handicaps and neurological impairment in children with basically normal intelligence and sensory abilities. Includes therapies, teaching techniques, procedures for assessment of progress and an exploration of basic and recent literature. For seniors only

SPED 430 Education of the Exceptional Child

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

SPED 499 Independent Study

As approved and to be arranged. 1-3 credits

THE SCHOOL OF HEALTH PROFESSIONS AND NURSING

The School of Health Professions and Nursing

Suzanne Law Hawes, Dean Office: Hunziker Wina 120

The School of Health Professions and Nursing offers bachelor's degrees in community health education, nursing and speech correction.

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.

Honors Program in Life Science Ethics

The honors program in life science ethics offers an exploration of the ethical dimension surrounding both the actual achievement of advances in the life sciences and the implications of the uses of such knowledge.

Students who seek to challenge their intellectual curiosity, and who can tolerate the legitimacy of a value system other than their own, should be enriched by the examination of the ethical dimensions of such issues as human and animal experimentation, the utilization of limited health resources, and consideration of the realm of genetic engineering. The program has special attraction for students majoring in biology, nursing, philosophy, psychology or sociology.

| COMMON CORE 39-40 credits Biology | | | | |
|--------------------------------------|-----------------------------|--|---------------|--|
| BIO BIO | 163 164 | General Biology I General Biology II | 4 4 | |
| Choc BIO BIO BIPY | ose on 302 306 475 | e of the following: Human Genetics General Genetics Behavior Genetics | 3 4 4 | |
| Psych Psy | ology 110 | , General Psychology | 3 | |
| Choc | se on | lethods e statistics course and one hods course by advisement | | |
| Philo : Phil | sophy 130 | Fthics | 3 | |
| PHIL PHIL | 140 325 | | 3 · 3 3 | |
| Life S | cienc | e Ethics | | |
| LSE | 310 | Ethics/Values Issues in the Life Sciences: An Over- view | 3 | |
| LSE | 400 | Case Studies in Life Sci- ence Ethics | 3 | |
| LSE | 480 | Seminar: Public Policy in the Life Sciences | 4 | |

DIRECTED MAJOR ELECTIVES 9-12 credits Courses in the major are selected by advisement.

DIRECTED PROGRAM ELECTIVES 6 credits Courses outside the major are selected by advisement.

Department of Health Science

Professor: S. Lisbe (chairman) Associate Professors: R.L. Daniels, A. Hudis Assistant Professor: G. Collins Instructors: K. Bauer, J. Levitan

The Department of Health Science offers a major program leading to a bachelor of science dearee in community health and/or school health education. Certification in school health education is also available for movement sciences and leisure studies majors. The major in community health is designed to prepare individuals to work with professionals in health and allied health fields and with the community in planning, implementing, and evaluating the educational component of community health services. Health educators are employed by local, state, federal and voluntary health agencies, community health centers, hospitals, clinics, health maintenance organizations and private industry.

| MAJC | or reg | QUIREMENTS 45-52 cr | edits |
|------|--------|---|-------|
| HSC | 200 | Consumer Health | 3 |
| HSC | 300 | Community Health | 3 |
| HSC | 310 | Health Care Systems | 3 |
| HSC | 315 | Human Diseases | 3 |
| HSC | 322 | Nutrition for Health Pro- fessionals | 3 |
| HSC | 330 | Human Behavior and | 3 |
| | | Health Education | ٠ |
| HSC | 351 | Methods and Curriculum | 3 |
| | | in School and Communi- | |
| | | ty Health Education | |
| HSC | 361 | Research Analysis and | 3 |
| | 100 | Evaluation in Health | ~ |
| HSC | 400 | Epidemiology | 3 |
| HSC | 450 | Health Administration | 3 |
| HSC | 490 | Human Sexuality | 3 |
| HSC | 491 | Alcohol and Drug Abuse Problems | 3 |
| HSC | 497 | Field Work in Community | 8 or |
| | | Health | 15 |
| HSC | 498 | Seminar in Community | 1 |
| | | Health | |

| DIREC | TED EL | ECTIVES 29 | credits |
|-------|--------|---|------------------|
| BIO | 170 | Basic Microbiology | 3 |
| BIO | 212 | General Anatomy and Physiology I | 4 |
| BIO | 213 | General Anatomy and Physiology II | 4 |
| BIO | 302· | Human Genetics | 3 |
| CHEM | 120 | Principles of Chemistry | 3 |
| HSC | 360 | Biostatistics | 3 ' |
| PSY | 110 | 'Gèneral Psychology | 3 |
| PSY | 210 | Developmental Psy- chology | , ³ . |
| SPAN | 110 | Spanish (basic Spanish for health professionals) | 3 |
| | | • | • . |

TEACHER CERTIFICATION REQUIREMENTS

| | • . | 27 cre | dits |
|--------------|-------------|---|-------------------|
| educ | 3 33 | Individualized Instruction | . 3 |
| educ | 403 | Culminating Field | . 8. |
| HSC | 321 | Experience Nutrition in Early Child- | . 3 |
| п <u>э</u> С | SZT | hood (in lieu of HSC 322) | |
| HSC | 404 | Seminar | °. 1 · |
| LMS | 323 | Modern Educational Media | . 1 <u>-</u> 3 |
| rla | 329 | Foundations of Reading | 3. |
| rla | 330 | Reading Strategies for 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 selfdefense.

HSC 300 Community Health

Organization and function of community health agencies and their relation to the school and community health programs. Includes discussion on chronic and communicable disease, pollution, sanitation programs, accidents, food handling and preservation, and consumer health. Includes field work.

HSC 310 Health Care Systems

An overview of our present health care system. Class discussions and reading assignments focus on identifying the changing roles of traditional health service organizations and health professionals, and the sociopolitical and technical pressures that lead to these changes. In addition, the more recently developed health service and planning agencies and health professional occupations are identified and discussed in terms of their efforts to restructure the organization, finance and delivery of health services.

HSC 315 Human Diseases

The physical and social determinants of the major diseases affecting U.S. citizens, especially New Jersey residents. Symptomatology, sequellae and appropriate intervention strategies are identified and discussed.

HSC 320 Nutrition

A foundation study of human nutrition emphasizing its relationship to optimum physical and emotional health. Includes basics of sound nutrition, requirements of various food elements, diet planning, diet patterns for specific age groups, nutritional fads and weight control.

HSC 321 Nutrition in Early Childhood

Basic nutrition concepts and knowledge related to the particular needs of students in early childhood education. Emphasis on educational application, especially methodology, analysis and development of nutrition programs in schools and other child development programs.

HSC 322 Nutrition for Health Professionals

Introduction to human nutrition that emphasizes the application of basic nutrition information in the community and health delivery system. Includes fundamentals of nutrition science, relationship between nutrition and individual well-being, assessment of nutrition status, nutrition through the life span, consumer nutrition concerns and therapeutic nutrition. Prerequisite: Either chemistry, biology, mi-

crobiology or permission of the instructor.

HSC 330 Human Behavior and Health Education

Ņ

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.

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.

Prerequisite: HSC 360

HSC 370 Concepts and Issues of Aging

Changes in certain aspects of health during the middle and later years including changes in anatomy and physiology, in nutritional requirements, in sensorium. Aging and sexuality. Common causes of mortality and morbidity. Attention to psychosocial and economic aspects and to legislation and community organization for satisfying health needs of aging persons.

HSC 400 Epidemiology.

Epidemiology of disease; how diseases are spread, prevented and controlled. Introduction to the principles of epidemiologic investigation. Prerequisites: HSC 360, 361

HSC 404 Seminar in Student Teaching

Latest trends and developments in health education are explored. Problems of classroom management are discussed. This course is conducted during the semester of the student-teaching experience.

HSC 450 Health Administration

Focus is on acquiring health service administration skills. Classroom discussions and reading assignments introduce the student to modern health care management concepts and techniques. Visits to various health service delivery organizations develop a better understanding of the interrelated and interdependent nature of the health care system. Prerequisite: HSC 310

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 475 Nutrition and the Elderly

The present nutritional status of the elderly, factors which influence their nutritional status, nutritionally related health problems of the elderly, nutritional approach to increase longevity, and programs and policies for improving the nutritional status of the aged.

HSC 490 Human Sexuality

The biological, sociological, psychological and educational aspects of human sexuality. Anatomy and physiology of reproduction and sexual response. Includes discussion and material dealing with contraception, abortion, homosexuality, deviation and other psychological and sociological aspects of human sexuality.

HSC 491 Alcohol and Drug Abuse Problems

A discussion and analysis of new developments in drug and alcohol abuse, research, education, treatment, legal and social policy. Social conditions that promote use of drugs and alcohol and abuse potentials are examined. Consultants present topics unique to their profession.

HSC 497 Fieldwork in Community Health

This quarter course provides the student with a supervised, full-time internship in a health sector organization. The student is encouraged to apply his knowledge and to test organizational theory in the working environment. Taken concomitantly with HSC 498; open only to senior community health majors. 8 or 15 credits

HSC 498 Seminar in Community Health

This quarter course focuses on the issues and problems confronting health professionals in our contemporary health care system. Discussions concentrate on developing appropriate strategies that lead to the feasible solutions of problems encountered during student internships. Taken concomitantly with HSC 497; open only to senior community health majors. 1 credit

HSC 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of Nursing

Professors: S.L. Hawes, M. Marshall Associate Professors: A. Cerchio, H. Hakerem, G. Harris, H.D. Maciorowski

Assistant Professors: A. Berkery, M. Boehlke, I. Bradstreet, K. Connolly, D. D'Amico, I. Foti (chairman), J. Fisher, D. Korn, J. Leonard, M. McElgunn, B. Newport, J. Parikh, L. Pedlar, S. Rosman, S. Sattin, O. Sobolak, E. Speranza, L. Waring

Instructors: B. Barba, A. Capo, B. Kellum

The Department of Nursing is nationally accredited by the National League for Nursing. Its primary mission is the education of students who will serve as professional nursing practitioners in health care delivery settings. Offerings of the department include a major in professional nursing, supported by a concentration in the biological, physical and social sciences and a broad base of liberal studies courses. Graduates of this program are awarded a bachelor of science degree with a major in nursing and a minor in the biological sciences. Upon completion of the program, graduates are eligible to take the licensure examination administered by the New Jersey Board of Nursing to become a registered professional nurse (R.N.).

All nursing science courses include a clinical laboratory component in which faculty guide students in the development of knowledge and skills in a variety of health care settings. An on-campus learning center provides a large inventory of audio-visual materials, video cameras, carrel room and hospital equipment and supplies for student laboratory experiences.

Entrance Requirements

In addition to the College's admissions requirements, prospective nursing majors are required to take both a biology and chemistry course, with laboratory, in high school. Candidates must demonstrate satisfactory achievement in high school, and on the Scholastic Aptitude Test (CEEB-SAT), as well as place in the upper 1/3 of their high school graduating class.

Students can be admitted to the program as freshmen or as transfers prior to sophomore year. Transfer students and students changing majors are eligible for admission following application and review by the department. It should be noted that students must have completed BIO 170, 212-213 and PSY 110, 210 before being permitted to enroll in Nursing Science I.

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 Nursing Science I.

All registered nurse students are required to take Nursing Science I, II and VI. Nursing Science III, IV and V may be challenged by means of examination, both objective and clinical. Students must receive a "C" grade or better on the objective challenge examination in order to take the clinical

challenge examination. Students who do not succeed may register for the course. Prior to taking the Nursing Science V examination, all directed electives must be completed; registered nurses are urged to complete the directed electives prior to beginning Nursing Science I. Challenge examinations are offered during the preand summer sessions following the spring completion of Nursing Science II.

The Nursing Department maintains performance standards by which students are reviewed for continuing eligibility as majors. An academic grade point average of 2.0 in the major and directed elective courses must be achieved by the end of the sophomore year.

| MAJ | OR RE | QUIREMENTS 58 c | redits |
|---------------|------------|---|---------|
| NUR | 201 | Nursing Science I | 8 |
| NUR NUR | 202 301 | Nursing Science II Nursing Science III | 8 10 |
| NUR | 302 | Nursing Science IV | 10 |
| NUR | 401 | Nursing Science V | 10 |
| NUR | 402 | Nursing Science VI | 10 |
| NUR | 450 | Nursing Research | 2 |
| DIREC | CTED I | ELECTIVES 35 c | edits |
| BIO | 170 | Basic Microbiology | 3 |
| BIO | 212 | General Anatomy and | 4 |
| | | Physiology I | |
| BIO | 213 | General Anatomy and | 4 |
| BIO | 302 | Physiology II Basic Genetics | 3 |
| BIO | 312 | Advanced Anatomy and | 4 |
| | · · | Physiology | • |
| CHEN | | College Chemistry | 4 |
| CHEN . PSY | /165 | Organic Biochemistry | 4 |
| PSY | 210 | General Psychology Developmental Psy- | 3 |
| | 210 | chology | 0 |
| PSY | 430 | _Social Psychology | 3 |
| | | | |

Courses

NUR 201 Nursing Science I

(Fall semester—sophomore year) The evolution of nursing. Concepts of primary preventive nursing are utilized to promote the health of clients from newborn through adolescence. The theory of adaptation is applied to promote and maintain man's dynamic equilibrium. Through theory, clinical practice and the nursing process, holistic man's harmonic interaction with his environment is facilitated. Prerequisites: BIO 170, 212, 213, PSY 110 8 credits

NUR 202 Nursing Science II

(Spring semester—sophomore year) Enhances the scientific knowledge and interpersonal skills developed in Nursing Science I. As the individual moves along the developmental continuum, from young adulthood through senescence and death, emphasis is on application of the nursing process in promoting and maintaining harmonic interaction between the individual and the environment. Utilizing this continuum, greater focus is placed on the dynamics of the evolving family. New scientific knowledge and interpersonal skills are introduced and applied in client assignments and selected community experiences.

Prerequisites: NUR 201, CHEM 164, PSY 210 8 credits

NUR 301 Nursing Science III

(Fall semester-junior year) The theory of adaptation, as it relates to alterations on the health-illness continuum, is applied utilizing an interdisciplinary approach. Man's capacity to restore the system's integrity is evaluated through theory and clinical practice. Focus on important concepts of physiological and psychosocial maladaptations. In order to incorporate secondary and tertiary preventive interventions, clinical experiences are offered in a variety of settings enabling the student to apply the nursing process: Prerequisites: CHEM 165, NUR 202 10 credits

NUR 302 Nursing Science IV

(Spring semester-junior year) Continuation of Nursing Science III with specific concepts involving cardiovascular maladaptations.

Prerequisites: BIO 302, NUR 301 10 credits

NUR 401 Nursing Science V

(Fall semester—senior year) Continuation of Nursing Science IV with specific concepts involving endocrine, metabolic and neurological maladaptations.

Prerequisites: BIO 312, NUR 302 10 credits

NUR 402 Nursing Science VI

(Spring semester—senior year) Continuation of Nursing Science V with emphasis on the leadership responsibilities of the professional nurse. Provides the student with an opportunity to apply the nursing process to a group of patients within an acute care agency as well as to the community at large.

Prerequisite: NUR 401 10 credits

NUR 450 Nursing Research

(Fall semester-senior year) Designed to assist the student in understanding and utilizing research concepts and methods by developing the student's ability to analyze, criticize and interpret research. The process of problem identification, conceptualization, design, sampling data collection and analysis is explored. A published nursing research report is critiqued.

Prerequisite: Nursing Science IV. Suggested supporting courses: Statistics, philosophy or ethics.

2 credits

Department of Speech Pathology

Professors: F. Cohen, W. Hill (chairman) Associate Professor: E. Chopek Assistant Professors: A. Freund, J. Giattino, J. Hsu, A. Oratio, G. Walsh Clinic Coordinator: J. Haskell

The undergraduate program leading to a bachelor of arts in speech correction requires that students complete 30 credits of liberal education courses, 36 credits in the major and 7 credits in directed electives. If a student wishes to seek N.J. certification to teach in the public schools, 34 credits of professional education sequence courses must be completed.

Ninety hours of supervised clinical experience must be completed in the colleae speech and hearing clinic. An additional sixty hours may be completed during student teaching. Any student who does not wish to be certified to teach in the schools must complete these 60 hours in the clinic. A total of 150 hours of practicum experience is required for graduation.

Though not required, the following 12 credits of reading are strongly recommended for speech pathology majors:

| rla Rla | 329 423 | Foundations of Reading Advanced Reading | 3 3 |
|------------|------------|--|--------|
| | | Techniques | |
| RLA | 495 | Reading Improvement | 6 |
| | | and Practice | |

The department's speech and hearing clinic has a full-time clinic coordinator and is certified by the Professional Services Board of the American Speech-Language and Hearing Association.

MAJOR REQUIREMENTS

| MAJO | MAJOR REQUIREMENTS 36 credits | | | |
|------------------------------|-------------------------------|---------------------------|--------|--|
| PATH | 160 | Phonetics . | 3 | |
| PATH | .161 | The Nature of Speech, | 3 | |
| | | Language and Com- | | |
| | | munication Systems | | |
| PATH | 205 | Speech Laboratory 1 | . 3 | |
| | | (Observation-Teaching) | • | |
| Path | 262 | Orientation to Speech | . 3 | |
| | • | Pathology and Audiology | : | |
| PATH | 263 | Articulation Disorders | 3 3 | |
| PATH | 302 | Speech Laboratory Con- | 3 | |
| | | tinued 1 each | • | |
| PATH | 361 | Anatomy and Physiology | . 3 | |
| | | of the Auditory and Vocal | | |
| | | Mechanism | | |
| PATH | 363 | Introduction to Audiology | 3 | |
| PATH | 365 | Voice Disorders in Chil- | 3 | |
| | | dren . | • | |
| Path | 366 | Language Theory and | 3 | |
| | | Therapy 🕐 | | |
| PATH | 462 | Auditory Rehabilitation | 3 | |
| PATH | 463 | Stuttering and other | 3 | |
| | | Rhythm Disorders | | |
| | | | - | |
| DIRECTED ELECTIVES 7 credits | | | | |

| DIREC | DIRECTED ELECTIVES 7 CIEC | | |
|-------|---------------------------|-------------------------|---|
| BIO | 214 | Applied Anatomy and | 4 |
| | | Physiology | |
| SPED | 201 | Psychology and Educa- | 3 |
| | | tion of the Handicapped | |

STATE CERTIFICATION (SPEECH CORRECTION) REQUIREMENTS 34 credits **Professional Education Sequence**

| | | 28 cr | edits |
|------|-----|---|-------|
| EDUC | 403 | Culminating Field Ex- perience | 12 |
| ELED | 310 | Educational Psychology: Adaptations and In- terventions in the Classroom | |
| HSC | 120 | Current Health Issues | 3 |
| Path | 404 | Seminar in Student Teaching | 1 |
| PATH | 425 | Teaching Speech | 3 |
| PATH | 426 | Organizing Speech and Hearing Programs | 3 |
| PSY | 110 | General Psychology | 3 |

Education Electives

6 credits Choose one human relations course and one professional preparation course from the list on pp. 37-38.

The following courses are strongly recommended:

| PATH | 364 | Voice and Speech Pro- | 3 |
|------|-----|-----------------------|---|
| | | duction | |
| PATH | 367 | Sign Language | 3 |
| PATH | 368 | Communication Prob- | 3 |
| | | lems of the Elderly | |
| PATH | 369 | Community Hearing | 3 |
| | | Screening Programs | |
| | | | |

Courses

Unless otherwise noted, all courses are for 3 credits.

PATH 160 Phonetics

A study of sounds, stress, phrasing and intonation as they relate to.American English speech. The International Phonetic Alphabet is studied as a system for recording pronunciation and analyzing speech patterns. Practice in kinesiological application of sounds, written transcriptions and auditory analysis of speech patterns is emphasized.

PATH 161 The Nature of Speech, Language and Communication Systems

A general orientation to the study of human language communication. Topics include the nature of the speech signal, the structure and content of language, the nature of communicative interaction, human vs. animal communication, the relationship between language and thought, dialect variation and bilingualism, the relationship between the written and spoken system.

PATH 205 Speech Laboratory I

Students observe and evaluate a minimum · of 25 hours of therapy for speech, hearing and language problems. Weekly meetings are held to introduce students to clinical procedures. Taken in conjunction with PATH-263.

PATH 261 Speech Disorders

A course for non-speech-pathology majors which focuses on the normal acquisition and development of speech and language and on the organic and functional factors which interfere with normal acquisition and development. The role of the special education teacher in the school speech therapy program is considered.

PATH 262 Orientation to Speech Pathology and Audiology

An introduction to the historical development, present scope and trends in speech pathology and audiology. A specification of problems and an introduction to therapeutic principles and methods. Important terminology appropriate to the areas of specialization and responsibilities as a team member in a paramedical profession included.

PATH 263 Articulation Disorders

A study of the normal acquisition and development of articulation and of etiologies, evaluation and therapy procedures for articulation disorders. Prerequisite: PATH 262

PATH 302 Speech Laboratory 11

A minimum of 30 hours of supervised clinical experience working with children with speech, hearing or language disorders. Lesson plans and evaluations required for all students. Weekly meetings held to review clinical procedures. Prerequisite: PATH 205

May be repeated for credit. 1 credit each

PATH 361 Anatomy and Physiology of the Auditory and Vocal Mechanism

Anatomy and physiology of the respiratory, articulatory, vocal and auditory mechanisms and their application to speech and hearing disorders. Prerequisite: BIO 214

PATH 363 Introduction to Audiology

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

PATH 364 Voice and Speech Production

A study of the speech mechanism and its relationship to the development and mastery of basic breathing, vocal and articulation skills. Students in speech pathology, communication, education, business, theater, radio, singing and allied fields are encouraged to master these skills. Special attention given to individual voice, articulation and communication problems. Conference and practice hours to be arranged.

PATH 365 Voice Disorders in Children

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

Prerequisites: PATH 361.

PATH 366 Language Theory and Therapy

Normal and abnormal language systems and behavior. Topics include cognition and language, language analysis, normal development, application of developmental psycholinguistics to language therapy. Prerequisite: PATH 161

PATH 367 Sign Language

Designed to teach sign language and the manual alphabet to health professionals, speech therapists, rehabilitationists and teachers of children with special problems so they can work with children or adults who have need for an alternate means of communication.

PATH 368 Communication Problems of the Elderly

Normal communication systems, psychological and neuro-physiological correlates of aging, effects on communication ability due to hearing loss, pathological processes, alterations in environment and lifestyle and the roles of rehabilitation specialists.

PATH 410 Language Development and Speech Improvement

The study of normal speech and language acquisition and speech and language problems for non-speech pathology majors. Consideration is given to: 1) language acquisition, improvement and change; 2) linguisitic and phonetic elements of oral language with emphasis on preschool and early childhood developmental language programs: 3) fundamental concepts of articulation and voice production; 4) basic understanding of severe speech problems.

PATH 414 Community Hearing Screening Programs: Audiology Lab

Supervised experience in community hearing screening programs with groups representing age levels from pre-school children to the geriatric population.

PATH 425 Teaching Speech

The speech therapist's role in the development and conduct of speech improvement programs in the public schools. Speech materials suitable for use with school-age children according to the classroom curriculum needs reviewed and discussed. Special attention given to materials used with school-age children who have speech and language problems.

PATH 426 Organizing Speech and Hearing Programs

The factors important to the organization, administration and supervision of speech and hearing programs in the public schools. The school speech pathologists' inter-professional relationships as they relate to the program are considered. Prerequisite: PATH 425

PATH 462 Auditory Rehabilitation

Principles of therapy and clinical techniques for the development of speech and language for the hearing impaired. Management procedures in speech and language rehabilitation and/or rehabilitation include auditory training, speech-reading and selection and use of appropriate amplication systems. Prerequisite: PATH 463

PATH 463 Stuttering and Other Rhythm Disorders

Includes significant theories, research and practices in therapy for children and adults; preventive principles in the home for younger children; and evaluative and therapeutic procedures in the clinic and classroom for older children and adults.

PATH 499 Independent Study As approved and to be arranged. 1-3 credits

The School of Humanities

Richard Atnally, Dean Office: Matelson Hall 362

The School of Humanities offers degree programs in African and Afro-American studies, English, foreign languages, history, liberal studies, and philosophy and an endorsement program in bilingual/bicultural education. In addition to these programs, designed for students interested either in pursuing professional careers, including teaching, or in developing a future vocational interest, the school provides a variety of liberal studies courses for other majors.

The school also offers a series of interdisciplinary honors courses that combine broad cultural seminars with intensive individual study and lead to an "honors in humanities" degree designation.

Finally, the school serves the campus and the community throughout the year with an array of on-campus conferences and off-campus projects, such as the Great Falls Festival and the production of films on topics of humanistic interest.

The Honors Program in Humanities

Taught by different members of the school, under the direction of the dean, the honors courses in humanities are designed to challenge to the fullest a student's capacities through structured multidisciplinary seminars and intensive individual study. The courses' general aims are: 1) to promote intellectual excellence within a common scholarly community; 2) to foster an awareness of various disciplines and their unity; 3) to offer opportunities for self-direction of future goals.

By fulfilling individual departmental requirements, a student may concentrate in any major in the College and, at the same time, participate in the humanities honors program by fulfilling the minimum requirements outlined below. Admission and continuance are determined by a Humanities Honors Advisory Committee, whose individual members also act as academic advisors to students enrolled in the program.

| HONO | HONORS COURSES 15 cre | | dits |
|------|-----------------------|---|------|
| HUM | 199 | Humanities Honors Semi- nar I: Representations of Humanity Past and Pres- ent | 3 |
| HUM | 200 | Humanities Honors Semi- nar II: Representations of Humanity Past and Pres- ent | 3 |
| HUM | 498 | Humanities Honors Re- search: Independent Study | 3 |
| HUM | 499 | Humanities Honors Thesis: Independent Study | 3. |

Plus one of the following:

| HUM 300 | Humanities Honors Collo- |
|-----------|-----------------------------|
| | guium: The Twentieth |
| | Century and Its Discon- |
| | tents |
| 11111 004 | Lives an High Lipport Collo |

3

- HUM 301 Humanities Honors Collo- 3 quium: The Enlightenment: Origins of Modern Consciousness
- HUM 302 Humanities Honors Collo- 3 quium; Medieval and Renaissance Culture
- HUM 303 Humanities Honors Collo- 3 quium: Classical Tradition and Christian Civilization

Courses

Unless otherwise noted, all courses are for 3 credits.

HUM 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-Renäissance, with emphasis on representative authors, e.g., Plato, Sophocles, Dante. Readings, seminar discussions, guest lecturers and educational films explore such perennial questions as the interplay of self and society, the value of intelligence, man's place in nature, heroism, etc.

Prerequisite: Permission of Humanities Honors Advisory Committee

HUM 200 Humanities Honors Seminar II: Representations of Humanity Past and Present

Selected humanistic problems in the literature, history and philosophy of the past and present. Semester is divided into two periods—the age of revolutions and twentieth-century—with emphasis on representative authors, e.g., Bacon, Wordsworth, T.S. Eliot. Readings, seminar discussions, guest lecturers and educational films explore such perennial questions as the interplay of self and society, the value of intelligence, man's place in nature, heroism, etc.

HUM 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.

HUM 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.

HUM 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.

HUM 303 Humanities Honors Colloquium: Classical Tradition and Christian Civilization

A study of the philosophical, anthropological and social concepts of the Greeks and Romans and their impact on Christian culture. Emphasis on the development of man's identity as an individual in the classical world.

HUM 498 Humanities Honors Research: Independent Study

Independent study and research in an approved subject for the honors program.

HUM 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

Liberal Studies Major

Students who are interested in several disciplines offered by the School of Humanities, but who do not wish to major in any one of them, may want to pursue the liberal studies major offered by this school. With the assistance of an academic advisor, students select a total of 48 credits from at least three of the school's majors, taking no more than 18 credits in any one of them.

Successful completion of the program results in a bachelor's degree in liberal studies, School of Humanities.

THE SCHOOL OF HUMANITIES

Department of African and Afro-American **Studies**

Professor-E. Bell (chairman) Associate Professor – V. McClean Assistant Professors – L. Agard-Jones, J. Jordan

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 REG | UIREMENTS | 36 credi | ls |
|------------------------|--|----------|-------------|
| Required C AAAS 100 | | | 3 |
| | dditional credits ch following areas as i | | n |
| Historical- | three courses requir | ed . | |
| AAAS 110 | Afro-American Histo 1865 | | 3 |
| AAAS 111 | Afro-American Histo Since 1865 | Dry | 3 |
| AAAS 201 | The Civilizations of A cient Africa | ۸n- | 3 |
| AAAS 203 | Colonialism in Africe | a | 3 |
| AAAS 240 | Afro-Caribbean His | torv | 3 |
| AAAS 245 | The Caribbean in th Twentieth Century | ne | 3 3 3 |
| AAAS 301 | Contemporary Afric | a | 3 |
| AAAS 310 | Recent Interpretation Afro-American Stud | | 3 3 |
| AAAS 315 | Afro-American Bac ground for Teacher | | 3 |
| | ological —two cour | ses re- | |
| quired. | ment man and and a set of | | |
| AAAS 112 AAAS 131 | The Black Child Afro-American Soci | al , 🐔 | 3 3 |
| AAAS 202 | Thought African Family Life | | 3 |
| AAAS 204 | African Cultural Sys | tems | • |
| AAAS 230 | Roots of Racism in t United States | | 3 |
| AAAS 255 | The Black Woman E | X- | 3 |
| AAAS 258 | Black Psychology | · · | 3 . |
| AAAS 260 | Psychological Testir American Children | ng of | 3 3 |

| AAAS | 265 | Unity/Diversity in the | 3 |
|---|----------------|--|-------------|
| | | Black Community | |
| AAAS | | The Black Family | 3 3 |
| AAAS | | The Black Church | 3 |
| AAAS | 308 | Police and the Black | 3 |
| | • | Community | |
| AAAS / | 412 | Fundamentals of Social | 3 |
| | | Work | |
| Politic | al —∙tw | vo courses required. | |
| AAAS | | Black Politics | 3 |
| AAAS : | 205 | Pan-Africanism and the | 3 3 |
| • | | Black Experience | |
| AAAS : | 208 | Blacks and the Criminal | -3 |
| | | Jüstice System in the Unit- | |
| | | ed States | |
| AAAS : | 238 | African Politics | 3 |
| | • | • | 1 |
| Humar | nities (| and the Fine Arts— 6 credits | |
| require | ed. | | |
| AAAS | | Afro-Caribbean Dance | 3 |
| AAAS | 102 | ContemporaryAfro-Amer- | 3 |
| | · | ican Dance | |
| AAAS | 105 | Linguistic Adaptation of | 3 |
| | | Today's Minorities | |
| AAAS | | Afro-American Music | 3 |
| AAAS 2 | | Elementary Swahili | 3 |
| AA:AS 2 | 207 | Blacks and the Mass Me- | 3 |
| | | dia | • |
| AAAS 2 | | Beginner's Karate | 3 3 3 |
| AAAS 2 | | Intermediate Karate | 3 |
| AAAS 2 | | Advanced Karate | 3 |
| AAAS (| 228 | The Afro-American Liter- | 3 |
| | 200 | | ~ |
| AAAS 2 | 229 | The Afro-American Liter- | 3 |
| AAAS 2 | 733 | ary Experience II Introduction to the Art of | o |
| ~~~J | 200 | Africa | 3 |
| AAAS (| 307 | Intermediate Swahili | .3 |
| AAAS 3 | | African Literature | 3 |
| AAAS | | Blacks and the Per- | 6 |
| | | forming Arts | 0 |
| AAAS 3 | 313 | Afro-American Theatre | 3 |
| AAAS 3 | | Afro-American Theatre | 6 |
| | | Production | Ŭ |
| AAAS 3 | 330 - | Images of the Black Man | 3 |
| | | in Early American Art, | Ŭ |
| | | 1600-1800 | |
| AAAS 3 | 340 | Creative Teaching | 3 |
| | | through Performing Arts | |
| Foone | | | |
| | | and Community Developmer es required. | 11 |
| AAAS 2 | 220 | Career Guidance | 3 |
| AAAS 2 | | Minority Enterprises | 3 |
| AAAS 2 | | Blacks and the Business | 3 |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | _00 | World | 0 |
| AAAS 2 | 200 | Student Community Ser- | 3 |
| | | vice | - |
| AAAS 2 | 110 | Problems and Practices | 3 |
| • | | of Ethnic Markets | - |
| AAAS 4 | 120 | Economic Structure of the | 3 |
| | .' | Black Community | |
| | PFOI | JIREMENTS 18 credi | ite |
| | | 1 · · · · · · · · · · · · · · · · · · · | |
| AAAS 1 | 100 | Infroduction to African and Afro-American Stud- | 3 |
| • • | | ies | |
| Plus a | tota | l of 15 credits chosen from | m |
| | | concentrations above, by a | |
| viseme | | | - • |
| | | | |
| | | | |
| | | · · | |
| | | | |

| CERTI | FICATI | ON REQUIREMENTS | | |
|----------------------------|------------------|--|--|--|
| Early Childhood 76 credits | | | | |
| EC | 201 | Creative Art for Early 3 | | |
| EC . | 202 | Childhood Music and the Young 3 | | |
| EÇ | 220 | Child Reading and the Young 3 | | |
| EC | 221 | Child The Young Child and 3 | | |
| EC | 30Ò | Language Arts Practicum in Early Child- 4 | | |
| EC | 320 | hood Education Early Childhood Cur- 6 | | |
| EC | 321 | riculum I Early Childhood Cur- 6 | | |
| EC . | 351 | riculum II Mathematics in Early 3 Childhead Education | | |
| EC | .364 | Childhood Education Workshop in Reading 3 and Learning Problems of | | |
| EĊ | 404 | the Young Child Seminar in Early Child-1 | | |
| | 403 | | | |
| HSC | 321 ³ | Culminating Field Ex- 8 perience | | |
| PATH | 32 I 410 | Nutrition in Early Child- 3 hood Language Development 3 | | |
| FAIN | 410 | , rand Speech Improve- | | |
| PSY PSY | .110 210 | General Psychology 3 Developmental Psy- 3 | | |
| SPED | 430 | chology Education of the Excep- 3 | | |
| TED | 310 | tional Child Educational Psychology: 3 | | |
| | | Adaptations and In- terventions in the Classroom | | |
| Plus c areas | | purse from each of the following | | |
| Histor | | 3 | | |
| Scien | | 3 CS 3 | | |
| | emati | uman relations course from the | | |
| follow | | | | |
| SED | 381 | Educational Sociology 3 | | |
| SED | 391 | Challenge, Change and 3 Commifment in Educa- | | |
| SED | 432 | tion Human Adaptations and 3 | | |
| | | Alternatives in the School The Inner City Child and 3 | | |
| ONED | 402 | His Environment | | |
| | | ofessional preparation area | | |
| FASE | e 170m 398 | the following: Simulated Laboratory Ex- 3 | | |
| | 070 | periences in Elementary | | |
| | 400 | Schools | | |
| HSA | 400 | Modern Approaches to 3 Measurement in the | | |
| LMS | 304 | Classroom Instructional Media and 3 the Curriculum | | |
| LMS | 323 | the Curriculum , Modern Educational 3 Media | | |
| SED | 329 | The Competencies of 3 Open Education | | |
| SED | 380 | Insights and Outlooks in 3 Education | | |
| SED | 480 | Field Research Studies in 3 Teacher Education | | |
| SPS | 410 | Educational Testing and 3 | | |

SPS

410

Educational Testing and

Evaluation

3

| Eleme | entary | Education 78 crea | lits |
|---------------|---------------------|--|-----------------------|
| FASE | 301 | Practicum in Elementary Education | 3 |
| FASE | 303 [`] | Education Laboratory: | 4 |
| • - | • | Crafts and Strategies in Elementary Mathe- | |
| FASE | 305 | matics The Urban and Suburban | 4 |
| | | Elementary Schools: Prob- lems and Issues | |
| FASE | 324 | , Teaching Math in the Elementary School | 2 |
| FASE | 325 | Teaching Art in the | 2 |
| Fase | 326 | Elementary School Teaching Music in the Elementary School* | 2 |
| FASE | 327 | Teaching Science in the | 2 |
| FASE | 328 | Elementary School Teaching Social Studies | 2 |
| RLA | 320 | in the Elementary School Teaching Language Arts | 3 |
| RLA | 323 | in the Elementary School Teaching Reading | 3 3 |
| rla | 423 | Advanced Reading Techniques | 3 |
| FASE 3 | 106 mày | be substituted | |
| | | · · · · · · | |
| | course ematic | in each of the following are cs | as: 3 |
| Scien | ce I Sciei | 000 | 3 |
| Litera | ture | | 3 3 3 3 3 |
| Histor | • | | |
| EDUC | 403 | Culminating Field Ex- perience | 8 |
| FASE | 404 _; | Seminar in Student Teaching | 1 |
| PE | 310 | Health and Physical | 3 |
| , | | Education Program in the Elementary School | • |
| PSY TBED | ,110 301 | General Psychology Theories and Practices of | 3 3 |
| | • . | Bilingual Education and | 5 |
| : TED | · ` <u>-</u> 210 | E.S.L. Educational Psychology: | [.] 3 |
| ļ | .,, | Multidimensional Char- | Ŭ |
| | | acteristics of People and Habitats | |
| URED | 110 | Introduction to Urban Studies | 3 |
| Ured | 482 | The Inner City Child and His Environment | 3 |
| Plus c LMS | ne of 203 | the following: Mèdia Selection for Chil- | [.] 3 |
| • | , | dren | |
| LMS | 302 | Media Selection for Adolescents | 3 |
| · TED | 325 230 | Children's Literature Explorations in Art | 3 |
| TED | 232 | Fundamentals of Music | 3 3 3 3 |
| TED | 234 | Concepts and Skills in the Social Studies | |
| TED | .235 | Concepts and Skills in Elementary Science | 3 |
| | | ې ^م | • |

| | Plus o from t | në pro | fessional preparation course owing: | |
|-----|------------------|--------------------|--|----------------|
| | FASE | 398 | Simulated Laboratory Ex- perience in Elementary | 3 |
| | HSA | 400 | Schools Modern Approaches to Measurements in the | 3 |
| | LMS | 304 | Classroom Instructional Media and the Curriculum | 3 |
| | LMS | 323 | Modern Educational | 3 |
| | Şed | 329 | The Competencies of Open Education | • 3 |
| | SED | 380 | Insights and Outlooks in Education | 3 |
| | SED | 480 | Field Research Studies in | 3 |
| | SPS | 410 | Teacher Education Education Testing and Evaluation | . 3 |
| | 6000 | | Education in Social Studies | ٠ |
| | | | 64 credi | ts |
| - | EDUC | 403 | Culminating Field Experience | 8 |
| | HSC | 120 | Current Health Problems | . 3 |
| | PSY | 110 | General Psychology | 3 |
| | RLA | 329 | Foundations of Reading | 3 |
| | rla | 330 | Reading Strategies for | |
| | SED | 301 | the Content Area | . |
| | 3ED | 301 | | 3 |
| | SED ` | 302 | Discovering Your | 3 |
| | SED . | 331 | Teaching Self (K-12) Implementing Your | 3 |
| | | х - _с , | Teaching Major (K-12)— Social Studies | |
| , | SED | 340 | Exploring the Teaching Field | ;1 |
| | SED | 404 | Instructional Seminar for Student Teaching | · 1· |
| | TBED - | 301 | Theories and Practices of Bilingual Education and E.S.L. | 3 |
| | TED | 310 | Educational Psychology: Adaptations and In- terventions in the | [`] 3 |
| | | 400 | Classroom | 2 |
| | URED | | The Inner City Child and His Environment | 3 |
| | | | fessional preparation course owing: | s |
| | LMS | 323 | Modern Educational | 3 |
| . ' | SED | 329 | Media The Competencies of Open Education | 3 |
| | SED | 342 | Ecology for Educators | 3 |
| | SED | 380 | Insights and Outlooks in Education | 3 . 3 |
| | SED | 428 | Simulated Laboratory Ex- periences in Secondary | 3 |
| | SED | 430 | Schools Teaching Literature to Young Adults: Grades | 3 |
| | SED | 480 | 5-12 Field Research Studies in Teacher Education | 3 |
| | | ••• | * | |

The designated number of credits from
each of the following areas complete the
requirements:American History6European History3Economics3Political Science3Sociology/Anthropology3Geography3

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-Caribbean Dance (same as PE 116)

Preparation of the body through conditioning exercises and dance sequences to perform ethnic dance forms from Africa and the Caribbean. 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 Contemporary Afro-American Dance

Dance—choreographed movement to musical sound—as a means of understanding the contemporary Afro-American experience.

AAAS 105 Linguistic Adaptation of Today's Minorities

Investigates what has variously been known as black English and the Spanish-English introduced by Puerto Rican residents of urban areas in an attempt to identify ways of bridging the gap with traditional English.

AAAS 110 Afro-American History to 1865

After a survey of the African heritage, including slavery, a study is made of the history of people of African descent in their New World environment. The role of Afro-Americans in the development of the U.S. to the Civil War is examined.

AAAS 111 Afro-American History since 1865

Beginning with an examination of the period of Reconstruction, the course explores the various survival tactics of Afro-Americans and the effects of governmental and societal action or inaction on their lives up to the present.

AAAS 112 The Black Child

A review of the literature on children of Afro-American descent. Students are assigned to work as volunteers tutoring elementary school children.

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 Black Politics

An examination and analysis of the political power structure and relationships in the black community. Emphasis is on those factors which make black communities relatively powerless and how this state of powerlessness can be ameliorated. Particular attention is paid to black political interaction in New Jersey.

AAAS 131 Afro-American Social Thought

The development of the social thought of black Americans in the nineteenth century regarding the nature of being and the circumstances and fortunes of black people. Begins with David Walker and Martin Delaney and concludes with Malcolm X, Stokely Carmichael and Bayard Rustin.

AAAS 201 The Civilizations of Ancient Africa

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 of all civilizations.

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 Colonialism in Africa

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 204 African Cultural Systems

Deals with both the nature and processes of African culture. Focuses on the African being, his religion, music, art and economic and political systems.

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.

Six credits (with lab or field activities)

AAAS 208 Blacks and the Criminal Justice System in the United States

Analyzes the presence of racism in the formulation and implementation of the law, in the courts, penal institutions and in the police department. An effort is also made to examine the relevance of social, economic and political factors in the adminstration of justice.

AAAS 209 Beginner's Karate

Attempts to influence positively and guide the general behavior of students by means of martial arts. Students are introduced to the various martial arts as an art form and as a sport. By use of martial arts, the student is taught the meaning of "peace," "tranguility," "no force," "give the way," and such other principles of non-aggression.

AAAS 210 Intermediate Karate

Designed to develop a higher understanding of the art of karate, to introduce the principles and philosophies related to the martial arts, to develop greater skill and knowledge in the combative part of karate and self-defense, to introduce the basic skills in teaching the art of karate and to receive a karate rank related to ability.

AAAS 211 Advanced Karate

Refines further the martial arts fundamentals introduced in AAAS 209 and 210.

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 selfpreparation and presentation.

AAAS 228 The Afro-American Literary Experience I

The black experience as depicted in literature by and about black people. Focuses on biographies, autobiographies and fiction.

AAAS 229 The Afro-American Literary Experience II

Focuses mainly on Afro-American drama, poetry and essays.

AAAS 230 Roots of Racism in the United States

A survey which traces and analyzes the development of American racism.

AAAS 233 Introduction to the Art of Africa An introductory course designed to explore and examine the origin, evolvement and meaning of African art. In addition to highlighting the forms, styles and expressions of African art, the course examines the role of

AAAS 238 African Politics

art in African life.

Deals with post-independence governmental political parties and ideological inclinations among African states. Emphasis is on the origin and evolvement of political institutions and their functions within the framework of contemporary Africa and the world in general.

AAAS 240 Afro-Caribbean History

Examines the history of the Caribbean starting with the discovery of the islands, colonization, slaveny and the evolution of a distinctly Afro-Caribbean personality and culture.

AAAS 245 The Caribbean in the Twentieth Century

An investigation of the local and international factors which have influenced the Caribbean states and played roles in their economic, social and political development. The influence of the U.S., England and Cuba, among others, is studied.

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 Psychological Testing of American Children

Explores and analyzes the pros and cons of psychological testing of black children in a racist society.

AAAS 265 Unity/Diversity in the Black Community

A discussion of the opposing political, religious and economic thoughts in the black community, such as community control and separation vs. integration. The diversity of the black community does not preclude the unity of Afro-Americans, which is discussed.

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 288 Blacks and the Business World

The nature and scope of managerial skills that a member of the minority must have in order to compete and be effective in the American corporate system and bureaucracy. Emphasis is on establishing and developing that type of managerial knowhow.

AAAS 299 Student Community Service

This course is designed to give the student an opportunity to coordinate his 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 300 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 301 Contemporary Africa

Deals with social, economic, political and technological aspects of contemporary Africa: the organization and management of these socio-economic and political forces determine both internal and external policies relative to the problem of nation building.

AAAS 302 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 307 Intermediate Swahili

Emphases primarily conversation and basic grammar. The class meets formally twice a week; in addition, student work with tapes in the language lab. The approach is concentrated on phonology, morphology and vocabulary.

AAAS 308 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 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 312 Blacks and the Performing Arts

Deals with the black experience in dance, singing, drama and other performing arts occupations. The course stresses basic skills and introduces the student to the contributions of blacks in these areas.

AAAS 313 Afro-American Theatre

An exploration of the black experience through the medium of theatre.

AAAS 314 Afro-American Theatre Production

The objective of this course is to stage a fullscale production at the end of the semester in which the course is given. Some theatrical background is required. 6 credits

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 330 Images of the Black Man in Early American Art, 1600-1800

An investigation of the depiction of black men in American art from its beginning and the influence these early images have on the contemporary perceptions of blacks.

AAAS 340 Creative Teaching through Performing Arts

A study of the performing arts as a teaching/learning device in the classroom. Exploration of the performing arts as a means of developing the child's self-expression and awareness of reality. Investigation of performing arts as a curriculum tool for the teacher.

AAAS 410 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 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

The course begins with an introduction to economics, 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

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Department of English

Professors—R. Atnally, P. Cioffari, M. Davidow, E. DeGroot, D. Duclos, R. Jaarsma, R. Kloss, V. Mollenkott, R. Nickson, J. Runden, S. Wertheim

Associate Professors—D. Edwards, J. Fulton, V. Granger, S. Hand, J. Hauser, J. Hoban, S. McNamara (chairman), F. Manno, A. Mazzella, S. Radner, D. Thomas

Assistant Professors-M. Conlon, J. Hartman, S. Kistler, R. Rosen Instructor-B. Kwalick

The English Department offers a major program in literature and a major with concentration in writing leading to a bachelor of arts degree in English, plus a minor in English and a variety of liberal studies or free elective courses for students in other programs. Students may choose from courses in English, American and comparative literature; linguistics, criticism and writing; or contemporary themes in literature and film.

The objectives of the program are: 1) to provide students with an understanding and appreciation of literature as art and the relation of literature to other art forms; 2) to heighten students' awareness of their linguistic, literary and cultural heritage; 3) to develop their critical reading, interpreting and thinking skills; 4) to increase their ability to communicate their ideas in writing; 5) to provide students with backgrounds for their careers; 6) to prepare students for advanced work at the graduate level.

Students majoring in English often choose careers in teaching, law, journalism, publishing, editing, public relations, advertising, computer technology, finance, or writing film and TV scripts, plays, novels, stories or poem.

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.

| ENGLIS | H REG | QUIREMENTS 30 cre | dits |
|--------------------|--------------|--|------------|
| Choose course: | | e of the following "sun | vey" |
| | s. 301 | English Literature through the Neoclassical Period | 3 |
| ENG (| 302 | English Literature: Ro- | 3 |
| ENG 3 | 303 | Mantic through Modern American Literature to | 3 |
| ENG (| 304 | 1865 American Literature 1865-1914 | 3 |
| ENG (| 305 | Literature of Western Eu- rope: To the Renaissance | 3 |
| ENG (| 306 | Literature of Western Eu- rope: Renaissance through Modern | 3 |
| | ebef | "period" courses, one of wh fore 1900: | hich |
| | 310 | Elizabethan and Jaco- | 3 |
| ENG 3 | 311 | bean Drama Literature of the English | 3 |
| ENG 🗧 | 312 | Renaissance Donne, Jonson and Their | 3 |
| ENG 3 | 313 | Contemporaries The Age of Dryden, Pope | 3 |
| ENG (| 314 | and Swift The Age of Johnson | 3 |
| | 315 | Romantic Movement in England | 3 3 |
| ENG (| 316 | Literature and Culture of the Victorians | 3 |
| ENG 🗧 | 320 | The English Novel: Defoe to Auden | 3 |
| ENG 3 | 321 | The English Novel: Dickens to Hardy | .3 |
| ENG 3 | 322 | Nineteenth-Century Eu- ropean Novel | 3 |
| After 19 | 900 | | |
| ENG 3 | 317 | Modern American Liter- | . 3 |
| | 318 319 | Modern British Literature Modern British and Ameri- | 3 3 |
| ENG 3 | 323 | can Poetry Twentieth-Century Eu- ropean Novel | 3 |
| Choose | e one | e writing course: | |
| | 330 | Critical Writing | 3 |
| | 331 1 250 | Creative Writing Journalism | 3 3 |
| | | e language course: | • |
| ENG 4 | 401 | Linguistics and Grammar | 3 |
| ENG 4 | 402 | Development of the Eng- lish Language | 3 |
| | | specialized author or semir | nar |
| COURSE: ENG · 4 | | Chaucer and His Age | 3. |
| | 411 | Shakespeare: Comedies and Histories | 3 |
| ENG 4 | 412 | Shakespeare: Tragedies and Romances | 3 |
| ENG 4 ENG 4 | 413 480 | Milton Seminar in English Liter- | , 3 ' 3 |
| | 481 | ature Seminar in American Lit- | 3 |
| | | erature | ı |
| | | , | |

| WRITIN | IG CO | DNCENTRATION REQUIREMEN 30 cred | | | |
|------------|------------------|--|---------|--|--|
| Reaui | red C | ourses 21 cred | dits | | |
| ENG | 200 | Methods of Critical Analysis | 3 | | |
| ENG | 330 | Critical Writing | 3 | | |
| ENG | 331 | Creative Writing | 3 | | |
| ENG | 401 | Linguistics and Grammar | 3 | | |
| Choo | | of the following: | | | |
| | 209 | Book and Magazine Editing | 3 | | |
| COM | M 250 | Journalism | 3 | | |
| Choo | se one | of the following pairs: | | | |
| ENG | 303 | American Literature to 1865 | 3 | | |
| and ENG | 304 | American Literature | ., 3 | | |
| LING | | 1865-1914 | | | |
| ENG | 304 | American Literature | 3 | | |
| and | | 1865-1914 | | | |
| ENG | 317 | Modern American | 3 | | |
| | | Literature | | | |
| ENG | 301 | English Literature: | 3 | | |
| | | Through the Neo-classic | | | |
| and | | Period | | | |
| ENG | 302 | English Literature: | 3 | | |
| | | Romantic through | , | | |
| | | Modern | • | | |
| ENG · | 302 | English Literature: | 3 | | |
| | | Romantic through | : | | |
| and | | Modern | | | |
| ENG | 318 | Modern British | 3 | | |
| | | Literature | | | |
| ENG | 305 | Literature of Western | 3 | | |
| | | Europe: To the Renais- | | | |
| and | | sancę , | | | |
| ENG | 306 | Literature of Western | 3 | | |
| | | Europe: Renaissance | | | |
| | | through Modern | | | |
| Electi | VOE | 9 cre | dite | | |
| | | e courses from one of the | | | |
| | g tracl | | | | |
| Creat | ive Wı | iting | | | |
| ENG | 332 | Advanced Creative Writing | 3 | | |
| | M <u>4</u> 31 | Screenwriting | 3 | | |
| or COM | M 324 | Writing for Radio and TV | 3 | | |
| | | Freelance Writing | 3 | | |
| or | | | • | | |
| ENG | 619 | Writing for the Magazine Market† | 3 | | |
| Critic | Critical Writing | | | | |
| ENG | 333 | Critical Writing for the Specialist | 3 | | |
| СОМ | M 459 | Journalism Field Studies | 3 | | |
| or COM | M-351 | Advanced Reporting | 3 | | |
| or | · | Free Lance Writing | 3 | | |
| or | | 0 | | | |
| COM | IVI 454 | News editing | 3 | | |

| ENG | 615 | Advanced Critical Writing† | 3 |
|-----------|------------------|--|----|
| or ENG | 300 | Technical Writing | 3 |
| Teacl | ning | - - | |
| ENG | 332 | Advanced Creative Writ- ing | 3 |
| or | 2 1 = | | |
| ENG | 615 | Advanced Critical Writ- ing† | 3 |
| ENG | 333 | Critical Writing for the Specialist | 3 |
| ENG | 617 _. | Modern Techniques of Composition† | .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.

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

| MINO | R REG | UIREMENTS 18 cred | dits ` |
|-------|-------|---|--------|
| ENG | 301 | English Literature through | 3 |
| ENG | 302 | the Neoclassical Period English Literature: Romantic through Modern | 3 |
| ENG | 303 | American Literature to | 3 |
| ENG | 304 | 1865 American Literature: 1865-1914 | 3 |
| ENG | 305 | Literature of Western Europe: To the | З |
| ENG | 306 | Renaissance Literature of Western Europe: Renaissance | 3 |
| Note: | • | through Modern the chairman's permission, ts of other English courses m | |

credits of other English courses may be substituted for two of the required courses in the minor.

CERTIFICATION REQUIREMENTS 43 credits Students who are interested in obtaining teacher certification in English must complete the following:

Academic Content Requirements

3 credits One course in speech arts or dramatics.

| Seco | ndary | Education (K-12) Requirem 40 cre | |
|------|-------|---|-----|
| EDUC | 403 | Culminating Field Experience | . 8 |
| HSC | 120 | Current Health Problems | 3 |
| PSY | 110 | General Psychology | 3 |
| rla | 329 | Foundations of Reading | 3 |
| rla | 330 | Reading Strategies for the Content Areas | 3 |
| SED | 301 | Curriculum and Its Implementation | ÷3 |
| SED | 302 | Discovering Your Teaching Self (K-12) | 3 |
| SED | 330 | Implementing Your Teaching Major (K-12) | 3 |
| SED | 340 | Exploring the Teaching Field | 1, |
| SED | 404 | Instructional Seminar for Student Teaching | 1 |
| TED | 310 | Educational Psychology: Adaptations and Interventions in the Classroom | 3 |

Plus one human relations course from the list on page 37.

Plus one professional preparation course from the list on page 38.

Courses

Unless otherwise noted, all courses are for 3 credits.

ENG 101-102 English as a Second Language: Fundamentals, I & II Basic reading and writing course, designed especially for the foreign student or the student whose primary or familiar language is not standard American English. 3 credits each semester

ENG/RLA 107 Basic Reading

Designed to develop and increase the student's reading, vocabulary, comprehension and study skills. The course also stresses flexible reading approaches applicable to various materials including the student's college texts.

Credits for this basic skills course are not. applicable toward degree requirements.

ENG 108 Basic Writing

The basic writing course is designed to emphasize the standard English sentence and the extension of a group of sentences into an organized unit.

Credits for this basic skills course are not applicable toward degree requirements.

ENG 110 Writing Effective Prose

Essential freshman writing course, designed to develop student's writing competency on the college level.

ENG 111 Advanced Writing Effective Prose

Designed to expand and extend critical reading and writing skills. Logical thinking is stressed as the basis for the various modes of inquiry. The skills practiced in this course should be easily transferrable to a student's major field of study.

ENG 120 Twentieth-Century Authors

Major works in modern ficition, drama and poetry. May include Conrad, Joyce, Woolf, Yeats, Lessing, Faulkner, Hemingway, Fitzerald, Eliot, Albee, Baraka, Camus, Hesse, Chekhov, Pirandello, Lorca, Kafka, Brecht.

ENG 130 The Short Story

Analysis of selected short stories by a variety of writers who have shaped and are shaping the genre: Bradbury, Hemingway, Baraka, Updike, Singer, Borges, Baldwin, Barthelme, Joyce, Kafka, Cheever, O'Connor, Oates, Poe, Hawthorne, Faulkner, James, Wright, Welty, and others.

ENG 200 Methods of Critical Analysis

An in-depth study of selected short stories, poems, and plays, with focus on practice in using precise literary terms and analytical and evaluative techniques.

ENG 201-202 English as a Second Language: Introduction to American Culture through Literature, I & II

Advanced course in written communication based on American literary works and designed for the foreign student or the student whose primary or familiar language is not standard American English. 3 credits each semester

ENG 207 Effective Business Writing

A skills course featuring technical report writing, letters, data sheets, abstracts and, other communication procedures.

ENG 208 The Bible and Literature

Examines the literary stature and influence of the Bible and the way authors utilize what they have read to strengthen their own creative efforts. Works by Dickinson, Twain, Nemerov, Louise Bogan, Margaret Walker, T.S. Eliot, Poe, others.

ENG 209 Book and Magazine Editing

A skills course in basic techniques of editing books and magazines. Designed for those interested in a publishing career and for the general reader and writer.

ENG 210 Modern Biography

Biographies and autobiographies: Van Gogh, Fitzgerald, Richard Wright, others; a study of the writer's purpose, procedure and style.

ENG 211 Modern Drama

Dramatists of Europe, England, America: Ibsen, Strindberg; Shaw, Pirandello, Lorca, O'Neill, Albee, Chekhov.

ENG 212 Contemporary Literature

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

ENG 214 Contemporary Drama

Theatre of the Absurd, Cruelty, Protest, Guerilla theatre; experiments in ritual and free drama such as "Dionysius in 69." Playwrights may include Adamov, Beckett, Genet, Ionesco, Frisch, Pinter, Albee, Baraka, Stoppard, Kopit, Van 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 modern science fiction (Bradbury, Vonnegut, Asimov, LeGuin, Delaney, Wells, Heinlein): fantasy for adults and kids (Lewis Caroll, C.S. Lewis, Marquez, Hesse, Tokein); and political satire and anti-utopias (Zamiatan, Orwell, Huxley).

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

The detective story, spy novel, gothic suspense tale: Poe, Conan Doyle, Christie, Sayers, Hammett, Chandler, Buchan, Ambler, Ian Fleming, others.

ENG 222 Crime and Punishment: Law in Literature

An examination of a wide range of literature with particular emphasis on its relation to questions and problems of civil and criminal law; may include works by Thoreau, Dickens, Camus, Dostoevsky, Wright, Solzhenitsyn, and others.

ENG 229 Novel and Film

Consideration of major novel-film adaptations, with emphasis on the challenge of transforming words into images; included may be **The Great Gatsby** (Fitzgerald-Clayton), **Great Expectations** (Dickens-Lean), **Jules and Jim** (Roche-Truffaut), others.

ENG 230 Story and Film

Study of short works, like short story, myth, fable, and their film adaptations; works may include "The Sentine!"/2001: A Space Odyssey (Clarke-Kubrick), Blow-Up (Cortazar-Antonioni), "The Turn of the Screw"/ The Innocents (James-Clayton), and experimental short films like "Crazy Quilt."

ENG 300 Writing Technical Papers and Reports

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

British prose and poetry to the death of Elizabeth: Spenser, Sidney, Raleigh; beginnings of modern English fiction, sonneteers, pastoral writers, others; **Utopia**.

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

Early eighteenth-century poetry, prose, satire: MacFlecknoe, The Rape of the Lock, Gulliver's Travels, others; rise of the novel.

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

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 Nineteenth-Century European Novel

Major figures in the development of the novel in Europe: Balzac, Flaubert, Dostoevsky, Tolstoy, others.

ENG 323 Twentieth-Century European Novel

Readings in representative novelists, including Proust, Mann, Hesse, Kafka, Camus, Moravia, Solzhenitsyn.

ENG 330 Critical Writing

Analysis of writings to uncover principles and techniques of expressive communication; training in writing critical papers, book and film reviews, formal and informal essays.

ENG 331 Creative Writing

Workshop leading to the development of imaginative power and originality in writing poetry, fiction, drama, film scripts.

ENG 332 Advanced Creative Writing

A second semester of creative writing providing an opportunity for further specialization in the modes of imaginative writing.

ENG 333 Critical Writing for the Specialist Seminar introduces student to his area of specialization in writing in an advanced context which provides close individual supervision and also exposes the student to all kinds of analytical writing. The technical reporter, for example, will learn from the film critic, the journalist from the copywriter.

ENG 335 Modern American Jewish Authors

Study and interpretation of modern literary works describing the Jewish experience in America. Authors include Philip Roth, Bernard Malamud, Edward L. Wallant, Chaim Potok, Saul Bellow, Delmore Schwartz, others.

ENG 399 Selected Topics

Study of special areas of literary concern not covered in depth in any existing courses. Topics vary from semester to semester in response to student 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

Representative works of Chaucer, with emphasis on The Canterbury Tales, examined against the background of the period.

ENG 411 Shakespeare: Comedies and Histories

Study of such plays as Richard II, Henry IV, A Midsummer Night's Dream, The Merchant of Venice and Much Ado About Nothing.

ENG 412 Shakespeare: Tragedies and Romances

Study of such plays as Hamlet, Macbeth, Romeo and Juliet, Othello, King Lear, The Tempest.

ENG 413 Milton

Study of dramas, lyric poems, epics, prose works of John Milton with emphasis on **Comus**, "Lycidas," **Paradise Lost, Aeropagitica**; focus is on Milton's relevance to our time.

ENG 420 Literary Criticism

Major literary theories and practices from Aristotle to the present with emphasis on contemporary application. Experience in practical analysis and writing is featured.

ENG 421 Literature and Psychoanalysis

Study of literature through application of depth psychology; analysis of short works such as **Oedipus Rex** and the short stories of Poe, Kafka, Melville and Hawthorne.

ENG 422 The Psychological Novel

The relationship between depth psychology and literature and the use of psychoanalysis in interpreting and understanding the novel. Authors may include Gide, Woolf, Joyce, Beckett and others.

ENG 423 Myth, Symbol and Literature

Study of symbol, ritual and myth formation and primitive, classical, biblical and social symbols and myths as they appear and function in literature.

ENG 480 Seminar in English Literature

Designed to help students study, in depth, a single British author, or work, chosen by the instructor.

ENG 481 Seminar in American Literature Course to help students study, in depth, a

single American author, or work, chosen by the instructor.

ENG 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, M. Edelstein, H.L. Ellis, D. Li

Associate Professors—V. Caporale, J. Drabble, C. Gruber, R. Miller, I. Nack, T. Ripmaster (chairman)

Assistant Professor-G. Satra

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 cre | | | |
|---------------------------|------|--------------------------|---|
| Hist | .201 | Rise of Modern Europe I | 3 |
| Hist | 202 | Rise of Modern Europe II | 3 |
| Hist | 205 | American History I | 3 |
| Hist | 206 | American History II | 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 18 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 | | |

Note: No more than 18 credits, including 6 credits of American and European history and 3 in non-Western history, can be in any one area of concentration; i.e., American, European or non-Western history. This means that only 4 of the 6 elective courses can be in any one area.

CERTIFICATION REQUIREMENTS 64 credits

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

Academic Content Requirements

24 credits

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

| AAAS 110 | Afro-American History | 3 |
|--------------|--|---|
| AAAS 111 | to 1865 Afro-American History since 1865 | 3 |
| AAAS 300 | The Black Family | 3 |
| AAAS 315 | Afro-American Back- ground for Teachers | 3 |
| One of the t | following economics courses: | |
| ECON 201 | Macroeconomic Prin- ciples | 3 |
| ECON 202 · | Microeconomic Prin- ciples | 3 |
| ECON 230 | Economics of the Environ- ment | 3 |

THE SCHOOL OF HUMANITIES

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

Completion of the 40-credit series, "Subject Field Certification (K-12) Requirements," listed on page 37.

40 credits

Courses

Unless otherwise noted, all courses are for 3 credits.

European History

HIST 110 Heritage of the Ancient World

An introduction to characteristic ideas and institutions of the Ancient World through the study of significant developments in the history of Egypt, the Near East, Greece and Rome.

HIST 120 Heritage of the Medieval World

Principal issues in the formation of European civilization.

HIST 130 The Modern World

Focus is on broad trends and controversial issues. Among the problems studied are nationalism and imperialism, the coming of the two world wars, revolutions and totalitarianism, and the impact of science and industrialization on the human condition.

HIST 201 Rise of Modern Europe

The first of a two-semester sequence required of history majors and open to education majors. Deals with the institutions and ideas representative of the cultures of medieval and early modern Europe with an introduction to the classical and religious foundations of medieval civilization.

HIST 202 Rise of Modern Europe II

The second of a two-semester sequence required of history majors. Is also open to education majors. The course, designed to give broad coverage of the shaping of modern Europe, traces political, social, intellectual and economic trends from 1648 to the present.

HIST 231 Greek Civilization

Covers the cultural background of ancient Greece and the rise and fall of Athenian democracy. Thucydides and other commentators are used for a critical study of the great issues of Greek civilization.

HIST 232 The Roman Republic

A study of Roman history with emphasis on internal political developments. Focus is on Roman originality in developing concepts. of constitutional government and rule of law. The Roman political system, adopted as a model by the founding fathers of the United States, is evaluated in terms of its success and failure in solving the complex problems of a rapidly expanding economy, and as a political influence.

HIST 233 Europe in the Middle Ages -

The early Middle Ages and the emergence of medieval order; fact and theories of the relations between church and state; Europe in the High Middle Ages; the development of secular and urban society; formation of nation states; the artistic and intellectual culture of castle, cathedral and university.

HIST 241 History of Christianity

A history of Christianity from the ancient world to the present, primarily in its European setting. Focus is on the reciprocal impact of the forms, thought and organization of the Christian religion and society and culture.

HIST 301 Social History of Modern Europe

Covers the evolution of European society from a "pre-industrial society" in the eighteenth century, through an "industrial society" in the nineteenth and twentieth centuries, to a "post-industrial society" in the late twentieth century and introduces students to the objectives, methodology and sources of social history.

HIST 310 Modern France since 1815

The development of France, one of the first democratic republics, from the Bourbon Restoration in 1814 through the Fifth Republic today, featuring a multi-faceted approach to French history. Emphasis is on continuity versus change, and stability versus instability. The course explores the reasons for France's decline and later resurgence as a European power.

HIST 330 Russia: Tsars and Peoples

An examination of the society and culture of medieval Russia is followed by an inquiry into the conditions leading to the rise of the state of Muscovy and the empire of the Tsars into the nineteenth century.

HIST 331 Russian Revolution

After an inquiry into the causes and effects of the revolutions of 1905 and 1917, a study is made of the Soviet regime under Lenin, Stalin, Malenkov, Khrushchev, Brezhnev and Kosygin, Attention is given to internal industrial, agricultural, social, political and cultural development as well as to the role of the Soviet Union in world affairs.

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HIST 332 Tudor-Stuart England

Explores the dynamic changes wrought in the England of Henry VIII 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 British History

Surveys key political developments in Great Britain since the 1780's. Main emphasis is on the development of those social, economic, religious, educational and other institutions which produced, in addition to regional differences, modern British society.

HIST 334 The Italian Renaissance and Its Influence on Europe

The convulsions of the Renaissance and the Reformation—which, by attacking the medieval system of ideas and instruction, gave birth to the modern conception of man, life, society and nature—are analyzed by focusing on the city of Florence. Particular emphasis is placed on the shaping of two new types of human personality: the humanistic and the puritanical.

HIST 335 The Scientific Revolution

Covers the period from the Renaissance to the Enlightenment and shows how changing concepts about the position and importance of the earth within the solar system and the universe affected an entire style of scientific and philosophic thinking.

HIST 336 Europe in the Age of Revolution: 1789-1848

Examines the transformation of Europe between 1789 and 1848 in terms of what has been called the "dual revolution"—the French Revolution of 1789 and the contemporaneous Industrial Revolution in Britain. Special emphasis placed on the revolutionary movements from 1789 to 1848 which give this period a certain unity.

HIST 337 Triumphant Materialism: Europe 1848-1914

European history from the close of the revolutionary era of 1848 to the outbreak of the First World War. Major emphasis is on liberalism and nationalism; imperialism and world politics; the late phases of the industrial revolution; cultural developments, and the coming of the war.

HIST 338 Europe since 1914

Major political, economic, social and intellectual developments in Europe since 1914. The internal and diplomatic history of the Great Powers, the economic and political transformation of Europe under the impact of an American-Soviet rivalry, and the intellectual record of the age are discussed.

HIST 340 Germany from Bismarck through Hitler

Covers Germany's history from 1848 to 1945 with an emphasis on Germany's involvement in the wars from the Franco-Prussian War to World War II.

HIST 342 Soviet Foreign Policy

Examines the history of Soviet foreign policy from the Revolution in 1917 to the present and traces the forces, events, personalities and issues that have interacted to produce the patterns of Soviet behavior in the international arena during the times of Lenin, Stalin, Khrushchev and Brezhnev.

HIST 343 England in the Age of the American Revolution

A social and political history of England, 1740-1820. Explores the impact of three revolutions—the Industrial, the American and the French—on the older institutions of the realm. Students examine the Industrial Revolution, analyze the varied responses of the political leaders, the new radicals and the Irish patriots to the American and French Revolutions, and reflect on how this age produced a new economy, a new society and a new form of politics.

HIST 430 The French Revolution and the Napoleonic Era

Examines crucial periods such as the Revolution of 1789, the Year II—the revolutionary dictatorship and the Terror—and the Napoleonic era. While political history is stressed, great emphasis is placed on social history.

HIST 432 Intellectual History of Ancient and Medieval Civilizations

An examination of the artistic, practical (ethical and political), theoretic and religious thought of ancient and medieval civilization in the West.

HIST 442 Industrial Revolution in Europe

The central theme is the evolution of Western European economic dominance in the modern era. Particular emphasis is given to the Industrial Revolution, the growth of free trade, overseas economic expansion, the export of capital, external completion and social economic reform.

United States History

HIST 205 American History I: Origins to Reconstruction

The first of a two-semester sequence required of history majors. Covers American history from the beginning of exploration through Reconstruction. Open to education majors.

HIST 206 American History II: Reconstruction to the Present

The second of a two-semester sequence required of history majors. Covers the period from Reconstruction to the present. Open to education majors.

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, the League of Nations and concludes with an examination of the "booming twenties" and the Great Depression.

HIST 323 From New Deal to Cold War (Since 1933)

An in-depth examination of the "Great Depression" of the 1930's with an appraisal of New Deal domestic and foreign policies, followed by a study of World War II and the United States' role in world affairs through the post-war decades. Changing political, social and economic issues confronting the post-war generation are assessed against the background of world developments.

HIST 324 Social and Cultural History

Emphasis on the developing ways of life of the American people and the ideas and elements of culture which have influenced American society.

HIST 326 Foreign Relations to 1898

Explores the techniques by which the United States expanded from a string of weak and isolated coastal colonies at the end of the eighteenth century to a great transcontinental power by the end of the nineteenth century. The "imperial vision" that guided the makers of foreign policy is analyzed, and the relationship between domestic developments and foreign policy is stressed.

HIST 327 Foreign Relations since 1898

Traces developments in United States foreign policy from emergence as a world power at the opening of the twentiethcentury to her position of world dominance after the Second World War. The ideological underpinnings of American strategy and tactics on the world stage, U.S. role in major twentieth-century wars—hot and cold—and the current confusion in U.S. foreign policy are stressed.

HIST 328 Economic History: Issues of Expansion and Change

Emphasizes economic elements, including the use of human and natural resources, in the historic growth of the United States from colonial to recent times.

HIST 403 Interpreting U.S. History

Primarily for students with a special interest in American history. Provides an opportunity to critically examine areas in which important reinterpretations have been made or in which controversy exists among scholars.

HIST 425 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.

Asian History

HIST 140 Chinese Civilization

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.

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HIST 270 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 271 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 150 Latin American Civilization

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 back-: ground 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 revoluntionary change provides the conceptual tools with which to compare revolutions in different historical and cultural settings. Major attention is focused on an intensive anaylsis of selected major revolutions.

HIST 461 Colloquium

Topics vary from year to year. Students read widely on the selected topics and meet to discuss their reading.

HIST 480 Seminar

Topics chosen and announced by the faculty. Readings, reports and papers related to specific topics. 1-3 credits

Note: See also courses listed under Humanities, p. 60.

HIST 499 Independent Study

As approved and to be arranged. 1-3 credits

Department of Languages and Cultures

Professors—C. Barry, W. Rubio, O. Saa Associate Professors—O. de la Suareé (chairman), A. Sully

Assistant Professors—A. Aguirré, M. Barasch, D. Chao, G. Nussenbaum

The aims of the Department of Languages and Cultures are fourfold: 1) to further the development of students majoring or minoring in the department (presently, majors and minors are offered in French and Spanish); 2) to provide training in bilingual/bicultural education as well as in English as a second language, leading to endorsement as a teacher in those fields in the State of New Jersey and elsewhere; 3) to provide courses which may be used in partial fulfillment of the liberal studies requirement in the humanities; and 4) to offer, whenever possible, electives in second languages.

Career opportunities stemming from a language major, an endorsement in bilingual/bicultural education or in teaching English as a second language may be found in business or in human service careers where bilingualism is valued. Career opportunities may also be found in research, editing, translation, technical writing, airline positions, the UN, and others. Teaching opportunities for language majors are to be found in colleges and secondary schools, in FLES (Foreign Language Elementary School) programs, and in bilingual/bicultural and teaching English as a second language programs.

Junior Year Abroad Program

Students interested in the Junior Year Abroad program should make an appointment with their major advisor who will give them the information they need about eligibility, procedures to be followed, types of programs approved by the College, credit transfers, etc. Semester programs are also available.

French

Prerequisites

Required for 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.

| MAJ | OR REG | QUIREMENTS 31 cre | dits |
|-------|--------|--------------------------|------|
| FR | 113 | Intermediate French II | 4 · |
| FR | 222 | Advanced French Con- | 3 |
| | | versation and Composi- | |
| · · · | | tion I | • |
| FR | 223 | Advanced French Con- | 3 |
| | | versation and Composi- | |
| | | tion II | |
| FR | 230 | Masterpieces of French | 3 |
| | • | Literature from Rabelais | |
| | | to Robbe-Grillet | |

| FR | 240 | Cultural Heritage of France | 3 |
|-------------------|-------------------------------|--|---------------------------|
| or FR | 241 | Contemporary French | 3 |
| · | 241 | Culture and Problems | |
| FR | 331 | The Twentieth-Century French Novel | 3 |
| abo som Cou | ve the e of the rses in | r French literature courses 200-level may be substitute above courses by advise French literature in trans applied to major requiren | ed for ment. lation |
| | ose ar Ing the | n additional 12 credits following: | from |
| FR | 219 | Commercial French | 3 |
| FR FR | 220 320 | Translating I Interpreting French Liter- | 3 3 3 |
| FR | 333 | ature The Modern French Theatre | 3 |
| FR | 334 | French Literature to 1600 | 3 3 |
| FR | 336 | Great French Poetry from Villon to Our Times | 3 |
| FR | · 337 | French Literature of Can- ada, the Antilles and Africa | |
| FR | 350 | Advanced French Phonetics and Grammar | , 3 |
| FR · | 351 | Tutorial Laboratory in French | 3 |
| FR | 399 | Selected Topics | 3 3 |
| FR | 432 | The Nineteenth-Century French Novel | 3 |
| FR | 435 | Seventeenth-Century French Tragedy and | 3 |
| FR | 438 | Comedy Literature of the French Enlightenment | 3 |
| FR | 480 | Senior Seminar | 3 3 |
| FR | 499 | Independent Study | 3 |
| MINC | or Reg | UIREMENTS 19 cr | edits |
| FR | 113 | Intermediate French II | 4 |
| FR | 222 | Advanced French Con- versation and Composi- tion I | 3 |
| or | | , | |
| FR | 223 | Advanced French Con- versation and Composi- | 3 |
| FR | 230 | tion II Masterpieces of French Literature from Rabelais | 3 |
| FR | 240 | to Robbe-Grillet Cultural Heritage of France | · 3 |
| or | | | |
| FR | 241 | Contemporary French Culture and Problems | 3 |

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

| FR | 219 | Commercial French | 3 |
|----|-----|---------------------------------------|---|
| FR | 220 | Translating I | 3 |
| FR | 320 | Interpreting French Lit- erature | 3 |
| FR | 331 | The Twentieth-Century French Novel | 3 |
| FR | 333 | The Modern French Theatre | 3 |

*One hour lab work per week required

†Students planning to take all 3 levels must register for all levels during registration period.

| Note | Cours | es in French literature in tran | |
|------|-------|---|---|
| FR | 499 | Independent Study | 3 |
| FR | 480 | Senior Seminar | 3 |
| | ۰. | Enlightenment | • |
| FR | 438 | Comedy Literature of the French | 3 |
| • | | French Tragedy and | |
| FR | 435 | Seventeenth-Century | 3 |
| | | French Novel | |
| FR | 432 | The Nineteenth-Century | 3 |
| FR . | 399 | Selected Topics | 3 |
| | | Phonetics and Grammar | Ŭ |
| FR | 350 | Africa Advanced French | 3 |
| | | ada, the Antilles and | Ũ |
| FR | 337 | French Literature of Can- | 3 |
| FR | 336 | Great French Poetry from Villon to Our Times | 3 |
| FR | 334 | French Literature to 1600 | 3 |
| | | | |

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

CERTIFICATION REQUIREMENTS 43 credits Students interested in obtaining teaching certification in French must complete the following: ER 350 Advanced French 3

FR 350 Advanced French 3 Phonetics and Grammar The 40-credit series, "Subject Field Certification (K-12) Requirements," listed on page 37.

Courses .

All courses are for 3 credits unless otherwise noted.

FR 109 Introduction to French Culture and Language

Designed primarily to introduce the student to the culture of France across the ages. Cultural material is presented in English. The student's ability to understand basic and simplified French and speak at a "threshold level" is stressed.

FR 110 Basic French I*

Using oral modern French, this course provides the student with basic fluency in contemporary everyday French conversation. Reading and writing skills are developed logically from an aural-oral base. Prerequisite: 0-1 year high school French 4 credits

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 4 credits

FR 112 Intermediate French 1*

Aural-oral presentation of such topics as travel, student life and problems, careers, sports and games, industry and the fine arts. Develops reading and writing skills beyond the basic level.

Prerequisite: FR 111, or two years of high school French or equivalent 4 credits

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 4 credits

FR 115. French Mini Course I†

FR 116 French Mini Course II

FR 117 French Mini Course III

An introductory series of courses in the language and culture of the French-speaking world. The aim is to develop the student's ability to understand, read, write and speak basic and simplified French. The basics of pronunciation and vocabularly and sentence structure are stressed; an introduction to French culture is included. Each mini course: 1 credit

FR 118 French for Students in the Natural Sciences

Through readings dealing with current scientific topics and selections from contemporary writings of French experts in various scientific and technological fields, students develop skill in reading current French scientific journals and publications independently. Includes a review of the relevant essentials of French grammar and practice in translating scientific texts into English. Prerequisite: Intermediate-level proficiency

FR 219 Commercial French

Training in understanding and drafting French commercial correspondence (letters and telex) and practice in oral communication in everyday secretarial situations. The course also familiarizes secretaries with those aspects of contemporary French civilization which are useful in daily work.

Prerequisite: Intermediate-level proficiency

FR 220 Translating I

An introductory course in the art and practice of translating from English into French and from French into English.

Prerequisite: Intermediate-level proficien-

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 and Translation

Through reading and critical discussion, students confront the ideas and tendencies reflected in the works of the major French writers of the twentieth century. Among the major writers represented are Proust, Gide, Colette, Beckett, Robbe-Grillet and Prévert.

FR 320 Interpreting French Literature

A theoretical presentation of the French method of stylistic analysis known as "explication de texte" and the application of this method to selected texts from various periods of French literature. Prerequisite: FR 222 or equivalent

FR 331 The Twentieth-Century French Novel

A study of the novel of twentieth-century France, with particular attention to such authors as Gide, Proust, Mauriac, Sartre, Camus, Robbe-Grillet. Prerequisite: FR 230 or equivalent

FR 333 The Modern French Theatre

Major dramatists and movements in France from the beginning of the century to the present. Emphasis on French existentialism through the theatre of the absurd. Prerequisite: FR 230 or equivalent

FR 334 French Literature to 1600

A study of the literature of medieval France. Prerequisite: FR 230 or equivalent

FR 336 Great French Poetry from Villon to **Our Times**

A study of the French poetic tradition and major poetic works from the late medieval period to post-surrealism. Prerequisite: FR 230 or equivalent

FR 337 French Literature of Canada, the Antilles and Africa

Introduces students to the major genres, themes, and authors of Francophone literature outside of metropolitan France. Emphasis is on the intrinsic literary value of black and Canadian literature expressed in French and the cultural and social dimensions of these literatures. Prerequisite: FR 230 or equivalent

FR 350 Advanced French Phonetics and Grammar

The French phonetic system, phonetic analysis and transcription, extensive practice in pronunciation, intonation, and diction. Practice in simple discourse and the oral reading of prose, poetry and dramatic literature. A systematic study of French grammar at an advanced level. Prerequisite: FR 113 or equivalent

FR 351 Tutorial Laboratory in French

Designed to provide experience, training and academic preparation for majors or minors who seek increased fluency and grammatical expertise. To be applied in Basic I level of French classes. Prerequisite: At least second-year status in the major

FR 399 Selected Topics

Enrichment courses of special interest to French majors or minors. Chosen through faculty and student discussion. Prerequisite: FR 230 or equivalent

FR 432 The Nineteenth-Century French Novel

The French novel from Hugo to Zola. Analysis of the genre in the movements of romanticism, realism and naturalism. Readings from Hugo, Stendhal, Balzac, Flaubert, Zola and Maupassant.

Prerequisite: One 300-level course in French literature

FR 435 Seventeenth-Century French **Tragedy and Comedy**

The French classical tragedy, tragi-comedy and comedy. The major plays of Corneille, Racine and Molière in their contemporary and universal significance. Prerequisite: FR 230 or equivalent

FR 438 Literature of the French Enlightenment

The transition from French classicism to the eighteenth-century revolt against authority and tradition. Selections from Montesquieu, Diderot, Voltaire, Beaumarchais. Introduction to the eighteenth-century French novel and psychological drama.

FR 480 Senior Seminar

In-depth study of a selected author or theme; e.g. women in French literature. Prerequisite: At least 21 credits completed in the major.

FR 499 Independent Study

As approved and to be arranged 1-3 credits

Spanish

Prerequisites

Required for entrance to the Spanish major are three or four years of high school Spanish, or a minimum of 580 in CEEB, or a near native fluency. Advanced placement may be obtained by standard examination or by decision of the Spanish Studies Committee.

| MAJOR REG | UIREMENTS 31 | credits |
|-------------------|---|----------|
| SPAN 113 | Intermediate Spanish II | . 4 |
| SPAN 221 | Spanish: The Spoken Language | · 3 |
| SPAN 222 | Advanced Spanish Corversation and Composition | |
| SPAN 230 | Introduction to Spanish Literature I, | 3 |
| or | | |
| SPAN 231 | Introduction to Spanish Literature II | 3 |
| SPAN 240 | Hispanic Culture I: Spair | n, 3 |
| or | | |
| SPAN 241 | Hispanic Culture II: Spanish America | 3 |
| DI LA ANA ANA ANA | mus furnes a male of the shall. | أسحاب بم |

Plus one course from each of the following five groups:

Golden Age

| Golde | en Age |) | |
|----------------------|------------|--|-------------|
| SPAN SPAN SPAN | 331 435 | The Golden Age of Spain Cervantes and His Age Spanish Seminar: Quevedo, The Spanish Mystics, The Picaresque Novel, others | 3 3 3 |
| Ninete Litera | | and Twentieth-Century | |
| SPAN | 330 | Spanish Literature of the Twentieth Century | . 3 |
| SPAN | 334 | Romanticism in Spain: Prose and Poetry | 3 |
| SPAN | 434 | The Nineteenth-Century Novel of Spain | 3 |
| Spani | sh Am | erican Literature to 1900 | |
| SPAN | | 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 |
| Spani | sh Am | erican Literature: Modern | |
| SPAN | 431 | The Modern Literature of Spanish America | 3 |
| SPAN | | The Novel in Spanish America II | 3 |
| SPAN | | Seminar: Spanish America | 3 |
| • | sh Dra | • | |
| SPĄN | 332 | The Drama of the Golden | 3 |
| SPAN | 335 | Modern Spanish Ameri- can Drama | 3- |
| SPAN | 337 | The Romantic Theatre in Spain | 3 |

| MINOR REQ | UIREMENTS 18 cr | edits |
|----------------|---|------------|
| SPAN 221 | Spanish: The Spoken Language | • 3 |
| or | | |
| SPAN 222 | Advanced Spanish Con- versation and Composi- tion | 3 |
| SPAN 230 | Introduction to Spanish Literature I | , 3 |
| or | | |
| SPAN 231 | Introduction to Spanish Literature II | 3 |
| SPAIN 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: | 3 |
| | | Quevedo, The Spanish | |
| | | Mystics, The Picaresque | |
| | | Novel, others | |

Spanish American Literature to 1900

| SPAN 430 | The Literature of Spanish | 3 |
|----------------------|--|-----|
| SPAN 432 | America to Modernism The Novel in Spanish | . 3 |
| 017111 40 <u>,</u> 2 | America I | Ŭ |
| SPAN 436 | The Modern Spanish American Essay | 3 |
| | | |

Spanish Drama

| SPAN 332 | The Drama of the Golden | 3 |
|----------|------------------------------|---|
| SPAN 335 | Age Modern Spanish Ameri- | 3 |
| . ' | can Drama | - |
| SPAN 337 | The Romantic Theatre in | З |
| | Spain | |
| , | · · · · | |

CERTIFICATION REQUIREMENTS

Students interested in obtaining teaching certification in Spanish must complete the 40-credit series, "Subject Field Certification (K-12) Requirements," listed on page 37.

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.

One hour lab work per week required.

†Students planning to take all 3 levels must register for all levels during the registration period.

SPAN 110 Basic Spanish I*

Introduces the student to the basic elements of the Spanish language as used in contemporary Spanish conversation in everyday situations. The student is also exposed to basic forms of the written language and carefully graded readings aimed at widening his working vocabulary. Prerequisite: 0-1 year high school Spanish 4 credits

SPAN 110 Basic Spanish I (for health profession's)

Introduces the student to the basic elements of the Spanish language as used in everyday medical/health-care situations in which conversation in Spanish is necessary. The student is also exposed to basic forms of the written language and carefully graded readings aimed at widening his working medical vocabulary.

SPAN 111 Basic Spanish II*

Aims at increasing the student's ability to use basic forms of oral communication in Spanish through constant use of the everyday idiom. Carefully graded practice in reading and writing supplements the conversational aspects of the course. Prerequisite: SPAN 110 or equivalent 4 credits

SPAN 112 Intermediate Spanish I*

A thorough review of basic conversation followed by an aural-oral presentation of such topics as travel, student life, careers, sports; fine arts, industry, politics, etc. A review of the essentials of Spanish, development of a larger vocabulary, including idioms, discussion of selected short stories and other selected areas of interest to students are included.

Prerequisite: SPAN 111, or two years of high school Spanish or equivalent 4 credits

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, Cubà, Colombia, Argentina, etc. are integrated into the COURSE.

Prerequisite: SPAN 112 or equivalent 4 credits

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 4 credits

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

1.1.1

SPAN 115 Spanish Mini Course It SPAN 116 Spanish Mini Course II SPAN 117 Spanish Mini[®]Course III

The Spanish mini courses are introductory courses in the language and culture of the Hispanic world. Their aim is to develop the student's ability to understand, write and speak basic and simplified Spanish. The basics of pronunciation and vocabulary as well as those of sentence structure are combined with an introduction to Hispanic culture as it exists in the United States. Each mini course: 1 credit

SPAN 118 Spoken Spanish for Tourists

Develops the student's ability to speak, understand and read basic and simplified Spanish.

SPAN 120 Intensive Spanish I

SPAN 121 Intensive Spanish II

A concentrated course in first- and secondyear Spanish designed to develop the student's ability to read, write, understand, and speak everyday Spanish. Covers the basics of vocabulary, pronunciation and sentence structure. Readings and discussions enable the student to acquire the tools needed to master conversational skills. Each course: 3 credits

SPAN 198 Intensive Course in **Conversational Spanish 1**

SPAN 199 Intensive Course in Conversational Spanish II

An intensive course in both elementary and intermediate Spanish 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 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

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 own writing. Prerequisite: Intermediate-level proficiency

SPAN 230 Introduction to Spanish Literature 1

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. Represent-ative works of Hostos, Martí, Henriquez, Ureña, Loynaz, Lloréns Torres, Brull, Palés Matos, Florit, Guillén, del Cabral, Marqués, Bosch, Carpentier, Laguerre, others.

SPAN 330 Spanish Literature of the **Twentieth Century**

Selective study of major literary figures and significant trends in twentieth-century Spanish literature. Emphasis on such figures as Baroja, Unamuno, Azorin, Valle-Inclán, Ortega y Gasset, Benavente, Pérez de Avala, 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, Arriví, Solórzano, Dragún and Villaurrutia. Prerequisite: Intermediate-level proficiency

SPAN 336 Modernismo

A study of the modernismo literary movement in Spanish America, from its beginning in 1882 to its conclusion in, approximately, 1917. Includes representative works of Marti, Gutiérrez Nájera, del Casal, Silva and Darío, who make up the so-called first generation of modernist writers; Darío, Lugones, Herrera y Reissig, Valencia, Chocano, Nervo, Diaz Rodriguez, Reyles and others who comprise the second generation

Prerequisite: Intermediate-level proficiency

SPAN 337 The Romantic Theatre in Spain

The emergence and development of the romantic theatre in Spain; in-depth study of such works as Don Alvaro o la fuerza del sino, El Trovador, Don Juan Tenorio and Los amantes de Teruel.

Prerequisite: Intermediate-level proficiency

SPAN 350 History of the Spanish Language

A study of the development of romance into the various Hispanic languages and dialects. Special emphasis is given to Castilian and to the Spanish of Spanish America. A basic knowledge of Spanish is recommended.

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 Essav

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, Henriquez Uriña, Picón Salas, Arciniegas, Mariátegui, others.

Prerequisite: Completion of one 300-level course in Spanish

SPAN 480 Seminar: Spanish America

Puerto Rican literature: José Martí, Rubén Darío, others. Prerequisite: One 300-level course in

Spanish American literature

SPAN 481 Seminar: Spain

An in-depth study of a selected author or theme, such as Quevedo, the Spanish Mystics, the picaresque novel, others. Prerequisite: One 300-level course in Spanish literature

SPAN 499 Independent Study

As approved by the department. 1-3 credits

Teaching Endorsements

To obtain endorsements 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 24 credits EDUCATION . TBED 301 Theories and Practices in Bilingual Education and F.S.L TBED 303 Social and Psychological

| 1020 | 000 | Development of the Bi- | Ŭ |
|------|-----|-----------------------------|---|
| | | lingual Child | |
| TBED | 304 | Curriculum Development | 3 |
| | . • | and Evaluation in Bi- | |
| | | lingual Education | |
| TBED | 305 | Language and Culture | 3 |
| | | of Hispanic Peoples | |
| TBED | 309 | Introduction to Linguistics | 3 |
| TBED | 318 | Field Experience | 3 |
| | | (Spanish) | |
| or | | | |
| TBED | 319 | Field Experience (English) | 3 |
| tbéd | 402 | Methodology of Second | 3 |
| | | Language Teaching | |
| | | | |

Plus one bilingual/bicultural course or practicum.

ENGLISH AS A SECOND LANGUAGE

- 30 credits TBFD 301 Theories and Practices in . 3 **Bilingual Education and** E.S.L. Language and Culture TBED 302 3 of Hispanic Peoples TBED 303 Social and Psychological 3 Development of the Bil-
- ingual Child TBED 305 Language and Culture 3 of Caribbean Peoples
- TBED 309 Introduction to Linguistics 3
- TBED 319 Field Experience (English) 3 3
- ENG 401 Linguistics and Grammar
- 402 Development of the Eng-ENG lish 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.

3

3

Unless otherwise noted, all courses are for 3 credits.

TBED 301 Theories and Practices of Bilingual Education and English as a Second Language

Examines the history of bilingual education in the U.S.A. and discusses the basic philosophy of bilingual education through an analysis of various known models of bilingual programs.

TBED 302 Language and Culture of **Hispanic Peoples**

Deals with the linguistic, socio-political and cultural aspects of the Spanish-speaking world. The history of the Iberian penninsula, the colonization of Latin America and its subsequent struggle for independence, and the language and culture of the Hispanic people who have immigrated to the United States are covered.

TBED 303 Social and Psychological Development of the Bilingual Child

Examines the problems faced by Hispanic children in urban American schools as a result of linguistic, cultural, social and psychological factors.

TBED 304 Curriculum Development and Evaluation in Bilingual Education

A critical analysis of current models of bilingual/bicultural programs. Students are guided in the development of bilingual materials in their fields of interest. Creative use of audio visual materials is stressed.

TBED 305 Language and Culture of **Caribbean** Peoples

Examines linguistic, cultural and social factors affecting the psychological and intellectual development of Hispanic children of the Caribbean as they develop in their natural physical and social environment.

TBED 309 Introduction to Linguistics

Provides basic information about the analysis and description of language and how human beings use language to communicate with one another, and familiarizes students with the linguistic terminology needed for more specialized linguistic courses.

TBED 318 Field Experience (Spanish)

A field experience in a bilingual school program approved by the Bilingual Office of the College, one full day per week for the semester, arranged by the College. The student serves as observer and teacher's aide. Emphasis is on participation in a bilingual teaching situation. In addition, practicum seminars are conducted in alternate weeks.

Prerequisites: Three courses in the program and prior application with the Office of Field Laboratory Experiences

TBED 319 Field Experience (English)

A field experience in a bilingual school program approved by the Bilingual Office of the College, one full day per week for the semester, arranged by the College. The student serves as observer and teacher's aide. Emphasis is on participation in a bilingual teaching situation. In addition, practicum seminars are conducted in al-. ternate 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. 4 credits

CHIN 111 Basic Chinese II*

A continuation of Basic Chinese I. Equal attention given to speaking, reading and writing. Writing consists of exercises in calligraphy and translation of simple sentences. Students are taught how to use a Chinese-English dictionary.

Prerequisite: CHIN 110 or equivalent 4 credits

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 4 credits

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. 4 credits

CHIN 115 Chinese Mini Course I† CHIN 116 Chinese Mini Course II CHIN 117 Chinese Mini Course III

Designed for beginners who are interested in but reluctant to study the Chinese language. Contains three levels in sequence. A student earns one credit at each level completed. Provides students with some basic knowledge of Chinese characters, pronunciation, grammar and sentence patterns.

Each mini course: 1 credit

CHIN 120 Conversational Chinese

Designed to meet the needs of students who have completed basic and in-termediate Chinese language courses and who desire to continue learning this language. Particular attention paid to improving speaking ability.

Prerequisite: CHIN 113 or equivalent

CHIN 198 Intensive Course in Conversational Chinese I

CHIN 199 Intensive Course in **Conversational Chinese II**

Designed for students who desire to master the Chinese language as quickly as possible. Students learn characters, grammar and various sentence patterns. Equal attention is given to reading, speaking and writing. Since fluency in speaking and facility in reading Chinese can only be achieved by constant practice, students must practice intensively. 3 credits each

*One hour lab work per week required. †Students planning to take all 3 levels must register for all levels during registration period.

CHIN 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 Kuo-yo, 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

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 both student interest and the best understanding of the mind and thought of Asian people. Among the authors studied are Wu Ch'eng-En, Feng Meng-lung, LiPo, Ts'ao Hsueh-ch'in, King Shingtan, Murasaki, Kanami, Seami, Kawabata and Motoyasu.

CHIN 320 Introduction to Chinese Culture

Offers students a first glimpse at Chinese culture. Particular attention is given to the intellectual foundation of Chinese civilization. Deals with Chinese religious conception, Confucianism, Taoism, Mo Tzu, Buddhism and social changes in the past hundred years.

CHIN 499 Chinese Independent Study As approved by the department.

1-3 credits

77

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. 4 credits ·

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 4 credits

GER 112 Intermediate German I*

Refinement and introduction to the subtlety of oral expression. Guided discussion of questions of topical interest. Reading of the more formal and intricate language of unedited texts; supplementary readings from newspapers, magazines and journals. Prerequisite: GER 111, or two years of high school German or equivalent 4 credits

GER 113 Intermediate German II*

Development of free conversation with the aid of newspapers, magazines, tapes, recordings. Topics of contemporary interest provide a basis for an up-to-date, comprehensive view of Germany. Prerequisite: GER 112 or equivalent 4 credits

GER 499 German Independent Study As approved by the department.

1-3 credits ·. .

Greek

GR 110 Classical Greek for Beginners I An introductory course which provides the student with the basic elements of classical Greek. Primary emphasis is on structure and morphology; the aim is a graded reading knowledge. Since classical Greek is a nonliving language, classes expose the student to translation of simple grammatical forms and sentences in order to develop an extensive vocabulary.

GR111 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 arammar and reading of simple texts. 4 credits

HEBR 111 Basic Hebrew II*

Continuation of Hebrew I: readings of texts of medium difficulty, conversation and more complicated grammatical structures. 4 credits

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. 4 credits each

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. 4 credits

IT111 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. 4 credits

IT 112 Intermediate Italian I*

Designed for students who have a basic proficiency in Italian. Aims at strengthening the four language skills. Basic language patterns are reviewed, and new ones assimilated through conversation, reading and composition.

Prerequisite: IT 111, or two years of high school Italian or equivalent 4 credits

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 4 credits

*One hour per week lab work required. †Students planning to take all 3 levels must register for all levels during registration period.

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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.

17 499 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.

4 credits

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. 4 credits

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 acauired foundation in Japanese. Prerequisite: JPAN 111 or equivalent 4 credits

JPAN 113 Intermediate Japanese II*

A continuation of Intermediate Japanese I. Further increases the students' knowledge of Japanese grammar, vocabulary and idioms, and characters, building on the previously acquired foundation in Japanese. Prerequisite: JPAN 112 or equivalent 4 credits

JPAN 115 Basic Japanese Mini Course It JPAN 116 Basic Japanese Mini Course II JPAN 117 Basic Japanese Mini Course III Begins with an introduction to the Japanese sound system and to the romanization used in the textbook. Students are taught simple Japanese sentences, which introduce new vocabulary in a natural context. Equal attention is given to listening, speaking, reading and writing. Toward the middle of the course, the hiragana and katakana syllabaries are introduced. Each mini course: 1 credit

JPAN 499 Japanese Independent Study As approved by the department. 1-3 credits

Latin

LAT 110 Latin for Beginners I

Introduces the basic elements of classical Latin. The student is exposed to the cultural and historical background of the Romans as a means of understanding the Roman contribution to our age and culture.

LAT 111 Latin for Beginners II

Reading and translating complex forms of classical Latin, stressing correlations with the English language.

Prerequisite: LAT 110, or high school equivalent

LAT 499 Independent Study

As approved by the department 1-3 credits

Portuguese

PORT 110 Basic Portuguese I

PORT 111 Basic Portuguese II

An introductory two-part course in modern Portuguese. The skills of understanding, speaking, reading and writing Portuguese are developed insofar as the realities and limitations of learning a foreign language in a classroom allow. Cultural information about Portugal, Brazil and other Portuguese-speaking countries is provided in conjunction with the acquisition of the language skills. 3 credits each

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. 4 credits

RUS 111 Basic Russian II*

A continuation of Basic Russian I; more detailed study of grammar, practice in reading, writing, comprehension and speaking. 4 credits

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. 4 credits

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. 4 credits

RUS 115 Russian Mini Course I† RUS 116 Russian Mini Course II RUS 117 Russian Mini Course III

An introduction to the Russian language. The aim is to develop the student's ability to understand, read, write and speak basic and simplified Russian. 1 credit each mini course

RUS 499 Russian Independent Study

As approved by the department.

1-4 credits

*One hour lab work per week required. †Student planning to take all 3 levels must register for all levels during registration period.

Department of Philosophy

Professors—M. Hallparn, A. Juffras (chairman), W. McKeefery Associate Professors—S. Choi, M.L. Friquegnon, P. Struhl Assistant Professor—R. Myatt Instructor—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.

| MAJO | or reg | QUIREMENTS 3 | 0 credits |
|--------|--------------------|---------------------------|-------------|
| PHIL | 110 | Introduction to | · 3 |
| | • | Philosophy | • |
| PHIL | 130 | Ethics | 3 · |
| PHIL | 180 | Logic | 3 |
| Plusc | one of | the following: | |
| PHIL | 312 | Metaphysics | 3 |
| PHIL | 317 | Theory of Knowledge | 3 3 3 |
| PHIL | 321 | Philosophy of Art | 3 |
| Plusc | one of | the following: | |
| PHIL | 326 | Plato | 3 |
| PHIL | 327 | Aristotle | 3 3 |
| PHIL | 330 | David Hume and the | , |
| | | Skeptic Tradition | 3 |
| PHIL | 404 | Seminar: Classics in | 3 |
| · . | | Philosophy | |
| PHIL | 480 | Senior Seminar | 3 |
| Plus t | wo ⁱ ad | ditional courses in the h | nistory of |
| | | from the following: | |
| PHIL | 190 | The History of Ancient | 3 |
| | • | Philosophy . | |
| PHIL | 202 | The History of Modern | 3. |
| | | Philosophy from | |
| | | Descartes to Kant | |
| PHIL | 331 | Nineteenth Century | . 3 |
| | • | Philosophy: Post-Kanti | ian i |
| | | German Idealism | |

Plus nine credits of philosophy electives 9 **Note:** It is recommended that philosophy majors who wish to attend graduate school take sufficient courses in French and German to obtain competency in each language.

MINOR REQUIREMENTS 18 credits Students must complete 18 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.

THE SCHOOL OF HUMANITIES

PHIL 130 Ethics

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This course is taught in one of two ways: 1) an examination of representative ethical theories: ranging from Socrates, Plato, Aristotie, 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 Introduction to Inquiry

Covers methods of inquiry as used in empirical research. Explanation, hypotheticodeductive method, confirmation, and types of inductive thinking form the basis of the course. In addition, special attention is given to relating course material to the . thinking of the student.

PHIL 180 Logic

Covers formal techniques in the logic of propositions and predicate logic. Three kinds of deductive derivations—direct derivation, conditional proof, and indirect derivation—are considered as are shorter tests of validity and consistency. Recommended for debaters, lawyers and public speakers.

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

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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

Differs from the traditional philosophy course which is concerned with the **logic** of science. Deals with the logic of **social** inquiry. Applies customary scientific methods to the social sciences. Presents 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 307 Theories of Meaning

Theories of meaning, signification, language and communication. Begins with the works of the classical English empiricists. Progresses to the American pragmatists and naturalists (Pierce, Mead, Dewey, Buchler, Randall) and the Neo-Kantian, Cassirer.

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 322 Mysticism

A description of mystical experience in psychological terms and an examination of its claims to knowledge.

PHIL 323 Introduction to Marxism

A basic, introductory course in Marxism with special attention to dialectical materialism, the theory of class struggle, allenation 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 332 American Religious Experience

A study of tendencies in American theological doctrine in the twentieth century, especially as an outgrowth and consequence of nineteenth-century romantic revolution in religion. The concept of the social ministry of religion and its spread outside Protestantism into other religions is examined. Martin Luther King, Jr. and other social activists in other religions are discussed.

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 The Social Responsibility of Corporate Business

A study of large corporations as quasipolitical and social institutions. Examines capitalism as a revolutionary force of the twentieth century and the consequences for society implied in the social attitudes that prevail and endure in these institutions.

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 401 Philosophy of Education

A study of the origin and development of educational ideas and ideals which have shaped the modern American educational system. Contributions of influential philosophers and educational leaders from Plato to John Dewey are examined and evaluated.

Prerequisite: One prior course in either philosophy or educational theory

PHIL 402 Advanced Logic

A study of the nature of a formal deductive system, including the proofs of completeness, consistency and independence. The equipollence of deductive systems is also examined, and more advanced notions of predicate logic, multiple quantification, higher functional logic and logic of relations are covered.

Prerequisite: One prior course in logic

PHIL 404 Seminar: Classics in Philosophy

A classic work in philosophy is explored indepth from among the following: one of Plato's dialogues, a treatise from Aristotle, Augustine, St. Thomas, or works such as Kant's **Critique of Pure Reason**, Mill's **Utilitarianism**, James' **Pragmatism**, et al.

PHIL 420 Advanced Ethics

An intensive study of one or two moral problems; an attempt to inquire deeply . into some limited area.

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 480 Senior Seminar

Designed to prepare philosophy majors for graduate work. A scholarly, detailed study of an important philosophical problem, test or philosopher chosen by the instructor and the class. Research and writing are emphasized.

Prerequisite: Permission of the instructor for anyone who is not a senior philosophy major.

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

Berch Haroian, Dean Office: White Hall E1

The School of Management offers major and minor programs in accounting, business administration, computer sciences, criminal justice administration and economics.

For the exceptional student, there is a special interdisciplinary honors program in international management.

Special student needs are met through flexible arrangements that combine both work and education in a cooperative education program with major firms.

Standards

Students accepted by the School of Management will not be admitted to any major program in the school until they have completed 30 credits. Upon completion of 30 credits, students must make formal application to an area of study and must have an overall grade point average of 2.5 or better. Students who have not achieved this average cannot continue in a major program in the School of Management and may be referred to the Office of Educational Services for counseling.

Common Core

All students majoring in a program offered by the School of Management, with the exception of those in criminal justice administration and some in computer science, must successfully complete a common core of 33 credits designed to give students a broad foundation in subjects common to all areas of business. Upon this base, students build a program of course work which enables them to concentrate on more specific fields of study.

Students in other schools may enroll in common core courses to reinforce the management aspects of their respective majors. Students in science and health majors, for example, who seek management careers in those fields, may wish to take these courses.

| COM | MON | CORE COURSES 33 cred | lits |
|-------------|------|---|----------------|
| ACCT | 211 | Principles of Accounting I | 3 |
| ACCT | 212 | Principles of Accounting II | 3 |
| BUS | 201 | Introduction to | 3 |
| | | Management | |
| BUS | 310 | Marketing | . 3 |
| BUS | 320 | Corporation Finance | 3 |
| BUS | 460 | Business Strategy and | 3 |
| <u> </u> | | Policy | ~ |
| ĊS | 152 | COBOL and Data | 3 |
| 5001 | | Processing I | • |
| ECON | 1201 | Macroeconomic | 3 |
| FOO | | Principles | ~ ['] |
| ECON | 1202 | Microeconomic | 3 |
| | 1040 | Principles | 2 |
| ECON LAW | 251 | Economic Statistics I Business Law I—Contracts | 3 |
| | 231 | business Law I—Conifacts | 3 |
| | | | |

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 (économics, accounting, business administration, political science, history, geography, sociology or foreign lan-guages), 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 | 41 credits |
|--------------|------------|
| REQUIREMENTS | • |

Economics ECON 201 Macroeconomic Principles ECON 202 · Microeconomic Principles ECON 210 **Economic Statistics I*** ECON 211 Economic Statistics II* ECON 370 International Economics (honors section) ECON 390 **Comparative Economic** Systems A one-semester condensed honors section may be substituted for Economic Statistics I & II **Business** . . 309 BUS International Management BUS 320 Corporation Finance Marketing in an Interna-BUS 399 tional Setting (honors, section)

Accounting

| -ccouning | | |
|-----------|--------------------------|------------------|
| ACCT 211 | Principles of Accounting | ' 3 [–] |
| ۰. | l† | ٠. |
| ACCT 212 | Principles of Accounting | . 3 |
| | 11† | |
| | | |

†A one-semester condensed honors section may be substituted for Principles of Accounting I & II.

| Politic | al Scie | ence | , |
|---------|---------|---|--------|
| HPIM | 213 | Sophomore Honors | 1. |
| HPIM | 480 | Colloquium Senior Honors Seminar in Economic Growth, De- velopment, and Problems (different sections for East Asia, Europe and Latin | 2 |
| POL | 240 | America) International Relations | 3 |
| | STUDY | | dits (|

Foreign Language

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

History

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

| far e. Hist Hist Hist | AST 265 270 271 | Modern Japan Traditional China Modern China | 3 3 3 |
|--------------------------------|--------------------------------------|--|-------------|
| latin Hist Hist Hist | AMERI 380 381 382 | CA Colonial Latin America Modern Latin America Puerto Rico, Cuba and the Caribbean World | 3 3 3 |
| EUROI HIST HIST HIST | 307 333 338 | Social History of Modern Europe Modern British History Europe since 1914 | 3 3 3 |
| | | 1 | |

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

Sociology/Anthropology

3

·3

3

3

4

3

3

3

Δ

| SOC SOC SOC | 341 342 343 | Latin American Ethnology East Asian Ethnology European Ethnology | 3 3 3 |
|-------------------|-------------------|--|-------------|
| Politic | cal Sci | ence | |
| , POL` | 332 | European Political Systems | 3 |
| POL | 337 | Politics of Latin America | 3 |
| POL | 480 | Seminar in Political Science | 3 |
| Geog | raphy | , , | |
| ĠEO | 331 | Asia's Geography and Problems | 3 |
| GEO | 333 | Europe's Geography and Problems | . 3 |
| GEO | 335 | Latin America's Geogra- phy and Problems | 3 |

Department of Accounting, Law and Criminal Justice

Accounting

Associate Professor—R. Davis Assistant Professors—N. Bassano, F. Grippo, G. Kahn, R. Maresco, B. Prichep, M. Rudnick (chairman), A. Weinstein

William Paterson College offers an extensive program in the field of accounting, which prepares students for positions in two general areas, public accounting and private accounting.

Public Accounting

Students who successfully complete the accounting curriculum meet the minimum requirements set forth by the State Board of Accountants, and are allowed to sit for the C.P.A. examination. Special review courses are offered to assist students in meeting standards of the board. After successful completion of the examination, a two-year work requirement is needed to receive a certificate.

Most C.P.A.'s practice as individuals or in major firms. A growing trend in recent years has been the C.P.A.-manager who combines the skills of the accounting professional with managerial qualities needed in business.

State C.P.A. requirements to qualify for examination are as follows:

- 1. Applicant must be 18 years old.
- 2. Applicant must:
 - a. Be a resident of the State of New Jersey, or
 - b. be in the employ of a certified public accountant or firm or certified public accountants having an office and performing services in the State of New Jersey, or
 - 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 Professional 'Conduct. It is written in the Accountancy Law that every applicant for the C.P.A. Certificate is bound by these rules.

Accounting Honors Track

In an effort to recognize exceptional students in the accounting curriculum and to prepare students to keep abreast of the current needs of the profession, the School of Management has created an accounting honors track.

The honors track is open to undergraduates who intend to pursue a career and obtain certification in the field of public accounting. Upon meeting specific academic and grade point requirements—sophomore standing, completion of Accounting I and II, and a 3.0 grade point average—students accepted into this program take courses with full-time members of the school's accounting faculty and are required to attend all accounting major courses as a group. Upon successful completion of this major course of study, a student is awarded a bachelor of arts in public accounting.

Private Accounting

For students who are not interested in pursuing a C.P.A. but are interested in responsible financial positions, the program outlined below makes provision for the professional flexibility that both public agencies and private firms require of students entering the field of finance.

| MAJOR REQ | UIREMENTS 3 | 3 credits |
|------------|-------------------------|-----------|
| ACCT 211 | Principles of Accountir | ngl 3 |
| ACCT 212 | Principles of Accountin | ngll 3 |
| ACCT 311 | Intermediate Account | ting 3 |
| ACCT 312 | Intermediate Account | ting 3 |
| ACCT 340 | Cost Accounting I | 3 |
| ACCT 341 | Cost Accounting II | 3 |
| ACCT 370 | Auditing | 3 |
| ACCT 410 | Taxation I | 3 |
| ACCT 411 | Taxation II | 3 |
| ACCT 420 | Advanced Accounting | |
| ACCT 430 | CPA Review Course | 3 |
| DIRECTED E | LECTIVES | 5 credits |

BUS 252 Business Law II* ECON 310 Money and Banking

ADDITIONAL REQUIRED CREDITS

15 credits

3

3

Students may choose from among accounting, business, economics or computer and statistics courses other than major courses or directed electives outlined above. It is highly recommended that students take ACCT 341, 411 and the C.P.A. Review Course as required additional electives.

*C.P.A. candidates should defer this course until senior year.

| MINOR REQ | UIREMENTS 18 cre | ədits |
|-----------|-----------------------------|-------|
| ACCT 211 | Principles of Accounting I | 3 |
| ACCT 212 | Principles of Accounting II | 3 |
| ACCT 311 | Intermediate Accounting | 3 |
| ACCT 312 | Intermediate Accounting | 3 |
| ACCT 340 | Cost Accounting I | 3 |
| ACCT 370 | Auditing | 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

ACCI 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

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 CPA Review Course

Intensive review and analysis of basic and advanced concepts, skills and principles. Imperative for students who intend to apply for a certifying examination. Prerequisite: ACCT 370

ACCT 499 Independent Study

As approved and to be arranged. 1-3 credits

Law

Associate Professors—I. Achebe, G. Sheehan

Assistant Professors—R. Bing, S. Mitchell

At present, the law faculty offers 14 law courses which are open to all students in the College. Designed to acquaint students with the goals, functions and procedures of the United States legal system, this curriculum provides a background for students planning to enter law school as well as those who are interested in lawrelated fields, such as para-legal work, criminal investigations, public administration, and others. All members of the law faculty are lawyers and are available as pre-law advisors to any student who wishes to apply to law school.

Courses

Unless otherwise noted, all courses are for 3 credits.

LAW 120 Introduction to Law and Legal Systems

A liberal studies survey course for students of all curricula. Designed to acquaint them with the operation of the American legal system. Among topics covered are the law of torts, criminal law and procedures, civil procedures, administrative law and the court systems; both state and federal. Open to all students.

LAW 206 Substantive Criminal Law

Designed to acquaint students with penal codes and concepts such as criminal liability, anticipatory offenses, offenses against the person and property, offenses involving fraud and offenses against public administration. Scrutinizes defenses such as selfdefense, 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.

Prerequisites: LAW 120 and permission of the instructor.

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 parol 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 or permission of the instructor.

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, wiretapping, due process, right to counsel, bail, warrants, fair trial and grand jury. U.S. Supreme Court rulings that control state criminal procedures are used as guidelines. Prerequisite: LAW 120, 206 or 251, or permission of the instructor.

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, adjadecatory power, investigatory power and substantial evidence are critically examined.

Prerequisites: LAW 120, 206, 251. Juniors and seniors preferred.

LAW 421 Real Estate I

A detailed study of the principles and practices of real estate, including ownership, contracts, deeds, conveyances, mortgages and titles to realty. Methods of financing the real estate business and the role of the real estate broker are emphasized. The role of real estate in the economy is also examined.

Prerequisites: LAW 251, 252

LAW 422 Real Estate II

A study of the law of real estate. Topics covered in detail include real estate brokerage, the real estate broker and the law, rights of lien, taxes, leases and property insurance and management, land subdividing and developing, city planning and zoning, housing legislation and home ownership. Condominiums, cooperatives and other types of real estate are distinguished.

Prerequisite: LAW 421

Criminal Justice Administration

Associate Professor—W. Cusack Assistant Professors—B. Asaro, L. Gaydosh

The criminal justice administration program offers students a variety of courses, with equal emphasis on behavioral science and scientific approaches in its analysis of organizational behavior and the cause, prevention and control of unlawful behavior. The four-year curriculum leading to a bachelor of science degree in criminal justice administration is specifically designed for students either currently working in the criminal justice system or pre-service students contemplating careers within that system.

All courses offered by the Department of Criminal Justice Administration are doubletracked so that those students working in jobs that require changing work schedules can be accommodated in either the day or evening session of a given course. Many liberal studies courses—history, business, political science, philosophy, English and African and Afro-American studies—are double-tracked as well.

The Department of Criminal Justice Administration offers courses in corrections, organization and administration, criminology, community relations, investigation, juvenile delinquency, white collar crime, arson investigation, supervision, management, civil law for criminal justice practitioners, patrol administration and a seminar in criminal justice problems. The program also offers an independent study course.

| | • | | |
|------------|------------|--|------------|
| MAJC | or reg | UIREMENTS 3 | 3 credits |
| CJA | 160 | Introduction to Law | 3 |
| CJA | 161 | Enforcement Law Enforcement Organization and Administration | · 3 |
| CJA CJA | 203 302 | Community Relations Introduction to Criminology | 3 |
| CJA | 480 | Seminar in Criminal Justice | ·3 |
| LAW | 120 | Introduction to Law an Legal Systems | nd 3 |
| Plus 1 | 5 add | litional credits in crimin | al justice |

administration by advisement.

Courses

Unless otherwise noted, all courses are for 3 credits.

CJA 160 Introduction to Law Enforcement 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 communitybased programs and facilities.

CJA 203 Community Relations

Examines the attitudes and actions of criminal justice personnel and the public which contribute to positive and negative relationships between the two; public apathy and law enforcement; changing nature of social controls; cases and situations in criminal justice community relations. Explores ways to stimulate meaningful, human relationships and a sense of dialogue. The class setting serves as a laboratory in which a sense of community among students is fostered.

CJA 207 Criminal Justice System

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 Introduction to Criminology

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.

Department of Business, Economics and **Computer Science**

Business Administration

PROFESSORS-K. Kim, M. Laurence, P. Nayak, C. Nouri ASSOCIATE PROFESSOR-O. Nabe

Students who wish to pursue a broadbased business major should consider the business administration program. The program is grounded in liberal studies and provides strong exposure to a variety of disciplines which allows the student to have maximum flexibility with which to meet the challenges of the current and future job market.

| MAJ | OR REG | UIREMENTS | 36 credits |
|------|---------|----------------------|------------|
| BUS | 201 | Introduction to | 3 |
| | | Management | |
| BUS | 251 | Business Law I | 3 |
| BUS. | 252 | Business Law II | ·· 3 |
| BUS | 310 | Marketing | 3 |
| BUS | 320 | Corporation Finance | e 3 |
| Plus | 21 c | redits selected fror | n among |
| cour | ses wit | h catalog numbers | above BUS |
| 300. | | | |
| | | | |

| DIRECTED E | LECTIVES 21 cre | dits |
|------------|-----------------------------|------|
| ACCT 211 | Principles of Accounting I | 3 |
| ACCT 212 | Principles of Accounting II | 3 |
| CS 152 | COBOL & Data | 3 |
| | Processing I | |
| ECON 201 | Macroeconomic | 3 |
| | Principles | • |
| ECON 202 | Microeconomic | 3 |
| | Principles | |
| ECON 210 | Economic Statistics I* | 3 |
| ECON 211 | Economic Statistics II | 3 |

*Either MATH 150 or 155 is strongly recommended as a prequisite to Economic Statistics I. All students in this major are strongly advised to take mathematics courses or courses in quantitative methods and analysis.

MINOR REQUIREMENTS **18 credits** ACCT 211 Principles of Accounting I 3 BUS 201 Introduction to 3 Månagement BUS 310 Marketina 3 ECON 201 Macroeconomic 3 Principles ECON 202 3 Microeconomic Principles LAW 251 Business Law I 3

Courses

Unless otherwise noted, all courses are for 3 credits.

BUS 201 Introduction to Management

Introduces basic principles, policies, problems, and successful methods of business organization and management. Emphasizes management's ability to analyze, plan, coordinate and control the varied activities of production, personnel, finance and marketing. Also examines social responsibility and environmental factors affecting business policy and operation. Prerequisite: ECON 201

BUS 301 Personnel Management

Focuses on how to select and train personnel and how to develop and maintain a positive human-relations environment which contributes to the efficiency of the business operation. Prerequisites: BUS 201, 310

BUS 302 Materials Management

Surveys the principles of materials management with emphasis on industrial pro-. curement-its organization and its analytical methods and techniques. Prerequisites: BUS 201, 301, ECON 201, 202, 210

BUS 303 Manpower Management

Examines how the dynamics of a changing world affect the composition of the labor force and the economy, ways to develop and use human resources, and how each step in the employment process affects meaningful teamwork. Also, how to adapt employment and training programs to the special needs of individual professional or minority groups.

Prerequisites: BUS 201, 301, ECON 201, 202

BUS 305 Management and the External Environment

A systematic analysis of environments conceived as dynamic systems of interrelated components. Identifies and forecasts trends of special concern to corporate management. Particular emphasis on problems of evaluating national economic policy, special interest groups, government regulations, consumerism and ecology. Prerequisites: BUS 201, 301, LAW 231, ECON 201 or 202

BUS 306 Organizational Behavior

Develops the ability to accommodate organization design to present and 'future planning. Uses theoretical foundations of organization philosophy, concepts and processes to analyze and solve real world situations.

Prerequisites: BUS 201, 301

BUS 307 Organizational Decision-Making

Focuses on the integration and application of both the quantitative and qualitative aspects, concepts and tools of managerial action necessary to accomplish the evaluation and selection of alternatives in the administrative decision-making process. Prerequisites: BUS 201, 301, ECON 201 or 202, MATH 160, 161 Open to seniors only

BUS 309 International Management

An analysis of international management problems. Defines the nature of the international, multinational and transnational company, examines the evolution of these types of enterprises, and develops a model of a multinational firm in a dynamic, global setting.

Prerequisites: BUS 201, 301, ECON 201, 202

BUS 310 Marketing

Major emphasis on techniques for solving business problems, the development of marketing policies, and the sale of consumer and industrial products. Various marketing decisions are examined with respect to product-planning, channel of distribution, promotion activity, selling and sales. management, pricing and international marketina.

Prerequisites: BUS 201, ECON 201, 202

BUS 311. Money and Banking (also listed as ECON 310)

An analysis of the nature of money, credit and the banking system of the United States.

Prerequisites: ECON. 201, 202

BUS 314 Advertising

The dynamic role played by advertising in the American economy. Examines the function of the corporate advertising department in manufacturing and retailing firms as well as the advertising agency itself.

Prerequisites: ACCT 211, 212, BUS 310

BUS 320 Corporation Finance

A study of the financial principles and practices involved in the reorganization, administration and dissolution of private business corporations.

Prerequisites: ACCT 211, 212, ECON 201, 202

BUS 340 Labor and Management in the American Economy (also listed as ECON 340)

An examination of how labor and management are affected by various theories and institutional approaches and policies, such as public legislation on labor and management relations, collective bargaining, labor unions, inflation and unemployment.

Prerequisites: ECON 201, 202

BUS 342-Retail Marketing: Merchandise Manägement

The dynamic role played by retailing in the American economy. Analyzes the problems of marketing consumer goods and services and operating various types of stores. Strategies of forecasting, planning, organizing and controlling retail operations are also considered.

Prerequisites: ACCT 211, 212, BUS 310

BUS 403 Capital Budgeting

The conditions under which production takes place and the part managers and workers play in effecting production. Prerequisites: BUS 310, 320

BUS 410 Taxation I (also listed as ACCT 410)

A study of the U.S. Internal Revenue Code with emphasis on income taxation of individuals. Provides practice in the preparation of tax returns and the solution of case problems. Concentrates on the problems of U.S. individual income tax, but taxation of corporations and partnerships is also examined.

Prerequisites: ACCT 211, 212

BUS 411 Taxation II (also listed as ACCT 411)

A study of the U.S. Internal Revenue Code with emphasis on the taxation of corporations, partnerships, estates and trusts. Federal payroll, gift and estate and New Jersey taxes are also covered. Prerequisite: BUS 410

BUS 420 Managerial Economics (also listed as ECON 410)

The application of economic analysis to the solution of individual business problems. Among the primary areas covered are demand forecasting, cost and profit analysis and capital budgeting. Prerequisites: ECON 201, 202, 210, 211

BUS 430 Product Planning and Management

Emphasizes the importance of product planning and development of new products for the growth and survival of business organizations. Particular emphasis is on product development, the management of new product strategies, and the planning and management of the entire product mix in the multiproduct organization. Prerequisites: BUS 310, 320

BUS 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 busiess firm.

Prerequisites: BUS 310, 320, ECON 211

BUS 450 Small Business Management

A senior-level seminar course in the practical aspects of designing and operating a small business firm. Urban and inner-city minority group and poverty problems are highlighted where appropriate.

BUS 460 Business Strategy and Policy

A case study approach to business decision-making that integrates functional and organizational disciplines. Examines, in depth, a series of complex industrial situations to determine in each instance the strategy and policies a firm should follow for its long-run survival.

Prerequisites: Bus 310, 320

BUS 465 Marketing Research

Marketing research as a tool of marketing management, emphasizing the role of research in planning, organizing and controlling marketing activities. Various analytical tools for marketing research are examined and their application to practical marketing problems is illustrated. Prerequisites: ACCT 212, BUS 310, 320, ECON 211

BUS 470 An introduction to Operations Research

The scientific methodology of operations research and logic is applied to the decision-making process. Introduces the concepts of linear and mathematical programming and inventory and statistical decision theories.

Prerequisite: ECON 211

Economics

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

Associate Professor—C. Liddicoat (chairman)

Assistant Professors—S. Mahlahla, L. Presby Instructor—G. Nicklas

The economics program provides students with a broad conceptual framework and the analytical tools of economic decisionmaking. Flexibility is built into the curriculum so that students may seek employment upon completion of their fouryear program or, if they prefer, continue on to graduate school for further study. The program provides an excellent background for such areas, as law, management and business administration.

| MAJOR REQUIREMENTS 30 credits |
|-------------------------------------|
| ECON 201 Macroeconomic 3 |
| Principles |
| ECON 202 Microeconomic 3 |
| Principles |
| ECON 210 Economic Statistics I 3 |
| ECON 211 Economic Statistics II |
| ECON 301 Macroeconomic Theory 3 |
| ECON 302 Microeconomic Theory 3 |
| Plus 12 credits selected from among |
| courses with catalog numbers above |
| ECON 302. |
| · • • |
| DIRECTED ELECTIVE 3 credits |
| MATH 150 Applied Calculus I 3 |
| or |

MATH 155 Intermediate Algebra 3 for College Students

All students majoring in economics are strongly advised to take mathematics courses or courses in quantitative methods and analysis.

| MINOR REG | 18 cre | dits 👌 | |
|-----------|-----------------------------|--------|---|
| ECON 201 | Macroeconomic Principles | ÷ , | 3 |
| ECON 202 | Microeconomic Principles | | 3 |
| | | • | |

Plus 12 additional credits in economics by advisement. This minor is strongly recommended for all business administration majors, who, after completing requirements for a business administration major, would need only 6 additional credit hours in economics. This minor is also strongly recommended for mathematics majors, since economics is a field in which mathematics can be extensively applied.

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.

Prerequisife: MATH 150 or 155

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 310 Money and Banking (also listed as BUS 311)

An analysis of the nature of money, credit and the banking system of the United States.

Prerequisites: ECON 201 and 202

ECON 321 Public Finance

A study of theoretical and empirical aspects of government expenditure and revenue activities. Special emphasis is placed on the impact of government policies on the economy and the relationship of government policies to issues of current interest in American society. Prerequisites: ECON 201 and 202

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ECON 340 Labor and Management in the American Economy (also listed as BUS 340)

An examination of how labor and management are affected by various theories and institutional approaches and policies, such as public legislation on labor and management relations, collective bargaining, labor unions, inflation and unemployment.

Prerequisites: ECON 201 and 202

ECON 360 Theory of Economic Growth and Development

A study of the sources of economic growth and development and the private and public policies which affect this historical trend. Both underdeveloped and developed countries are considered. Prerequisites: ECON 201 and 202

ECON 370 International Economics

An introduction to the principles and characteristics of international transactions. Prerequisites: ECON 201 and 202

ECON 380 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 390 Comparative Economic Systems

A study of the actual operations of various economic systems as they seek the optimum use of the human and natural resources available to them. The ideological, technological and organizational features of each system are stressed. Prerequisites: ECON 201 and 202

ECON 410 Managerial Economics

The application of economic analysis to the solution of individual business problems. Among the primary areas covered are demand forecasting, cost and profit analysis and capital budgeting. Prerequisites: ECON 201, 202, 210, 211

ECON 430 Econometrics

The ordinary least squares criterion is scrutinized. The problems of estimating demand, supply, consumption, productionand cost functions are treated in depth. Prerequisites: ECON 201, 202, 210, 211

ECON 499 Independent Study As approved and to be arranged. 1-3 credits

Computer Sciences

Professor—L. Cheo Associate Professor—E. Hu, F. Servedio Assistant Professor—V. Jategaonkar

The computer sciences program consists of a five-track minor and a three-track bachelor's degree-granting program. The minor, open to all students regardless of discipline, requires students to successfully complete a minimum of 18 credits in the computer sciences area. The degree-granting program consists of three tracks. 1) physical and natural sciences; 2) business, economics and accounting; 3) social and behavioral sciences. Students are required to complete 22 to 25 credits in computer sciences as the core of the program, as well as additional courses in computer sciences and other areas to satisfy particular degree requirements. These programs cover computer hardware systems, as well as computer applications to business, economics, accounting, natural, physical, social and behavioral sciences, education and mathematics.

The digital computing facilities consist of an in-house IBM System 1130, a Remote Job Entry (RJE) System, and several interactive timesharing (T/S) terminals. A computer science laboratory, equipped with the RJE, the T/S terminals, keypunch machines and a library is open to students. The computer system used for academic purposes is connected to the IBM System 370/168 and 370/158 of the New Jersey Educational Computer Network (NJECN). Students can learn programming languages such as FORTRAN, PL/I, COBOL, SNOWBOL and Assembler in both BATCH and INTERACTIVE mode, and BASIC, APL, and Course-Writer in INTERACTIVE mode. An EAI Miniac Analog computer system is available to students interested in learning various types of deterministic and probabilistic simulation and problem-solving techniques directly through an analog device.

| CORE | CORE PROGRAM 24 credits | | | | |
|---------------------------------------|-------------------------|------------------------|---|--|--|
| CS | 140 | Computer Science I | 3 | | |
| CS | 240 | Computer Science II | 3 | | |
| CS | 280 | Computer and Assembler | 3 | | |
| | | Language | | | |
| CS | 341 | Computer Design | 3 | | |
| CS | 342 | Programming Language | 3 | | |
| | | and Data Structures | | | |
| CS | 343 | Systems Programming | 3 | | |
| ĊS ĺ | 362 | Elements of Computer | 3 | | |
| | | Simulation | | | |
| CS | 480 | Computer Science | 3 | | |
| | | Seminar | | | |
| Plus required courses for each track: | | | | | |

TRACK I: Physical and Natural

Sciences 30 credits CS 360, 9 credits of 300- and 400-level computer science courses, and 18 credits in mathematics, physics, biology and/or chemistry.

TRACK II: Business, Economics andAccounting39creditsCS152, 6credits of 300-and 400-levelcomputer science courses, and 30creditsin accounting, business and/or economics.TRACK III: Social and BehavioralSciences27-29credits

9 credits of 300- and 400-level computer science courses and 18-20 credits in psychology, social sciences and/or political science.

| MINOR | REQUIREMENTS | • | 9 credits |
|-------|--------------|---|-----------|
| | alt as fast | | |

- CS 140 Computer Science | CS 240 Computer Science |
- CS 280 Computer and Assembler

Language Plus required courses for each track:

TRACK I: Mathématics and Physics

| Majo | ors | 9 cre | dits |
|------|--------|------------------------|------|
| CS | 360 | Computer Calculus | 3 |
| Plus | two of | the following: | |
| CS | 341 | Computer Design | 3 |
| CS | 342 | Programming Language | • 3 |
| | | and Data Structures | |
| CS | 361 | Combinatorial Com- | 3 |
| | | puting | |
| CS | 362 | Elements of Computer | 3 |
| | | Simulation | |
| CS | 480 | Computer Science Semi- | 3 |
| | | nar | |
| | | | |

TRACK II: Biology, Chemistry, Earth

| Scier | nces a | nd Physics Majors 9 c | credits |
|-------|--------|-----------------------|---------|
| CS | 362 | Elements of Computer | 3 |
| | | Simulation | |
| Plus | two of | the following: | |
| CS | 341 | Computer Design | 3 |
| CS | 342 | Programming Language | ∋ 3 |
| | | and Data Structures | |
| CS | 360 | Computer Calculus | 3 |
| CS | 480 | Computer Science | 3 |
| | | Seminar | |
| | | | |

TRACK III: Business, Economics and

| Acco | ounting | 1 Majors 9 cre | dits |
|------|---------|----------------------|------|
| CS | 362 | Elements of Computer | 3 |
| | | Simulation | • . |
| Plus | two of | the following: | |
| CS | 152 | CÓBOL and Data | 3 |
| | | Processing I | • |
| CS | 252 | COBOL II | 3 |
| CS | 341 | Computer Design | 3 |
| CS | 342 | Programming Language | 3 |
| | | and Data Structures | |
| CS | 480 | Computer Science | 3 |
| | | Seminar | |
| | | , | |

TRACK IV: Psychology and Other Social

| and | Behavi | ioral Science Majors 9 cr | edits |
|------|--------|---------------------------|-------|
| CS | 362 | Elements of Computer | 3 |
| | | Simulation | |
| Plus | two of | the following: | |
| CS | 270 | Computer Statistical | 3 |
| | | Techniques I | |
| CS | 341 | Computer Design | 3 |
| CS | 342 | Programming Language | - 3 |
| | | and Data Structures | |
| CS | 370 | Computer Statistical | 3 |
| | | Techniques II | |
| CS | 480 | Computer Science | 3 |
| | | Seminar | |
| | | | |

| TRAC | CK V: A | II Other Majors 9 (| credits |
|------|---------|----------------------|---------|
| CS | 362 | Elements of Computer | 3 |
| • | | Simulation | |
| Plus | two of | the following: | |
| CS | 152 | COBOL and Data | 3 |
| | | Processing I | |
| CS | 252 | COBOL II | 3 |
| CS | 341 | Computer Design | 3 |
| CS | 342 | Programming Languag | e 3 |
| | | and Data Structures | |
| CS | 480 | Computer Science | 3 |
| | | Seminar | |

Courses

3

3

3

Unless otherwise noted, all courses are for 3 credits.

CS 130 Introduction to Computers and BASIC

Introduces the basic principles and applications of computing systems, minicomputers in particular. Techniques of computer programming are introduced through BASIC. Students who intend to major or minor in computer science may be waived from this course with permission of a faculty advisor.

CS 140 Computer Science I

Designed to teach students how and why a computer is used. The student learns how to program in the FORTRAN language. Simple applications in the most frequently used mathematical models are included. Prerequisite: CS 130 or permission of the instructor

CS 152 COBOL and Data Processing I

Introduction to the COBOL language with

applications to commercial problems. Topics in business information processing, such as payroll and inventory management, are examined.

Prerequisite: CS 130 or permission of the instructor

CS 240 Computer Science II

An introductory course on the solution of computational problems. Emphasizes the computer solution of several numerical and non-numerical problems using an algebraic language such as PL/I. Appropriate flow charting and algorithms for the computational solution to each problem are designed and discussed. A survey of computer languages and systems is also included. Prerequisite: CS 140

CS 252 COBOL II

Data processing systems and the advanced features of COBOL. Prerequisite: CS 152

CS 270 Computer Statistical Techniques I An introduction to existing major statistical packages such as DATATEXT, BMD, SPSS, SAS, etc., using BATCH card data manipu-

lation process. Some basic JCL concepts used for this purpose are discussed. Prerequisite: Math 130 or equivalent and CS 140

CS 280 Computer and Assembler Language

An introduction to the study of the basic structure and language of machines. Prerequisite: CS 240

CS 330 Linear Programming and Operation Research

Introduces the concept of operations research and mathematical techniques applied to decision-making problems when the inputs are known. Prerequisite: Math 120 or 202 and CS 240

C\$ 341 Computer Design

An introduction to the internal structure of digital computers. Prerequisite: CS 280

C\$ 342 Programming Language and Data Structures

An introduction to elements of programming languages and basic concepts of : data representation. Prerequisite: CS 280

CS 343 Systems Programming

The problems arising in systems programming. Emphasis on a multi-programming system. Prerequisites: CS 341 and 342

CS 344 Switching Theory

The theoretical principles and mathematical techniques concerned with the logic design of digital systems. Prerequisite: CS 240

C\$360 Computer Calculus

Emphasizes building algorithms for solution of numerical problems; the sensitivity of these algorithms to numerical error, and the efficiency of these algorithms. Prerequisites: CS 240 and MATH 202

CS 361 Combinatorial Computing

The problem of how to cariy out computations with discrete mathematical structures. Introduces students to the fundamental concepts and techniques used in solving many combinatorial problems by utilizing computers.

Prerequisites: CS 240 and MATH 202

CS 362 Elements of Computer Simulation

Probabilistic simulation models: generation of random numbers, Monte Carlo methods and elementary queueing theory. Deterministic simulation models: application to physics, economics and biological processes. Other non-numerical problems included are searching and sorting techniques and information retrieval techniques. Prerequisites: CS 240, some statistics

C\$ 370 Computer Statistical Techniques II A follow-up course to CS 270. Topics include data manipulation on statistical programs using on-line, tape and disk devices. Prerequisite: CS 270

C\$ 399 Special Topics in Computer Sciences

A course designed to implement new topics on an experimental basis. Prerequisite: Instructor's permission

CS 420 Compiler Construction

The major techniques used in compiler writing. Topics include formal language theory, lexical and syntactic analysis, code generation and optimization, and error diagnostics and recovery. Prerequisite: CS 342

C\$440 Information Organization and Rétrieval

Flow of data, its representation, transmission and storage. Prerequisite: CS 342

C\$445 Automation

Emphasizes the central concept of effective procedure of the computer-like machines, such as finite-state machine pushdown automation, register machine and Turing machine. Prerequisite: CS 344

C\$ 460 Analogue Hybrid Computing

Techniques for solving mathematical modeling problems, concepts of data sampling and computer function generation, and digital simulation of analogue computers. Prerequisites: CS 360 and 362.

CS 462 System Simulation

Introduction to the principles of simulation and the application of several simulation languages to system studies. Discussion of the techniques applicable to both continuous and discrete systems and an explanation of the probability theory and statistical techniques involved in the construction of valid models and in analyzing results..

Prerequisite: CS 362

CS 465. Computer Simulation II.

The formulation and analysis of mathematical models representing probabilistic systems, probability theory, queueing theory, inventory maintenance and reliability problems. Use of characteristics of these systems in decision-making is covered. Prerequisite: CS 362

C\$ 480 Computer Science Seminar Current topics in computer sciences are

discussed. Prerequisite: Instructor's permission

The School of Science

Alvin F. Shinn, Dean

Office: Science Hall 317

The School of Science offers degree programs in biology, chemistry, environmental studies (under various majors), and mathematics for students wishing to pursue careers in these disciplines, including teaching.

The school offers diverse liberal studies courses for students who are majoring in other schools of the College. The woods, pond, waterfall and undeveloped parts of the campus are used for studies in ecology, biology, geology, and for surveying practice in environmental mapping.

Seminars by prominent scientists, given throughout the year, keep students and faculty abreast of recent research and developments in the sciences. Each department has a number of faculty active in research who regularly provide opportunities for students to engage in research under their supervision. Modern scientific equipment and supplies support both researchers and students.

Pre-Professional Programs

The Pre-Professional Committee (including pre-medical, pre-dental, pre-veterinary, and related fields of biological sciences) includes three members of the biology department, one member of the chemistry department, and the advisor of the Pre-Professional Society.

Students interested in a career in medicine, osteopathy or poalatry should meet with the pre-medical advisor during the first semester of the freshman year. The advisor suggests appropriate courses, explain 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 ability to do well in an interview. The student is rated in comparison to other students in biology and chemistry over the past five years. This Indicates to a professional school the likelihood of a student's success in a program. All students should realize that pre-professional programs are very competitive and students should have alternative plans if they are not accepted.

Pre-Medical Preparation Prospective medical students should acquaint themselves with entrance requirements for medical schools by consulting the handbook published annually by the Association of American Medical Colleges, Admission Requirements of American Medical Colleges. They should read each year's issue to make sure that the requirements of the schools to which they plan to apply have not changed and are advised to purchase the publication by mail from the association at 1 DuPont Circle, N.W., Washington, D.C. 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.

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.

The State of New Jersey has agreements with the following veterinarian schools to accept students who are New Jersey residents: Cornell University, University of Kansas, Ohio University and the University of Pennsylvania.

Minimum requirements are biology or zoology, 8 credits; chemistry, including organic and biochemistry, 16 credits; math, including some analytic geometry and calculus, 6 credits; physics, 8 credits; microbiology, 3 credits; genetics, 3 credits; English, 6 credits. There is a requirement for farm work or work with a veterinarian.

Required courses should be taken as early as possible, and the course of study should be approved by the pre-professional advisor of the Department of Biology as early as possible.

Honors Program in Biopsychology

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

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

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

| FOUN | Dation C | OURSES 41-46 cred | its |
|-------------------------|-----------------------------|---|--------|
| Psych PSY | ology 110 | General Psychology | 3 |
| Biolog BIO | 9y 163-164 | General Biology I and II | 8 |
| or BIO | 212-213 | General Anatomy and Physiology I and II | 8 |
| Cherr CHEM | n istry 160-161 | General Chemistry I and II | 8 |
| and CHEN | 1308-309 | Organic Chemistry I and II | 8 |
| or [.] CHEN | 164-165 | College Chemistry and Organic Biochemistry | 8 |
| Physic | - 6 | | |
| Choo | se one of | the following two-semest | er |
| PHYS | es by adv 255-256 | risement: College Physics I and II | 8 |
| or PHYS | 260-261 | General Physics I and II | 8 |
| Com CS | outer Scie 130 | n ce Introduction to Com- puters/BASIC | 3 |
| Statis | ics | • | |
| PSY | 202-203 | Experimental Psy- chology I and II | 8 |
| or MATH | 230 | Statistics for Science Majors | 3 |
| COPE | | | le |
| BIPY | 474 | Neuroscience | 4 |
| BIPY | 475 | Behavior Genetics | 4 3 |
| , | • | Topical Elective in Biopsychology | 3 |
| | | (one or more) | |
| PSY | 353 | Physiological Psy- chology | 3 |
| MAJC | OR ELECTI | VES 10-12 cred | lits |
| Electi | ve course | s are chosen by adviseme | nt. |
| Reco SOC | mmende 130 | d liberal studies courses: Introduction to An- | 3 |
| PHII | 110 | thropology Introduction to | 3 |

| PHIL | 110 | Introduction to Philosophy | 3 |
|------------|-----|-------------------------------|---|
| or PHIL | 140 | Introduction to Inquiry | 3 |

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

Courses

Unless otherwise noted, all courses are for 3 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 geneenvironment interaction as a determiner of both animal and human behavior. Exposure to various methods of experimental and correlational types of investigation. Prerequisites: BIO 163-164 or 212-213 or permission of the instructor.

4 credits/lecture and laboratory

BIPY 476 Developmental Biopsychology

Designed to introduce students to the scope and methods of a psychobiological approach to development. Stresses the phylogenetic and ontogenetic processes influencing individuals, groups, species and phyla, with special emphasis on human groups.

Prerequisites: PSY 353 or BIO 163-164 or BIO 212-213 or permission of the instructor.

BIPY 479 Biorhythms in Physiology and 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 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.

Honors Program in Life Science Ethics

The honors program in life science ethics offers an exploration of the ethical dimension surrounding both the actual achievement of advances in the life sciences and the implications of the uses of such knowledge.

Students who seek to challenge their intellectual curiosity, and who can tolerate the legitimacy of a value system other than their own, should be enriched by the examination of the ethical dimensions of such issues as human and animal experimentation, the utilization of limited health resources, and consideration of the realm of genetic engineering. The program has special attraction for students majoring in biology, nursing, philosophy, psychology or sociology.

| COM | MON | CORE | 39-40 credits |
|-------|--------|---------------------|---------------|
| Biolo | gy | | |
| BIO | 163 | General Biology | 4 |
| BIO | 164 | General Biology | 4 |
| Choc | se one | e of the following: | |
| BIO | 302 | Human Genetic | s 3 |
| BIO | 306 | General Genetic | cs 4 |
| BIPY | 475 | Behavior Genetic | cs 4 |
| | | | |

Psychology

| PSY | 110 | General Psychology | 3 |
|-----|-----|--------------------|---|
|-----|-----|--------------------|---|

Research Methods

Choose one statistics course and one research methods course by advisement 6

Philosophy

| | / | | |
|----------------------|-------------------|--|-------------|
| PHIL PHIL PHIL | 130 140 325 | Ethics Introduction to Inquiry Philosophy of Science | 3 3 3 |
| Life S | cienc | e Ethics | |
| LSE | 310 | Ethics/Values Issues in the | 3 |

| | | view | |
|-----|-----|--|---|
| LSE | 400 | Case Studies in Life Sci- | 3 |
| ĹSE | 480 | ence Ethics Seminar: Public Policy in | 4 |
| | | the Life Sciences | - |

DIRECTED MAJOR ELECTIVES 9-12 credits

Courses in the major are selected by advisement.

DIRECTED PROGRAM ELECTIVES 6 credits

Courses outside the major are selected by advisement.

THE SCHOOL OF SCIENCE

3

3

Department of Biology

Professors—R: Callahan, R. Capelia, L. Emrich, M. Hahn, C.Y. Hu, D. Levine, J. Rosengren, A. Shinn, J. Voos (chairman), D. Weisbrot

Associate Professors—N. Grant, J. Green, S. Hanks, A. Isaacson, O. Newton, M. Sebetich, E. Wallace, J. Werth

Assistant Professors—E. Enslee, R. Everson, J. Walters

The Department of Biology offers a major and a minor-in biology and provides a wide scoper of biology electives and service courses for students from other disciplines. The major leads to the bachelor of science degree in biology. To meet the needs of modern biology, the department has established a curriculum that provides broad, basic training in the fundamentals of biology as well as a concentration in one of three levels of biological organization.

Interested students may inquire about the honors programs in biopsychology and life science ethics offered jointly with several other departments.¹

Certification is available for students interested in teaching science on the secondary level. Interested students should follow the certification requirements outlined below.

| MAJC | or reg | QUIREMENTS 32-37 c | redits |
|---|--|---|----------------------------|
| 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 d | one co | ourse from each of the folk | owing |
| four t | racks: | - | .0 |
| Cell | and M | lolecular Biology | |
| BIO | 205 | Cell Biology | . 4 |
| BIO | 320 | General Bacteriology | 4 |
| BIO | 414 | Biology of Fungi | 4 |
| BIO | 421 | Developmental Biology | 4 |
| CHEN | 1327 | Biochemistry I | 4 |
| BIPY | 475 | Neuroscience | 4 |
| Orga | nisma | I–Plant | |
| BIO | 235 | Field Botany | 3 |
| | | | |
| BIO | 261 | General Botany | 4 |
| BIO BIO | 261 303 | General Botany Plant Anatomy | |
| | | | 4 4 4 |
| BIO | 303 | Plant Anatomy | 4 4 |
| BIO BIO BIO | 303 304 352 | Plant Anatomy Plant Physiology | 4 4 4 |
| BIO BIO BIO | 303 304 352 | Plant Anatomy Plant Physiology Economic Botany | 4 4 4 |
| BIO BIO BIO Orga | 303 304 352 nisma | Plant Anatomy Plant Physiology Economic Botany I —Animal | 4 4 3 |
| BIO BIO BIO Orga | 303 304 352 nisma | Plant Anatomy Plant Physiology Economic Botany I I – Animal Lower Invertebrate | 4 4 3 |
| BIO BIO BIO Orga BIO | 303 304 352 nisma 219 | Plant Anatomy Plant Physiology Economic Botany I I – Animal Lower Invertebrate Zoology | 4 4 3 4 |
| BIO BIO BIO Orga BIO | 303 304 352 nisma 219 | Plant Anatomy Plant Physiology Economic Botany I I – Animal Lower Invertebrate Zoology Higher Invertebrate | 4 4 3 4 |
| BIO BIO Drga BIO BIO BIO | 303 304 352 nisma 219 220 301 | Plant Anatomy Plant Physiology Economic Botany I-Animal Lower Invertebrate Zoology Higher Invertebrate Zoology Comparative Animal Physiology | 4 4 3 4 4 4 |
| BIO BIO Orga BIO BIO BIO BIO | 303 304 352 nisma 219 220 301 350 | Plant Anatomy Plant Physiology Economic Botany I-Animal Lower Invertebrate Zoology Higher Invertebrate Zoology Comparative Animal Physiology Animal Behavior | 4 4 3 4 4 4 |
| BIO BIO Drga BIO BIO BIO BIO BIO | 303 304 352 nisma 219 220 301 350 351 | Plant Anatomy Plant Physiology Economic Botany I – Animal Lower Invertebrate Zoology Higher Invertebrate Zoology Comparative Animal Physiology Animal Behavior Field Animal Behavior | 4 4 3 4 4 4 |
| BIO BIO Orga BIO BIO BIO BIO | 303 304 352 nisma 219 220 301 350 | Plant Anatomy Plant Physiology Economic Botany I-Animal Lower Invertebrate Zoology Higher Invertebrate Zoology Comparative Animal Physiology Animal Behavior | 4 4 3 4 4 4 |

Populational Biology

| BIO 306 General Genetics | | 4 |
|----------------------------|---|---|
| BIO 402 Limnology | | 4 |
| BIO 403 General Ecology | | 4 |
| BIO 444 Evolution | | 3 |
| BIO 445 Evolution Lab | | 1 |
| 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 chairman.

DIRECTED ELECTIVES

| CHEM 160 General Chemistry I | 4 | | |
|-------------------------------------|--------|--|--|
| CHEM 161 General Chemistry II | 4 | | |
| CHEM 308 Organic Chemistry I | 4 | | |
| CHEM 309 Organic Chemistry II | 4 | | |
| Plus one of the following two-ser | nester | | |
| COURSES: | | | |
| PHYS 255-256 College Physics I and | II 8 | | |
| PHYS 260-261 General Physics I and | 3 II 8 | | |
| Plus 6-8 credits in mathematics by | | | |
| advisement. | 6-8 | | |
| MINOR REQUIREMENTS 18-20 c | redits | | |
| | | | |
| , | 4 | | |
| BIO 164 General Biology II | 4 | | |
| Plus three additional biology cours | es, at | | |

Plus three additional biology courses, at least one of which must include a laboratory, by advisement.

NOTE: Students who wish to minor in biology are strongly urged to include in their background a basic course in statistics and one year of general chemistry.

CERTIFICATION REQUIREMENTS 44 credits

Students interested in obtaining teacher certification in comprehensive science must complete the following secondary education (K-12) requirements:

| PSY HSC | 110 120 | General Psychology Current Health Problems | 3 3 |
|------------|------------|--|--------|
| ELED | 310 | Educational Psychology: Adaptations and In- terventions in the | 3 |
| SED | 340 | Classroom Exploring the Teaching Field (A pre-student teaching field require- ment | 1 |
| SED | 302 | Discovering Your Teaching Self (K-12) | 3 |
| RLA | 329 | Foundations of Reading | 3 |
| rla | 330 | Reading Strategies for the Content Areas | 3 |
| SED | 301 | Curriculum and its Im- plementation | 3 |
| SED | 331 | Implementing Your Teaching Major (K-12) | 3 |
| SED | 451 | Educiation Lab: Crafts and Strategies in Earth Science (for biology and | 4 |
| EDUC | 403 | chemistry majors only) Culminating Field Ex- perience | 8 |
| SED | 404 | Instructional Seminar for | 1 |

| Commitment in | n Educa- | |
|---------------|----------|--|
| tion | | |

area:

SED

SED

30-32

391

| | tion | |
|--------|---|--|
| 432 | Human Adaptations and | 3 |
| | Alternatives in the School | |
| 482 | The Inner City Child and | 3 |
| | His Environment | |
| ne cou | urse from the professional pre | р- |
| n area | a: | |
| 323 | Modern Educational Me- | 3 |
| | dia | |
| 329 | The Competencies of | 3 |
| | Open Education | |
| 342 | Ecology for Educators | 3 |
| 380 | Insights and Outlooks in | 3 |
| | Education | |
| 428 | Simulated Laboratory Ex- | 3 |
| | perience in Secondary | |
| | Schools | |
| 430 | Teaching Literature to | 3 |
| • | Young Adults: Grades | |
| | 5-12 | |
| 480 | Field Research in Teacher | 3 |
| | Education | |
| | 482 ne cou 323 329 342 380 428 430 | 432 Human Adaptations and Alternatives in the School 482 The Inner City Child and His Environment ne course from the professional preprint area: 323 Modern Educational Media 329 The Competencies of Open Education 342 Ecology for Educators 380 Insights and Outlooks in Education 428 Simulated Laboratory Experience in Secondary Schools 430 Teaching Literature to Young Adults: Grades 5-12 480 Field Research in Teacher |

Plus one course from the human relations

381 Educational Sociology

Challenge, Change and

NOTE: PSY 110 and HSC 120 may be taken in partial fulfillment of liberal studies requirements.

Courses

Unless otherwise noted, all courses are for 3 credits.

BIO 110 Biology of Plants and Animals

The principles of ecology, the evolutionary history of life, the biological aspects of overpopulation and environmental pollution, the conservation ethic, and the future prospects of the human race.

Not open to biology majors.

Lecture and laboratory

BIO 112-113 General Anatomy and Physiology I and II

A study of the structural and functional relationships of the human body. First semester: Detailed study of the individual organism, cell functions, histology, integumentary, skeletal, muscular, respiratory, and circulatory systems. First-semester laboratory: dissection of the cat.

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

- Open to all; required of nursing majors. Not recommended for pre-med, pre-dental, or
- biology majors 4 credits each

Lecture and laboratory

Student Teaching

BIO 116-117 Basic Anatomy and Physiology I and II

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. First semester: Skeletal, muscular, respiratory, and circulatory systems. Second semester: nervous, digestive, reproductive, urinary, and endocrine systems.

Prerequisite: BIO 210 is prerequisite to BIO 211. Open to all; required of physical education majors. Not recommended for pre-med, pre-dental, or biology majors 3 credits each

Lecture and laboratory

BIO 120 Biology of Man

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. Lecture and laboratory

BIO 140 The Biosphere

A study of the living organisms in man's surroundings in terms of today's environmental crisis. The origin, evolution, and interrelationships among these organisms and the impact of man's past, present, and future activities on the biosphere. Required for environmental studies. Lecture only

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 immunitv.

Required for nursing majors; open to others; not open to students who have taken BIO 320

Lecture and laboratory

BIO 205 Cell Biology

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 214 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 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

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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. Lecture and field laboratory

BIO 235 Field Botany

A survey of the native seed plants commonly found in New Jersey environs. Emphasis on field work, identification of specimens in laboratory and field, and the taxonomic relationship of different species.

Prerequisites: BIO 163-164 or permission of the instructor

Lecture and 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 300 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 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

BIO 303 Plant Anatomy

A comparative study of the relationship of phylogeny, ontogeny and ecology to the anatomical and morphological variations among vascular plants. Prerequisite: BIO 261 or permission of the instructor

4 credits

Lecture and laboratory

BIO 304 Plant Physiology

Fundamental principles of plant physiology with emphasis on growth and develop-ment 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 312 Advanced Anatomy and Physiology

An introduction to advanced studies in human physiology. Stress on cardiology, circulation, acid-base balance, water balance and disorders of the nervous system. Prerequisites: BIO 212-213 or permission of the instructor 4 credits

Lecture and laboratory

BIO 320 General Bacteriology

This course is concerned with the structure and function of microorganisms with emphasis on bacteria and viruses. The cultivation of microorganisms, microbial physiology, microbial genetics, microbial ecology, immunology and virology are discussed.

Prerequisites: BIO 163-164, 1 year of chemistry

4 credits

Lecture and laboratory

BIO 323 Conservation

A critical survey of soil, water, biota, and air as basic resources to be conserved and utilized to yield maximum benefit to man. Emphasis on principles and issues involved in the management of these resources. Prerequisites: BIO 163-164 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 351 Field Animal Behavior

Aspects of animal behavior in laboratory and field. Students design and carry out self-selected research projects under faculty guidance to explore problems in animal behavior at the behavioral, physiological, and genetic levels.

Prerequisites: BIO 350 or PSY 460 and permission of the instructor

Lecture, laboratory and field

BIO 352 Economic Botany

The relationship between crops and human populations from both historical and biological perspectives. Essential features of plant structure and development as well as geographical and economical aspects are considered.

Prerequisite: BIO 261 or permission of the instructor

Lecture only

BIO 360 Plant Propagation and Growth

The methods and materials for the development and growth of various plant species presented, using the greenhouse for the preparation of the organisms. Prerequisite: 1 semester of biology

BIO 402 Limnology

A critical examination of the ecoloay of fresh water biota with special attention to the physical features of the environment. Surveys are made of streams, ponds, and lakes in the environs. Three all-day field trips included

Prerequisite: BIO 403 or permission of the instructor 4 credits

Lecture and field laboratory

BIO 403 General Ecology

Basic structural and functional aspects of our ecosystem, including detailed study at the community, population and organismal levels. Prerequisite: BIO 261 or permission of the

instructor 4 credits

Lecture and laboratory

BIO 405 Comparative Vertebrate Anatomy

The phylogenic history of each chordate system, including integument, skeleton, muscles, digestive tract, circulatory, excretory, respiratory, nervous, and reproductive systems. Laboratory includes dissection of representative chordates (lamprey, shark, necturus, cat).

Prerequisites: BIO 163-164 4 credits Lecture and laboratory

BIO 414 Biology of Fungi

Emphasis on microscopic species as they are found in different ecological environments; relationship to each other and the plant and animal kingdom as a whole. Prerequisite: BIO 261 or permission of the instructor 4 credits

Lecture and laboratory

BIO 421 Embryology

A study of vertebrate embryology; includes a brief comparison with the development of the starfish. 4 credits

Lecture and laboratory

BIO 444 Evolution

The history of evolutionary theory, heredity, populations, classification, speciation, adaptation, evidence for organic evolution, vertebrate and human evolution, and the problem of human population. Prerequisite: two years of biology Lecture only

BIO 445 Evolution Laboratory

Work with fossils, skeletal materials, variation. Museum trips and one or two Saturday field trips to several fossil locations. Prerequisite: two years of biology; may be taken at the same time as BIO 444, or subsequently. BIO 444 may be taken alone. 1 credit

BIO 480 Biology Seminar

Restricted to biology majors. Features indepth study of a selected topic. Each student selects one aspect of the topic, does library research on related literature, and prepares a written report of the findings which are delivered orally to the group as a basis for discussion. 1 credit

BIO 484 Scanning Electron Microscopy Theory and functioning of the SEM. Each student is required to carry out a project. Prerequisites: BIO 200, junior standing, and written permission of the instructor 4 credits Lecture and laboratory

BIO 485 Transmission Electron Microscopy

The principles and practice of transmission electron microscopy, including theory, electron optics, specimen preparation, operation of electron microscope, photography, related instruments and techniques. Prerequisites: Junior standing and written permission of the instructor 4 credits

Lecture and laboratory

BIO 497 Readings in Biology

Student studies a particular field of biology under the personal direction of a faculty member. See also courses listed under biopsychology. 1-3 credits

BIO 498 Field Experience in Biology

A supervised educational experience outside of the regular departmental program. Pass/fail course. 1-3 credits

BIO 499 Independent Study

Individual research projects under the direction of a faculty member. May be substituted for BIO 480. 1-3 credits

Department of Chemistry, Physics, and **Environmental Science**

Chemistry

Professors-S.C. Hyman, C.W. Lee, A. Merijanian, H. Sakal, A. Speert Associate Professors-G. Gerardi, R. Mc-

Callum, L.J. Rivela (chairman), G. Sharma

B.S. in Chemistry

The chemistry program is designed to provide students with the scientific knowledge and skills necessary to pursue a broad range of professional careers. The program leads to a B.S. and is certified by the American Chemical Society as meeting all the professional standards required for baccalaureate education in chemistry. A student is required to take major courses in the principal branches of chemistry: analytical, biochemistry, inorganic, organic and physical in addition to directed electives in mathematics, physics, computer science, biology and English. With a bachelor's degree in chemistry, a student is prepared to continue his education by enrolling in graduate programs in chemistry or other sciences, professional school programs (medicine, dentistry, osteopathy, podiatry, etc.), engineering, computer science, business administration and law. Entry-level positions in government, teaching and industry, which involve aspects of research, manufacturing, sales and management, are also immediate career options.

B.S. in Chemistry (American Chemical Society Certified)

| MAJOR REG | UIREMENTS | 54 credits |
|-----------|-----------------------|------------------|
| CHEM 160 | General Chemistry I | 4 |
| CHEM 161 | General Chemistry I | 4 |
| CHEM 201 | Analytical Chemistry | / 5 |
| CHEM 306 | Organic Chemistry I | 4 |
| CHEM 307 | Organic Chemistry I | 15 |
| CHEM 311 | Physical Chemistry I | 4 |
| CHEM 312 | Physical Chemistry II | 5 |
| CHEM 320 | Ínorganic Chemistry | 4 |
| CHEM 327 | Biochemistry I | 4 |
| CHEM 401 | Analytical | 4 |
| | Instrumentation | |
| CHEM 426 | Organic Spectrosco | |
| | Advanced Chemistr | / |
| | Electives (select two | , |
| | courses) | |
| CHEM 480 | Seminar in Chemistr | y _. 1 |
| | | |

| DIRECTE | D ELECTI | VES | 38 | credits |
|---------|----------|------------------|----|---------|
| BIO 16 | 53 Ger | neral Biology I | | 4 |
| BIO 16 | 54 Ger | neral Biology II | | 、 4 |
| CS 14 | 40 Cor | nputer Science | | 3 |
| ENG 30 |)0 Tecl | nnical Writing | • | • 3 |
| GER 1' | 10 Basi | c German I | | 4 |
| GER 1' | 11 Basi | ic German II | | • 4 |
| MATH 16 | 60 Cal | culus I | | 4 |
| MATH 16 | 51 Cal | culus II | | 4 |
| PHYS 26 | 50 Ger | neral Physics I | | 4 |
| PHYS 26 | 51 Ger | neral Physics II | | . 4. |
| | | | ~ | |

ADVANCED CHEMISTRY ELECTIVES

| | 4-6 | credits |
|------------|---------------------------|----------|
| CHEM 312 I | s a prerequisite for each | n of the |
| | vo courses are required. | |
| CHEM 321 | Advanced Inorganic | 3 |
| | Chemistry | |
| CHEM 403 | Physical Chemistry III | 3 |
| CHEM 421 | Advanced Organic | 3 |
| | Chemistry | |
| CHEM 499 | Independent Study | 1-3 |
| | | |

Course Sequence/ACS Certified Program

FRESHMAN YEAR **First Semester** BIO 163 General Biology I **CHEM 160** General Chemistry I ENG 110 Writing Effective Prose MATH 160 Calculus I Second Semester BIO 164 General Biology II-CHEM 161 General Chemistry II MATH 161 Calculus II Liberal Studies Course SOPHOMORE YEAR **First Semester** CHEM 201 Analytical Chemistry CHEM 306 Organic Chemistry I General Physics I PHYS 260 Liberal Studies Course Second Semester CHEM 307 Organic Chemistry II CS 140 Computer Science I PHYS 261 General Physics II Liberal Studies Course JUNIOR YEAR **First Semester** CHEM 311 Physical Chemistry I . CHEM 327 Biochemistry I ENG 300 Technical Writing GER 110 Basic German I Second Semester Physical Chemistry II CHEM312 CHEM 320 Inorganic Chemistry Liberal Studies Course GER 111 Basic German II

SENIOR YEAR

First Semester CHEM 401 Analytical Instrumentation Advanced Chemistry Elective (see below) Chemistry and free electives

Second Semester

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| CHEM 426 | Organic Spectroscopy | 4 |
|-------------------------------|----------------------------|--------|
| CHEM 480 Seminar in Chemistry | | 1 |
| | Chemistry and free | 9 |
| | electives | |
| | ómistr unbusios oquirsos m | unt ho |

Note: All chémistry-physics courses must be taken in the fall or spring. Liberal studies courses may be taken in pre-session or summer school.

B.S. in Chemistry

| MAJOR REG | QUIREMENTS 43-44 cr | edits |
|------------------------|--|------------------|
| CHEM 160 | General Chemistry I | 4 |
| CHEM 161 CHEM 201 | General Chemistry II Analytical Chemistry | 4 5 |
| CHEM 306 | Organic Chemistry I | 4 |
| CHEM 307 CHEM 311 | Organic Chemistry II Physical Chemistry I | 5 4 |
| CHEM 312 | Physical Chemistry II | 5 |
| CHEM 320 | Inorganic Chemistry | 4 |
| CHEM 327 | Biochemistry I Advanced Chemistry | 4 3-4 |
| | Electives* | |
| CHEM 480 | Seminar in Chemistry | 1 |
| DIRECTED E | | |
| BIO 163 BIO 164 | General Biology I General Biology II | 4 4 |
| CS 140 | Computer Science | 3 |
| ENG 300 | Technical Writing | 3 |
| Math 160 Math 161 | Calculus I Calculus II | 4 4 |
| PHYS 260 | General Physics I | 4 |
| PHYS 261 | General Physics II | 4 |
| *ADVANCE | O CHEMISTRY ELECTIVE | |
| | 1-4 cr | edits |
| | e of the following: | |
| CHEM 321 | Advanced Inorganic Chemistry | 3 |
| CHEM 322 | Environmental Chemistry | . 4 |
| CHEM 328 CHEM 401 | Biochemistry II | 3 4 |
| CHEIVI 40 I | Analytical Instrumentation | 4 |
| CHEM 403 | Physical Chemistry III | 3 3 |
| CHEM 421 | Advanced Organic Chemistry | 3 |
| CHEM 423 | Chemistry of Natural | 4 |
| CHEM 426 | Products Organic Spectroscopy | 4 |
| CHEM 499 | Independent Study | 1-3 |
| | | |
| Course | Sequence/B.S. Progr | am |
| FRESHMAN | | |
| First Semes BIO 163 | ter General Biology I | ٨ |
| | General Chemistry I | 4 4 3 4 |
| ENG 110 | Writing Effective Prose | 3 |
| MATH 160 | | |

Second Semester

| BIO | 164 | General Biology II | .4 |
|------|------|------------------------|----|
| CHEM | 1161 | General Chemistry II | 4 |
| MATH | 161 | Calculus II | 4 |
| • | | Liberal Studies Course | 3 |
| | | | |

| First Semest CHEM 201 CHEM 306 PHYS 260 | For Analytical Chemistry Organic Chemistry I General Physics I Liberal Studies Course | | | |
|--|--|--|--|--|
| Second Ser CHEM 307 CS 140 PHYS 261 | mester Organic Chemistry II Computer Science I General Physics II Liberal Studies Course | | | |
| JUNIOR YEA First Semes CHEM 311 CHEM 327 ENG 300 Second Set | ter Physical Chemistry I Biochemistry I Technical Writing Liberal Studies Course mester | | | |
| CHEM 312 CHEM 320 | Physical Chemistry II Inorganic Chemistry Liberal Studies Courses | | | |
| SENIOR YEAR First Semester Advanced Chemistry | | | | |

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|------------|------------------------|-----|
| | Advanced Chemistry | 3-4 |
| | Elective | |
| | | - |
| | Liberal Studies Course | 3 |
| | Chemistry and free | 0 |
| | | 7 |
| , | electives | |
| Second Sei | mester | |
| | | |
| CHEM 480 | Seminar in Chemistry | 1 |
| | Chemistry and free | 14 |
| | | |

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

electives

CERTIFICATION REQUIREMENTS 44 credits

Students who are interested in obtaining certification in comprehensive science must complete the sequence on page 93.

| CHEMI | STRY MINC | DR | 18 c | redits |
|--|-----------|-------------|---------|--------|
| CHEM ' | 160 Gen | eral Ċhemis | stry I | 4 |
| CHEM ' | 161 Gen | eral Chemis | strý II | 4 |
| Plus an additional 10 credits in chemistry by advisement. 10 | | | | |
| NOTE: | Students | choosing | a min | or in |

chemistry are strongly urged to elect the following: MATH 160, 161, PHYS 260, and PHYS 261. Courses

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Unless otherwise noted, all courses are for 3 credits

CHEM 110 Crisis of the Environment Considers issues, means and ethics of uncontrolled utilization of chemicals. Lecture only.

CHEM 120 Principles of Chemistry

The concepts and principles of general, organic, and biochemistry. Primarily intended for health science and liberal studies student.

Lecture only.

CHEM 159 Introductory Chemistry

An introduction to the concepts, principles and terminology of chemistry. Designed primarily for students who have little or no background in the fundamentals of chemistry, who wish to learn the basics of chemistry, or who wish to meet the requirements of CHEM 160. Not a liberal studies course.

Lecture only.

CHEM 160-161 General Chemistry I and II

The electronic structure of atoms, molecular structure and chemical bonding, the states of matter, solutions, reaction rates and chemical equilibrium, ionic equilibria, thermodynamicccccs. Acidbase, electrochemistry and coordination compounds. Laboratories must be taken concurrently. 4 credits each Lecture and lab

CHEM 164 College Chemistry

Concepts of atomic and molecular structure and reactivity, rates and equilibria, and organic chemistry. Part of a terminal sequence with CHEM 165. 4 credits

Lecture and lab

CHEM 165 Organic Biochemistry

Introduces concepts of organic chemistry and biochemistry; emphasizes metabolism and its control in the context of physiological chemistry. A terminal course. Prerequisite: CHEM 164 4. credits Lecture and lab

CHEM 201 Analytical Chemistry

The theory and methods of quantitative analytical chemistry with emphasis on chemical equilibrium and practical laboratory experience. Prerequisite: CHEM 161 5 credits Lecture and lab

CHEM 306-307 Organic Chemistry I and II (for chemistry majors)

CHEM 308-309 Organic Chemistry I and II (for biology majors)

Studies the chemistry of carbon compounds including preparative methods and reaction mechanisms. Emphasizes structural 'analysis by physical and spectroscopic methods.

Prerequisite for each: CHEM 161 4 credits each: CHEM 306, 308, 309 5 credits: CHEM 307 Lecture and lab

CHEM 311-312 Physical Chemistry I and II Chemical thermodynamics, behavior of gases, phase rule, reaction kinetics, electrochemistry, and introductory quantum mechanics.

Prerequisites: MATH 160, 161, PHYS 260, 261 I-4 credits II-5 credits

CHEM 320 Inorganic Chemistry

Systematic study of the elements and their compounds with special reference to their location in the periodic table. Prerequisite: CHEM 161 4 credits Lecture and lab

CHEM 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 307 or 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 307 or 309 Chemistry and biology majors elective 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 307 or 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 421 Advanced Organic Chemistry

Advanced study of organic chemistry with deliberate emphasis on reaction mechanisms, principles of electronic theory and its application to an understanding of organic mechanisms.

Prerequisites: CHEM 307 or 309 and CHEM 312

Lecture only

CHEM 423 Chemistry of Natural Products Major classes of natural products of plant origin and the theory of biogenesis. Methods of identification and structural elucidation of natural products. Prerequisite: CHEM:307 or 309

4 credits Lecture and lab

CHEM 426 Organic Spectroscopy

Introduces the theory and application of spectroscopy to the structure determination of organic molecules. Prerequisites: CHEM 307 or 309 and CHEM 312

4 credits

Lecture and lab

CHEM 480 Seminar

A study of specialized problems in chemistry and an introduction to the chemical literature. 1 credit

CHEM 499 Independent Study

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

Professors — E. Woodward, S.La Assistant Professors — J. Bufano, T. Darkhosh

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 · | Bindional Equations | 3 | | |
| PHYS 260 | General Physics 1 | 4 | | |
| PHYS 261 | General Physics II | • 4 | | |
| PHYS 300 | Mechanics | ·. 3 | | |
| PHYS 302 | Electricity and | 3 | | |
| | Magnetism , | · . | | |
| PHYS, 480 | Seminar | 1 | | |
| | Elective in Physics (by | 3-4 | | |
| | advisement) | | | |
| | ditional courses in chemist | ry by | | |
| advisement | | . 8 | | |
| RECOMMENDED ELECTIVES 22 credits | | | | |
| CS 140 | Computer Science I | · 3· | | |
| MATH 231 | Statistics I for Science | . 3 | | |

| MATH | 231 | Statistics I for Science | | . 3 |
|------|-------|--------------------------|----|-----|
| | | Majors | ۰. | |
| PHYS | 250 | Basic Electronics I | | 3 |
| PHYS | 301 ° | Thermal Physics | | 3 |
| PHYS | 304 | Optics | | · 4 |
| PHYS | 403 | Modern Physics I | • | 3 |
| PHYS | 404 | Modern Physics II | | · 3 |
| | | • • | | |

Courses

Unless otherwise noted, all courses are for 3 credits.

PHYS 110 Introduction to Physical Science Designed to give the non-science student an adequate understanding of the nature of science and of the fundamental physical laws which govern our everyday lives. Topics include forces, motion, heat energy, electricity, atomic energy, and fundamental ideas in chemistry. Laboratory work is closely integrated with the above topics. 2 hours lecture, 2 hours lab

PHYS 165 Energy and Earth's Natural Resources

The energy demand in human development. The availability and use of energy resources such as oil, natural gas, solar energy, and fission fuels. The way in which hydro, thermal, and nuclear forms of energy are converted into mechanical and electrical energy. Proposed and speculative methods of meeting the energy crisis and their environmental impact.

3 hours lécture

PHYS 170 General Astronomy

A trip from the earth to the edge of the universe. A non-mathematical study of our nearest star, the Sun, with its planets and their moons. Star counts and the structure of our island universe of stars and dust and gas. Readings on the "Big Bang" theory of how thousands of galaxies were scattered at fantastic speeds. Not open to students who intend to take or have taken any other astronomy course.

2 hours lecture, 2 hours lab

PHYS 222 Solar System

The nature of our earth as a planet. Its seasons and motions made simple by use of the celestial globe; a study is made of conditions on the sun, the moon and the planets. Monthly laboratories (optional) are held after nightfall to view the brighter constellations, the more important nebulae and clusters, and the moon and planets through the telescope. A minimum of mathematics.

2 hours lecture, 2 hours lab

PHYS 250-251 Basic Electronics I and II

The general philosophy of electronics as a "way of life" and its function as a basic tool in our present scientific culture. Fundamentals of electronics including basic components and circuit configurations. Actual circuits are assembled, tested and their behavior explored. A descriptive laboratory course in basic electronic circuits without the use of extensive mathematics. Prerequisite: PHYS 110 or permission of the

instructor 3 credits each

2 hours lecture, 2 hours lab

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, 3 hours lab

PHYS 260-261 General Physics I and I

The basic course for physics, chemistry and mathematics majors and a foundation for all advanced work in physics. Topics: introduction to vectors, statics, kinematics, work and energy, impulse and momentum, rotational motion, elasticity, harmonic motion, sound and acoustics, electrostatics, DC and AC electric circuits and instrumentation, magnetostatics, electromagnetic waves, geometrical and physical optics, polarization and an introduction to modern physics.

Corequisites: MATH 160, 161 4 credits each

3 hours lecture, 3 hours lab

Designe an adeo

PHYS 270 Sound and Acoustics

Intended primarily for music majors and liberal arts students interested in music. Shows how the theory of sound is utilized in sound production, reproduction and reception. Topics include sound waves, modes of wave generation, reception frequency and pitch, scales, tuning and temperament, acoustics, production of musical sounds by instruments and by electronic methods.

Prerequisite: PHYS 110 or permission of the instructor

3 hours lecture/demonstration

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.

Prereauisite: PHYS 261: Coreauisite: MATH 319

4 credits

3 hours lecture

PHYS 301 Thermal Physics

Develop the principles of classical thermodynamics from the dynamics of many-body systems following the approach of Gibbs. The consequences of these principles are studied in a variety of situations drawn from physics, chemistry and related fields. Prerequisite: PHYS 300 3 hours lecture

PHYS 302 Electricity and Magnetism

Basic course covering the fundamental concepts of electricity and magnetism. Topics: vector mathematics, electrostatics, solution of electrostatic problems, dielectric materials, circuitry and solution of networks, magnetostatics, electromagnetic induction, magnetic materials, atomic origin of magnetism, ferromagnetic materials, introduction to field theory. Prerequisite: PHYS 300

PHYS 304 Optics

Theoretical and experimental aspects. Topics: reflection and refraction, plane and spherical surfaces, thin lenses, field stops and aperture stops, ray-tracing, aberrations, optical instruments, nature of light waves, superposition and interference, Fresnel and Fresnel and Fraunhofer diffraction, diffraction gratings, Cerenkov radiation, nature and origin of polarization. Prerequisite: PHYS 302

4 credits

3 hours lecture, 3 hours lab

PHYS 333 Stars

A study of the sun as a star in the Milky Way galaxy. Eclipses, multiple stars, variable stars, gaseous nebulae, theories concerning composition, origin and evolution of the universe. A minimum of mathematics. 2 hours lecture

PHYS 400 Electromagnetic Fields and Radiation

Maxwell, Laplace and Poisson equations are developed and applied. Scalar and vector potentials. Boundary value problems. Introduction to radiation theory. Prereauisite: PHYS 302 3 hours lecture.

PHYS 403 Modern Physics I

Spectroscopic and other representative phenomena that form experimental foundation 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, auantum mechanical description of a particle, elementary theory of nuclear structure and reactions. Prerequisite: PHYS 300 3 hours lecture

PHYS 404 Modern Physics II

Fundamental principles and applications of guantum mechanics. Topics: derivation of Schrodinger's equation: mathematical properties of wave functions; applications to simple atomic structure, to potential barrier problems, to perturbation theory, to anomalous Zeeman effect, and to band theory of conduction electrons. Prerequisite: PHYS 403 3 hours lecture

PHYS 410-411 Electronics | and ||

An applied course emphasizing the experimental nature of electronics. Topics: DC and AC circuits, voltage and current regulators, special circuits, semi-conductor circuit elements, diodes and transistors, transistor circuitry, negative feedback and applications, oscillators, switching circuitry, wave-form generators. Prerequisites: PHYS 260, 261 4 credits each

3 hours lecture, 3 hours lab

PHYS 480 Seminar

Emphasis on research; current literature and classroom discussion of new ideas. Prerequisite: permission of the instructor 1 credit

PHYS 499 Independent Study

As approved and to be arranged 1-3 credits

Environmental Studies

Professor: C.W. Lee, program director Associate Professors: J. Edwards, R. Mc-Callum

Assistant Professors: R.B. Harde, R.Smith

The environmental studies program is an interdisciplinary, comprehensive course of study that presents an understanding of the interrelationships among the scientific, sociological, economic and political aspects of environmental concerns.

Requirements for the major include a firstsemester freshman foundations course; a set of three one-year long "core" courses: Ecosystems, Resources, and Social and Human Interactions; field experience (an internship with an environmental agency); a land-use course; a junior seminar in which current articles are critically evaluated orally and in writing; senior seminars, featuring a team approach to a practical problemsolving effort; and such major electives as topographic analysis, pollution measurements, soil science, hydrology and computer applications. Additionally, the student must fulfill the requirements for a second major field of study.

| MAJOR REQUIREMENTS45 creditsA. Interdisciplinary22 creditsCourses*22 | | | | |
|--|------------|--|-----------------------|--|
| ENV , | 110 | Environmental Foundations I (Prerequisite to Core I, II, and III) | 3 | |
| ENV ENV | 010 210 | Environmental Workshop Core IA, Ecological Dynamics | 1 3 | |
| ENV | 211 | Core IB, Ecological Toxicology | 3 | |
| ENV | 230 | Core IIA, Resources— Sources, Systems and Trash | .3 | |
| ENV | 231 | Core IIB, Resources— Sources, Systems and Trash | 3 | |
| ENV | 240 | Core IIIA, Social and Human Interactions | 3 | |
| ENŲ | 241 | Core IIIB, Social and Human Interactions | 3 | |
| B. Me Electi | | 11 credits (minimu | ım) | |
| ENV | 120 | Physical Geology | 4 | |
| ENV | 150 | Meteorology | 3 | |
| ENV | 175 | Hydrology | 4 3 3 4 3 | |
| ENV | 201 ່ | Topographic Analysis | 4 | |
| ENV , | 330 | Community Planning and Design | 3 | |
| **EN\ | / 370 | Soil Science | 4 | |
| **EN\ | / 390 | Pollution Measurements | 4 | |

ENV 450 Computer Applications

.

3

| | | · . | | |
|--|-----|--------------------------|-----|--|
| C. Major Required Courses 12 credits | | | | |
| ENV | 301 | Field Experience | 3 | |
| ENV | 380 | Junior Seminar | 2 | |
| ENV | 389 | Environmental Factors in | ı 3 | |
| | | Land Use | | |
| ENV | 480 | Senior Seminar | 2 | |
| ENV | 481 | Senior Seminar | · 2 | |
| These estimates and also be used for the series whether are dis- | | | | |

These courses can also be used for liberal studies credit. Core courses can be taken simultaneously in combination with one another. As a year sequence, the student is required to take the A portion before the B portion: e.g., Core IA before Core IB.

*CHEM 160-161, or equivalent, is a prerequisite †Must include ENV 370 and/or ENV 390.

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 chairman of the second major is available. Both also guide students in their choices of electives.

Liberal Studies Requirements

Majors must earn a grade of "C" or better in ENG 110 Writing Effective Prose by the beginning of the third (junior) year. In addition, majors are required to take a second semester of writing e.g., ENG 300 or ENG 330, and a course in public speaking, eg. COMM 110 Communication in Action, to fulfill the program's goal of increasing the student's communicative skills.

All other requirements are according to the College's liberal studies 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 REQUIREMENTS50 creditsEarth Sciences18 credits | | | | |
|------------|---|---|--------|--|--|
| ENV ENV | 120 121 | Physical Geology Historical Geology | 4 4 | | |
| | Plus at least 10 credits chosen from the following by advisement: | | | | |
| ENV | 175 | Hydrology | 3 | | |
| ENV | 315 | Introduction to Oceanography | 3 | | |
| ENV ENV | 327 328 | Geomorphology Mineralogy and | 3 4 | | |
| ENV | 329 | Petrology Stratigraphy and | 3 | | |
| env Env | 370 420 | Sedimentation Soil Science Structural Geology | 4 4 | | |
| Direc | ted El | ectives 32 c | redits | | |
| BIO | 163 | General Biology i | 4 | | |
| BIO | 164 | General Biology II | 4 | | |
| CHEN | | General Chemistry I | 4 | | |
| MATH | /161 | General Chemistry II Calculus I | 4 | | |
| MATH | | Calculus I | 4 4 | | |
| PHYS | | General Physics I | 4 | | |
| PHYS | | General Physics II | 4 | | |

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

| I. FRE Fall | SHMAN | N YEAR 30-31 | credits · |
|----------------|-----------------|---|--------------------|
| ENV | 110 | Environmental Foundations I | 4 |
| ENG | 110 | Writing Effective Prose Liberal Studies Option | 3 3 3* 2* |
| Sprin ENV | g 230 | Core IIA Resources | · · 3 |

| ENV 230 | Core IIA Resources | 3 |
|----------|--------------------|-----|
| COMM 110 | Comm. in Action | 3 |
| | Major Elective | 3-4 |
| | - | 2* |

| II. SC Fall | PHOM | ORE YEAR | 30 credits |
|----------------|-------|--|------------------|
| ENV | 231 | Core IIB: Resources | 3 |
| ENV | 210 | Core IA: Ecological Dynamics | 3 |
| ENV | 240 | Core IIIA: Social and Human Interaction | |
| | . • • | | <u>3</u> * 3* |

| Spring | g | | | |
|-----------------|-----------|----------------------------------|---------------------------------|--|
| ENV | 211 | Core IB: Ecological | 3 | |
| | • | Toxicology | | |
| ENV | 241 | Core IIIB | 3 | |
| | ۰. | · · · | 3* 3* | |
| | | , | . 3* | |
| | | | 3* | |
| III. JU Fall | | YEAR | 30 credits | |
| ENG or | 300 | • | | |
| ENG | 330 | Technical or Critical Writing | 3 | |
| ENG | 389 | Environmental Facto | ors in 3 | |
| | | | 3* | |
| | | • | 3* | |
| | | | 3* 3* 3* | |
| Spring | | | | |
| ENV | 301 | Field Experience | 3 | |
| ENV | 380 | Junior Seminar | 2 | |
| | | | . 4 | |
| | | | 3 2 4* 3* 3* | |
| | , | | J | |
| IV. SE Fall | NIOR | YEÄR | 30 credits | |
| ENV | 480 | Senior Seminar | 2 | |
| | | | 4* | |
| | | | , 3 * | |
| | | , | 2 4* . 3* . 3* . 3* | |
| | • | | 3* | |
| Spring | | | _ / | |
| ENV | 481 | Senior Seminar | 2 | |
| | | | 4* | |
| | | | 3 | |
| | | | 2 4* 3* 3* 3* | |
| *Course | as in the | second major, math or lab | - | |
| Course | | second major, main of lab | | |

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 interrelations among these disciplines, both in the definition of the problems and in the student's understanding of why and in what forms such problems exist.

The biosphere and all of its integral components are explored as intertwining dynamic systems that exchange energy and matter in accordance with the principles of physical sciences.

The following will also be 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 the solutions to these problems.

4 credits

3*

3*

3 hours lecture and discussion, 2-1/2 hours workshop

ENV 010 Environmental Workshop

A companion workshop course for ENV 11U. Designed to provide hands-on experience to typify, amplify and illustrate the general concerns and principles taught in ENV 110. The course has three main modules:

- Natural Resources deals with physical and biological measurements and provides an aesthetic appreciation for the overall ecological principles presented.
- Cultural Resources involves research methods utilizing both library and nonlibrary (local government) sources.
- 3. Data Presentation introduces the methodology of tabulation and representation of data in graphical and map form.

1 credit 🦾

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

2 hours lecture, 2 hours lab

ENV 120 Physical Geology

The nature and structure of the earth, the materials composing it, its place in the solar system, and the forces operating on and within it. Includes plate tectonics, seafloor spreading, the origin of mountains and volcances, the cause of earthquakes, and the work of running water, wind, waves, glaciers and ground water. In the laboratory and through field trips, the student becomes acquainted with common rocks and minerals, the use and interpretation of topographic maps and aerial photographs, and the work of the various geological processes which change the landscape.

4 credits

3 hours lecture, 2-1/2 hours lab

ENV 150 Meteorology

Weather changes, the structure and composition of the atmosphere, the sun's effect on weather and climate and the processes within the atmosphere. Air mass movements, fronts, and tropical and extratropical storms. In the laboratory: the instruments used in weather observation, forecasting, and the study of daily weather maps.

2 hours lecture, 2 hours lab

ENV 175 Environmental Hydrology

The hydrologic cycle which includes precipitation, interception, evaporation, water use by plants, soil water and ground water. Emphasis on the effect of humans on the cycle including water supply and use, flooding, sewage treatment, irrigation, and drainage. Techniques for measuring hydrologic events and predictive calculations used to meet water supply and drainage needs.

2 hours lecture, 1 hour lab/field work

ENV 201 Environmental Topographic Analysis

The fundamentals for assessment of the impact of proposed structures and land form modifications on the human environment. Includes: surveying, basic engineering, mathematics, map construction and interpretation, elements of topographic drafting, photogrammetric studies, plats, site plans and field work to prepare the various exhibits essential for environmental analysis.

4 credits

2 credit lecture/2 credit lab and field work

ENV 210, 211 Ecosystems (Environmental Core 1A, 1B)

This sequence covers the basic fundamentals of what constitutes an ecosystem and the application of quantitative measurements in this area. An in-depth approach substantiates how and why problems can exist in our ecosphere and challenges the student's curlosity to evaluate alternative solutions.

Core IA emphasizes the dynamic ecological principles: energy flow, nutrient cycling, pathways of pollutants and the effects of human interactions. These are used to illustrate the importance of our relationships to the natural environment.

Core IB acquaints the student with the consequences of chemical stress upon the structure and function of ecosystem components and their interrelationships. Includes some fundamentals of hazard assessment—scientific judgment of the probability of harm resulting from the manufacture, transport and disposal of contaminants.

Prerequisites: ENV 110 and ENV 210 before ENV 211

3 credits each

ENV 220 Historical Geology

The study of the origin and evolution of the earth and life as revealed by the geological record in the rocks. Includes the concepts of plate tectonics and sea-floor spreading, the origin, growth, and drift of the continents, the rise and fall of mountain ranges, the advance and retreat of the seas and glaciers, and the evolution of plants and animals as shown by the fossil record. Major emphasis on the geological history of North America. Prerequisite: ENV 120 4 credits

2-1/2 hours lecture, 3 hours lab

ENV 225 Mineralogy and Petrology

Crystallography, mor-phology, and physical properties of minerals as related to their crystal structure and chemical properties and the identification and classification of the more important rock-forming and oreforming minerals. The origin, composition, . and classification of ianeous, sedimentary, and metamorphic rocks with emphasis on the geologic interpretations that can be made from their occurrence. In the laboratory: The identification of rocks and minerals, particularly those of economic or environmental significance, and the study and classification of specimens collected on field trips. 4 credits

3 hours lecture, 2-1/2 hours lab

ENV 227 The Geology of New Jersey

The geological materials and processes which have formed the land features evident in New Jersey and its environs. Emphasis on field trips and laboratory work. Study of the Palisades sill, the Watchung and the Ramapo Mountains, glacial moraines, and the Appalachian geosyncline.

2 hours lecture, 2 hours lab

ENV 230-231 Resources (Environmental Core IIA and IIB)

In this sequence, resources are treated as flows of energy and matter from environmental sources, through natural and manmade systems, and back to the heat and waste sinks in the environment.

The fundamental laws of physical science governing these processes are developed and applied to particular cases. A global perspective is emphasized with respect to water and soil resources, as well as to the limiting capacities of air, earth and water to recycle the wastes of both natural systems and industrial societies.

This course uses a quantitative approach to all subjects and makes use of the perspectives and techniques of physics, geology and chemistry to describe and evaluate the world's resources.

Prerequisites: ENV 110; ENV 230 before ENV 231

3 credits each

ENV 240-241 Social and Human Interactions (ENvironmental Core IIIA and IIIB)

Core IIIA: The variety and complexity of human/environment relationships. Provides students with a basic knowledge of the elements of human cultural systems that interact with the environment, accomplished through presentations of appropriate topics from the disciplines of psychology, law, economics, anthropology and sociology.

Core IIIB: Housing and urban behavior, issues in human demography, various economic factors, the legislative base and cultural resource management. Emphasis on the analysis of specific problems and cases. Students are required to complete a major case-oriented project during the semester.

Prerequisites: ENV 110; ENV 240 before ENV 241

3 credits each

ENV 301 Field Experience

This course places the student in an active working experience with either a professional agency, a business or a municipal body involved in some pertinent work related to the environment. Objectives are to expand the students' backgrounds and their appreciation of the field, give them first-hand experience and introduce them to potential employers or help them identify areas of specialization for graduate study. Students must work a minimum of one full day per week with the agency to fulfill an on-the-job requirement. This requirement can also be fulfilled by a cooperative education placement with the program director's recommendation.

ENV 315 Introduction to Oceanography

The study of the origin, evolution and extent of the oceans; waves, currents, tides, and tsunami; the plant and animal life of the sea, the nature and topography of the sea floor; recent discoveries relating to sea floor spreading and continental drift; the role of the oceans in weather and climate.

Prerequisite: 1 year of science or permission of the instructor

2 hours lecture, 2 hours lab

ENV 327 Geomorphology

The nature, origin, and evolution of landscapes and materials at or near the surface of the earth and the processes which bring about changes. The nature and properties of soils and the role of man and his activities.

Prerequisites: ENV 220, 225 or permission of the instructor

2 hours lecture, 2 hours lab

ENV 329 Stratigraphy and Sedimentation

The origin, occurrence, and classification of sedimentary rocks, recognition of depositional environments, introduction to the methods used in stratigraphy and geochronology, and the use of sedimentary structures in the interpretation of the geological record. Includes field trips to areas of interest in New Jersey, New York and Pennsylvania.

Prerequisite: ENV 220 or permission of the instructor

2 hours lecture, 2 hours lab

ENV 330 Community Planning and Design

An introduction to the types and processes of community planning, development and redevelopment, and the constituent components of the built environment. The forms and shapes of contemporary human settlement are reviewed, as are the mechanisms of decision-making at various levels of jurisdiction, such as affect community planning and design vis-a-vis the impact on the natural environment.

Objectives: to develop familiarity with the terminology and visual language of community planning and design, enlarge the understanding of the forms and functions of the various kinds of land uses, and develop skills in the inventorying and analysis of data, and how to communicate the latter in graphic terms.

2 hours lecture, 2-1/2 hours studio

ENV 370 Soil Science

The fundamentals of soil science. Topics: soil genesis and classification; its physical and chemical properties; soil microbiology, soil types found in New Jersey, human uses of soils and an overview of historical and current agricultural practices. Laboratory emphasizes hands-on experience, with physical and chemical measurements. Prerequisite: CHEM 160 or 164

2 hours lecture, 2 hours lab

ENV 380 Junior Seminar

Designed to give third-year students a chance to reflect upon their reasoning processes and learn how to critically evaluate a number of topics of major environmental concern. Methods of critical evaluation are taught as a means of investigating the logic and reasoning behind ideas and concepts. Arguments are analyzed for format, logic, justification and persuasiveness. Students have the opportunity to study independently a problem selected in consultation with the instructor. All students are expected to take an active part in the discussions, evaluations and debates.

2 credits

ENV 389 Environmental Factors in Land Use

Introduces the subject of the use and misuse of land, the consequent need for governmental review and regulation and the important role of a Natural Resource Inventory (NRI) in that process.

Surveys the components of an N.R.I. and shows how portions of one are compiled. Final class sessions are devoted to students' oral presentations of their semester projects.

Prerequisite to the senior seminars. 3 hours lecture.

ENV 390 Environmental Pollution 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. Students learn through the use of maps and cross sections, aerial photographs, and the Brunton compass and other instruments in the laboratory and on field exercises. Prerequisites: ENV 225 and PHYS 255-256 or 260-261 or permission of the instructor 4 credits

3 hours lecture, 2-1/2 hours lab

ENV 450 Environmental Computer Applications

The application of computer programming in the systems approach to large-scale planning and coordination projects. Students learn why and how the systems approach is best used in the formulation and implementation of environmental policies. "BASIC" language is taught, and students are introduced to simple and advanced techniques for plotting curves on the terminals. 2 hours lecture, 1-1/2 hours lab Prerequisite: A course in computer science

THE SCHOOL OF SCIENCE

ENV 480-481 Senior Seminar

Student task force groups participate in a common project utilizing the methodologies and skills learned in the classroom, Included are graphic and communicative skills, data collection and evaluation, as well as field and laboratory techniques. Different specialized capabilities via the student's second major are also brought to bear upon the project. An example of such a project is the compilation of a natural resource inventory for a neighboring community.

The subject of the study is selected by the instructor, but the student's role in the team study is jointly determined by both the student and the instructor. Student and instructor maximally seek to simulate the working conditions of a professional consultant team engaged in a practical project. Regular work meetings are held during class time with a formal presentation at the end of the semester.

Prerequisite: ENV 389 and ENV 480 before ENV 481

2 credits each

Summer Studies at the New Jersey Marine Sciences Consortium

WPC holds membership in the consortium, and WPC students may take formal courses for academic credit in marine sciences at Sandy Hook or the Seaville Field Station. These courses are given from June through August and are primarily undergraduate courses for sophomore through senior levels. Independent study in the marine sciences is offered at undergraduate and graduate levels. Course offerings vary somewhat from year to year, but the following are usually repeated; introduction to marine sciences; oceanography, basic scuba (NAUI certification), basic sailing, marine biology, ecology of the estuary (graduate only) and coastal marine geology.

Additionally, series of short courses in sailing and seamanship, ranging from basic sailing through cruising workshop, are offered in cooperation with the Center for Ocean Studies at Gardner's Basin, Atlantic City. Department of Mathematics

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

Associate Professor—G. Dixon Assistant Professors—N. Assimakopoulos, J. Coomes, H. Dehlinger, B. Eastman, M. Hastings, S. Hyman, M. Jani

The Department of Mathematics offers courses in principal branches of mathematics which prepare majors for professional careers and serve students in other departments.

The program, leading to a bachelor of arts degree, prepares the student in the basic concepts of mathematics and, at the same time, provides him with the opportunity to elect courses consonant with his professional objectives. A secondary school certification program is available.

Generally, a mathematics major takes MATH 160 and MATH 161 in the freshman year. Four years of high school preparatory mathematics, including trigonometry through inverse functions, is a prerequisite for MATH 160. Students not meeting this requirement; but who have three years of high school mathematics including a second year of algebra, should take MATH 156. 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 REG | UIREMENTS 33 cre | edits |
|--------------|---------------------------|------------------|
| MATH 160 | Calculus | 4 |
| MATH 161 | Calculus II | 4 |
| MATH 200 - | Logic and Discrete | - 3 |
| : | Mathematics | ••• |
| MATH 201 | Calculus III | 4 |
| MATH 202 | Linear Algèbra | 3 |
| Math 301 | Modern Algebra | 3 3 3 |
| Math 302 | Advanced Calculus I | 3 |
| | dditional credits from am | ong |
| the followin | | |
| MATH 303 | Advanced Calculus II | ÷ 3 |
| Math 322 | Differential Equations | 3 3 3 3 |
| MATH 323 | Foundations of Geometry | 3 |
| Math 324 | Probability | ્ર |
| Math 325 | Topics from Applied | 3 |
| | Mathematics | |
| Math 332 | Statistical Computing | 3 |
| MATH 380 · | | 3 |
| | and Applications | |
| Math 399 | Selected Topics | 3-4 |
| Math 401 | Applied Algebra | 3 3 |
| MATH 410 | Life Contingencies | 3 |

| Math 421 | Mathematical Statistics | 3 |
|------------|---------------------------|-----|
| Math 422 | Complex Analysis | 3 |
| MATH 423 | Real Analysis | 3 |
| Math 424 | Infroduction to Numerical | 3 |
| | Analysis | • • |
| Math 425 | Introduction to Topology | ં ૩ |
| MATH 430 | Probabalistic Modeling | . 3 |
| Math 499 🗋 | Independent Study | 1-3 |
| | | |

CERTIFICATION REQUIREMENTS 46 credits

Students interested in obtaining teacher certification in mathematics must complete the following academic content requirements and the series listed on page 37: MATH 323 Foundations of Geometry 3 MATH 324 Probability 3 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 the courses must be at the 300-level or higher. . 1

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: Elementary Statistics I 3 **MATH 130** and Applied Calculus I 3 MATH 150 · 1 · MATH 160 Calculus Δ and MATH 161 Calculus II Plus nine credits of mathematics electives chosen from the following, or others by advisement.

| ELECTIVES | 12 credi | its |
|------------|--|-----|
| MATH 250 | Applied Calculus II | З |
| MATH 318 | Mathematics of Finance and the Theory of Interest | 3 |
| MATH 332 - | Statistical Computing | 3 |
| MATH 380 | Mathematical Models and Applications | 3 |
| | | |
| | | - |
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| | · · · · | |
| - | | |

103

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 3 Linear Algebra MATH 150 Applied Calculus I 3 MATH 230 Statistics I 3 MATH 332 Statistical Computing 3 MATH 324 Probability 3 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 | 3 |
| | Statistics | |
| Math 421 | Mathematical Statistics | 3 |
| | the following: | |
| Any 100-lev | rel computer science course | 3 |
| BUS 470 | An Introduction to | 3 |
| | Operations Research | |
| ECON 211 | Economic Statistics II | 3 |
| MATH 410 | Life Contingencies | 3 |

Note: These courses cannot be used for both a math major and statistics minor.

Courses

Unless otherwise noted, all courses are for 3 credits.

MATH 101 College Arithmetic

Arithmetic operations with whole numbers, fractions, decimals, percents, introduction to exponents, and applications using consumer word problems.

MATH 105 Preparatory Algebra

Algebra equivalent to high school algebra I. Topics: simple equations, fractional equations, exponents, quadratic equations, and applications using word problems.

MATH 110 Contemporary Mathematics

Provides the mathematical understanding generally expected of an educated adult. Topics: elementary logic and set theory, mathematical systems, and either matrix theory or an introduction to computers (at the discretion of the instructor). MATH 120 Finite Math (for social, behavioral, and life sciences)

An introduction to topics from linear algebra and probability theory with emphasis on applications. Topics: elementary set theory, probability, matrices, systems of linear equations, linear programming, and game theory.

MATH 130 Elementary Statistics I

The development of statistical concepts, with applications to various disciplines. Includes descriptive statistics, probability, the normal distribution, sampling theory, elements of estimation and hypothesis testing, t-test, Chi square and correlation.

MATH 131 Elementary Statistics II

A follow-up to MATH 130. Expands ideas about statistical inference—for example, problems of estimation and testing of hypothesis involving more than two populations, analysis of variance, inferences about standard deviation, contingency tables and goodness of fit, correlation and regression analysis, and non-parametric methods:

MATH 150 Applied Calculus I (for biology, business, economics, psychology, social science)

The essential ideas of the calculus: functions, limits, continuity, differentiation, integration, elementary differential equations. Applications stressed. A knowledge of high school algebra is required; trigonometry is not required. May be followed by MATH 161 or 250 to complete one year of calculus.

MATH 155 Intermediate Algebra for College Students

A continuation of the study of algebra. Serves as a preparatory course for the precalculus student. Topics: the real number system; algebraic operations; factoring; exponents, radicals; inequalities; solutions of linear equations; systems of linear equations. Should not be taken by students who have successfully completed a second year of high school algebra.

MATH 156 Precalculus

Relations and functions: linear, polynomial, rational, exponential, logarithmic, and trigonometric; trigonometric equations, complex numbers and roots of polynomials.

Prerequisite: three years of college preparatory mathematics or equivalent

MATH 160 Calculus I

Functions and operations on functions; limit and continuity of functions, derivatives, differentiation of algebraic functions and applications, differentials, and antiderivatives. Prerequisite: four years of college preparatory mathematics or equivalent. 4 credits

MATH 161 Calculus II

Fundamental theorem of the calculus; integration, applications of the integral; exponential and logarithmic functions and their derivatives; trigonometric and inverse trigonometric functions and their derivatives; techniques of formal integration. Prerequisite: MATH 160 4 credits

MATH 200 Logic and Discrete Mathematics

Logic: the sentential calculus; the predicate calculus (qualified statements); inference and proof.

Set Theory: Axiomatic foundations; partial ordering relations and their graphs; elementary lattice theory; Boolean algebras and applications to switching, theory; infinite sets; theory of cardinal and ordinal numbers.

MATH 201 Calculus III

A continuation of Calculus II. Topics: conic sections, polar coordinates, indeterminate forms, improper integrals, functions of more than one variable, vectors and analytic geometry in three dimensions, partial derivatives, multiple integrals, infinite series. Prerequisite: MATH 161 4 credits

MATH 202 Linear Algebra

Vector spaces, linear transformations, matrices, determinants, systems of equations, inner product spaces. Prerequisite: MATH 161

MATH 230 Statistics for Science Majors

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 231 Applied Statistics

Estimation and hypothesis testing of more than two proportions; of difference of means for independent and dependent samples; linear models; correlation and regression analysis; one-way and two-way analysis of variance; non-parametric statistics; Kolmogorov-Smirnov statistic; contingency tables and goodness of fit; measures of association. Prerequisite: MATH 130

MATH 240 Actuarial Seminar

Designed to prepare students for the first actuarial examination. Problems from past examinations are discussed. Includes an indepth discussion of problems connected with limits.

Prerequisites: MATH 160, 161, 201

MATH 250 Applied Calculus II

Elementary differential equations, differentials, applications of integration to probability and statistics, functions of several variables and optimization. Lagrange multipliers. For students in business, economics, biology, and pyschology. Prerequisite: MATH 150

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 infinum sets. Sequences, Cauchy convergence criterion, uniform convergence and infinite series.

Prerequisites: MATH 200 and 201

MATH 303 Advanced Calculus II

Reimann-Stieltjes integral, fundamental theorem of integral calculus, continuity and differentiation in Rⁿ, implicit function theorem, topology of the real line and selected topics. Prerequisite: MATH 302

MATH 318 Mathematics of Finance and Theory of Interest

The mathematics used in finance. Topics: simple interest, equations of equivalence, annuities and their applications.

MATH 322 Differential Equations

A study of the methods of solution and applications of ordinary differential equations. Topics: first order equations, existence and uniqueness of solutions, separation of variables, exact equations, integrating factors; linear equations, undetermined coefficients, variation of parameters, Laplace, transforms; series solutions. Prerequisite: MATH 161

MATH 323 Foundations of Geometry

Axiomatic and group theory approach to projective, affine and Euclidean geometries; projective geometry from synthetic and analytic view; finite projective geometries and applications to statistics, computer science, etc.; non-Euclidean geometries; matrix methods applied to geometry.

MATH 324 Probability

Probability axioms, combinatorial analysis, discrete and continuous sample spaces, random variables, mathematical expectation, probability functions, densities, distribution functions, special distributions, and limit theorems. Prerequisite: MATH 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 332 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 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 230, 318, 324

MATH 421 Mathematical Statistics

Distribution theory, random sampling, point and interval estimation, maximum likelihood estimation, hypothesis testing, nonparametric tests and Bayesian methods. Prerequisite: MATH 324

MATH 422 Complex Analysis

Elements of complex analysis. Topics: complex numbers, analytic functions, Cauchy integral theorum, Cauchy integral formula, power series and conformal mapping.

MATH 423 Real Analysis

Riemann integration, measurable sets, measurable functions, Lebesque integration, metric spaces, completeness and . selected topics. Prerequisite: MATH 302

MATH 424 Introduction to Numerical Analysis

Treatment of computational techniques of numerical integration, numerical solutions of linear equations, polynomial approximation, iterative solution of non-linear equations and other basic processes of numerical analysis. Prerequisite: MATH 322

MATH 425 Introduction to Topology

Topological spaces and their properties; Homeomorphisms and invariant properties; separation and countability axioms; network theory and applications. Prerequisite: MATH 302

MATH 430 Probabilistic Modeling

Sample spaces; probability measure; combinatorial principles; independence; conditional probability and Bayes theorem; simple probability models like binomial, poisson, geometric, inverse binomial, normal, etc; mathematical expectation; random walk; queing theory; Markov chain; birth and death processes; matching problem.

Prerequisite: MATH 161

MATH 499 Independent Study

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

The School of Social Science

Mildred Weil, Dean Office: Science Complex 351

The School of Social Science offers undergraduate degree programs in sociology/anthropology, geography, political science and psychology for students in-terested in professional careers in these disciplines, including teaching. The bachelor-of-arts-degree-granting programs of the school also prepare students for graduate study in the social sciences. Honors programs in policy analysis and biopsychology are available to highly motivated students who seek additional academic challenges.

Both students and faculty have the opportunity to pursue individual interests through special seminars, colloquiums, conferences and lectures, and by contributing to intracollegiate publications issued under the auspices of the school and the College.

Liberal Studies Major

Students' interested in several disciplines offered by the School of Social Science, but who do not wish to major in any one of them, may pursue a liberal studies major in the school. Under this program, with the assistance of an academic advisor, students select a total of 48 credits from at least three of the school's majors, taking no more than 18 credits in any one of them. Students who successfully complete this major earn a bachelor's degree in liberal studies: School of Social Science.

Honors Program in Biopsychology

The honors program in biopsychology draws on discoveries in such fields as behavior, genetics, neuroanatomy, brain chemistry, neurophysiology, psychopharmacology and many others to unravel the blology 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' chosén 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 vear 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 | | | | |
|----------------------------------|----------------------|--|----------|--|
| Psych PSY | ology 110 | General Psychology | 3 | |
| Biolog BIO | | General Biology I and JI | 8 | |
| or BIO | 212-213 | General Anatomy and Physiology I and II | . 8 | |
| | | Gèneral Chemistry I and II | 8 | |
| | 308-309 | Organic Chemistry I and II | ·8 | |
| or CHEN | 1164-165 | College Chemistry and Organic Biochemistry | , 8 | |
| | se one of | the following two-semes | , ter | |
| PHYS | əs by adv 255-256 | College Physics I and II | 8 | |
| or PHYS | 26Ö-261 | General Physics I and II | 8 | |
| Comp CS | | nce Introduction to Com- puters/BASIC | · 3 | |
| Statist PSY | | Experimental Psy- chology I and II | 8 | |
| or MATH | 230 | Statistics for Science Majors | · 3 | |
| CORE | COURSES | 14 credi | its · | |

| COR | E COURSES | 14 Çî | edits |
|--------|---------------------------------------|---------------------|-------|
| BIPY . | 474 | Neuroscience | 4 |
| BIPY | 475 | Behavior Genetics | 4 |
| | | Topical Elective in | 3 |
| | • • | Biopsychology | |
| | | (one or more) | |
| PSY | 353 | Physiological Psy- | |
| | | chology | · 3 |
| | * | | |
| | · · · · · · · · · · · · · · · · · · · | | |

MAJOR ELECTIVES 10-12 credits

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

| SOC | 130 | Introduction to An- | 3 |
|------------|-----|---|---|
| PHIL | 110 | thropology Introduction to Philosophy | 3 |
| or PHIL | 140 | Introduction to Inquiry | 3 |

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

Courses

Unless otherwise noted, all courses are for 3 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: BIQ 163-164 or 212-213 or PSY 353 or permission of the instructor. 4 credits/lecture and laboratory

BIPY 475 Behavior Genetics

An introduction to the concept of geneenvironment interaction as a determiner of both animal and human behavior. Exposure to various methods of experimental and correlational types of investigation. Prerequisites: BIO 163-164 or 212-213 or permission of the instructor.

4 credits/lecture and laboratory

BIPY 476 Developmental Biopsychology

Designed to introduce students to the scope and methods of a psychobiological approach to development. Stresses the phylogenetic and ontogenetic processes influencing individuals, groups, species and phyla, with special emphasis on human groups.

Prerequisites: PSY 353 or BIO 163-164 or BIO 212-213 or permission of the Instructor.

BIPY 479 Biorhythms in Physiology and **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 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.
Honors Program in Policy Analysis

The honors program in policy analysis is an interdisciplinary program designed to provide students with applied training in the social sciences. The field involves the application of available knowledge in the various areas of the social sciences-psychology, sociology, political science, economics, anthropology and geography-to the formation, implementation and evaluation of policy at the federal, state and local levels. Government expansion in areas such as social services for children and the aged and in environmental protection has resulted in an ever expanding need for people trained in the social sciences as well as in policy analysis. It is expected that students enrolled in the policy analysis honors program will acquire a competitive edge in the job market after graduation and in the pursuit of a graduate degree.

The program is open to all majors in psychology, sociology, anthropology, geography, political science and economics, but is designed particularly for highly motivated students who wish to explore more specific areas and topics in depth. The program provides breadth and depth to the major the student has chosen. Students in the program take four courses specifically designed for the policy analysis honors program and also participate in an on-the-job internship. Supporting courses in social science areas other than the major complete the program. Students are advised to apply as early in their college careers as possible.

| FOUND | ATIO | N COURSES | 12 credits |
|--------|-------|---------------------|------------|
| PAHP | 200 | Basic Issues and | . 3 |
| | | Cases in Policy Ana | lysis |
| PAHP | 300 | Policy Formulation | 3 |
| | | and Implementation | n |
| PAHP | 350 | Policy Evaluation | 3 |
| PAHP | 400 | Summer and | 3 |
| , | | Internship | |
| DIRECT | ed el | ECTIVES | 15 credits |
| FOON | 000 | Miercennenie Drine | states 0 |

| ECON | 202 N | licroecnomic Principles | - 3 |
|------|-------|-------------------------|-----|
| GEO | 130 H | uman Ecology | 3 |
| POL | 120 A | merican Government | 3 |
| | a | nd Politics | |
| PSY | | eneral Psychology | 3 |
| SOC | 110 P | rinciples of Sociology | 3 |
| | | | |

Courses

Unless otherwise noted, all courses are for 3 credits.

PAHP 200 Basic Issues and Cases in Policy Analysis

The basic introductory course to the policy analysis honors program. An analysis of some of the major case studies and the questions and issues involved in formulating, implementing and evaluating policy on the international, federal, state and local levels. Also examines the philosophy and environment of policy analysis.

PAHP 300 Policy Formulation and Implementation

Focuses on policy formulation and policy implementation at the national and local levels.

PAHP 350 Policy Evaluation

Techniques for analyzing and evaluating the appropriateness, impact and efficiency of social and governmental interventions into society's problems.

PAHP 400 Seminar and Internship in Policy Analysis

Department of Political Science

Professors—S. Kyriakides, L. Rosenberg, M. Weinstein

Associate Professors—M. Chadda, G. Gregoriou, L. Wolf

Assistant Professors—S. Shalom (chairman), C. Sheffield

The political science curriculum is designed to give students an understanding of 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.

After taking 15 credits of required major courses, students elect other courses to meet particular personal and career interests such as comparative politics, political theory, international relations, women's studies, American institutions and political behavior.

A field-study or internship program in politics affords interested students, the opportunity to apply and enhance their training. Upon satisfactory completion of basic courses, students are placed in governmental agencies (e.g., legislative offices, political parties and interest groups, criminal court systems, etc.). Prior application is necessary, and academic credit is granted upon the successful completion of the internship.

| MAJO | or Req | UIREMENTS 30 cr | edits |
|------------|------------|---|----------------|
| 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 POL | 240 480 | International Relations Seminar in Political Science (open to juniors and seniors; different seminars are offered each semester) | 3 |

Plus 15 credits of additional political science electives.†

*Another political theory course may be substituted with the permission of the department. tAll political science majors are urged to take POL 261: Research Methods in Political Science.

Note: Majors in political science are encouraged to select courses in such related areas as economics and business, sociology/anthropology/geography, philosophy, history, African and Afro-American studies, and psychology.

MINOR REQUIREMENTS 18 credits

POL110Introduction to Politics3POL120American Government3and Politics

Plus 12 credits of additional political science electives by advisement.

CERTIFICATION REQUIREMENTS 61 credits

Students interested in obtaining teacher certification in social studies must complete the requirements listed on page 114 of this catalog.

Courses

Unless otherwise noted, all courses are for 3 credits.

POL110 Introduction to Politics

An inquiry into the nature, methodology, and subject matter of politics. Basic ideas and problems in the field of politics—valuefree inquiry, freedom, authority, justice, equality, alienation, revolution and change, rights and obligation—are examined in their philosophical and practical socio-economic setting. Attention is also given to recent and contemporary. crises.

POL 120 American Government and 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 dynamics of government in the fifty states and their relationship to national and local governments with special emphasis on New Jersey. Attention is given to the executive, legislative, and judicial organizations and to the performance of governmental functions within a political framework.

POL 222 Politics of the Environment

An examination of the responsibilities and powers of the legislative and executive branches of government regarding environmental problems, their solutions and enforcement. Emphasis on ways in which supportive and non-supportive public opinion and interest groups influence government and environmental policy.

POL 224 Political Parties

A study of the organization and operation of political parties in the United States. Formal structure, the role of ideology, voting behavior and the influence of pressure groups on political parties are examined.

POL 230 Comparative Politics: Development and Modernization

An introduction to the field of comparative politics. Emphasizes a critical analysis of the principal approaches and models currently employed by political science in an attempt to understand the process of political change and the variegated political systems of the world.

POL 232 Politics of the Third World

A comparative analysis of selected transitional political systems in Latin America, Africa and Asia. General problems arising during the transition from traditional societies to modern industrial states are examined to describe typical patterns of political change.

POL 240 International Relations

A study of the nation-state system, the struggle for power, the changing patterns of the international system and the basic influences shaping the foreign policy of states.

POL 241 War and Peace

The origins of war and the quest for peace. The economic and psychological drives behind wars, weapons, systems and international "security" through armaments are analyzed

POL 254 Urban and Suburban Politics

A theoretical and empirical analysis of the distribution of political power in both central cities and suburban areas.

POL 261 Research Methods in Political Science

Designed to enable students to formulate and operationalize hypotheses and to bring data to bear in analyzing these hypotheses. Techniques covered include survey research, analysis of existing sources of data, content analysis and simulations.

POL 262 Data Analysis for Political Science

Covers some elementary statistical methods appropriate for the kinds of data collected by political scientists, and provides an introduction to the computer analysis of such data.

POL 300 Politics and Labor Movements

Explores a variety of philosophical, ideological and historical-institutional arrangements related to labor, with emphasis on the twentieth century.

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.

POL310 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, federalstate 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 Polifical Systems

A systematic and comparative study of the political systems of Western Europe and the Soviet Union.

POL 334 Communist Political Systems

A comparative analysis of Communist political systems in theory and practice.

POL 335 Politics of the Soviet Union

Soviet political systems with an analysis of the Russian and Marxist-Leninist traditions leading to the creation of the Soviet partystate, the role of the Communist party as an instrument of power, the politics of succession, the police, the economy and the social and cultural life.

POL 337 Politics of Latin America

An examination of the nature of Ibero-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 341 International Organizations and Multinational Corporations

Analyzes the political implications—both in the host and home countries—of transnational corporations. Examines the impact on development, labor policies and income distribution.

POL 342 International Political Economy

Analyses of global issues—such as the quest for new international order, world trade dilemmas, economic relations between rich and poor states and their political implications—from a political economical perspective.

Prerequisite: POL 240

POL 345 United States Foreign Policy

An analysis of the theoretical foundations of foreign policy and the formulation of United States foreign policy. Includes the problems of decision-making, major issues and problems of United States foreign policy in the contemporary world.

POL 354 Urban Policies and Problems

An intensive consideration of the formation and implementation of selected urban policies and programs. Field work on a specific topic is encouraged.

POL 356 Women in Comparative Politics

Investigates and compares women's concerns on an international basis. Prerequisite: POL 210 or HSA 300

POL402 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

POL403 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. Nemoff, D. Sugarman, F. Tomedy, D. Vardiman, R. White Associate Professors—J. Green, D. Grey, T.

Haver, R. Krate, G. Leventhal, A. Montare, B. Silverstein (chairman), D. Skillin **Assistant Professors—**W. Apple, S. Boone, T.

Dresner, B. Pakizegi, P. Ross, P. Selkow

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 studenta broad background in the field but allows him to specialize in one or more particular areas of interest.

Courses prepare students to understand and use the tools of psychology, including experimental research methods. Students gain experience both in reading and critically evaluating the work of others and in pursuing their own projects. Students are encouraged to participate in facultydirected research in such widely divergent areas as perception, aggression, infancy, sex roles and biofeedback.

These experiences, as well as the opportunity to participate in independent study, field placements and seminars, provide a well-rounded program for students who wish to pursue graduate study in psychology or in related areas.

| MAJOR REQUIREMENTS 38-40 credits A. Required Core | | | |
|--|---------|---|-----|
| PSY | 110 | General Psychology | 3 |
| PSY | 202-203 | Experimental | 8 |
| PSY | 230 | Psychology and History and Systems of Psychology | . 3 |
| PSY | 480 | Seminar | 3 |

B. Track Courses

One course is selected from each of five tracks listed below. The purpose of the track course distribution is to provide breadth in the curriculum.

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

| ECTIVES 13 | credits |
|----------------------|--|
| Applied Anatomy and | 4 |
| | |
| Computer Statistical | 3 |
| Techniques I | |
| The Modern World | 3. |
| Introduction to | 3 |
| Philosophy | • |
| | Applied Anatomy and Physiology Computer Statistical Techniques I The Modern World Introduction to |

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

A. Developmental

| л . L | everopin | eniai | |
|--------------|-------------------|-------------------------------------|-------------|
| PSY | 210* | Developmental Psy- chology | 3 |
| PSY | 320 | Psychology of | 3 |
| | | Adolescence | |
| PSY | 330 | Psychology of Aging | 3 |
| PSY | 340 | Infancy | 3 3 3 |
| PSY | 352 | Psycholinguistics | 3 |
| B. Ir | nformatio | n Processing | |
| PSY | 250 | -Psychology of Con- | 3 |
| | | sciousness | • |
| P\$Y | 352 | Psycholinguistics | 3 |
| | 354 | Psychology of Learning | 3 3 3 |
| PSY | 375 | Human Information | 3 |
| | | Processing | |
| PSY | 420 | Perception | 3 3 |
| PSY | 450 | Cybernetic Psychology | 3 |
| с. s | Social | | |
| PSY | 120 ^{î.} | Psychology of Social Is- | 3 |
| | * | sues · | |
| PSY | 130 | Psychology in Business | 3 |
| | | and Industry | |
| | 220 | Social Psychology | 3 |
| PSY | | Psychology of Women | 3 3 3 |
| PSY | 360 | Environmental Psy- | 3 |
| | | chology . | |
| PSY | 380 | Field Methods in | 3 |
| | | Psychology | |
| *Dror | | Locurros in the developmental track | |

*Prerequisite to all courses in the developmental track.

| D. | Physiological | |
|----|---------------|--|
| | | |

| D. Thyolologi | | |
|---------------|--------------------------|---|
| BIPY 474 | Introduction to | 4 |
| , | Neuroscience | |
| BIPY 475 | Behavior Genetics | 4 |
| BIPY 476 | Developmental | 3 |
| • | Biopsychology | |
| BIPY 479 | Biorhythms in Physiology | 3 |
| , | and Behavior | |
| BIPY 499 | Current Topics in | 3 |
| | Biopsychology | |
| PSY 353* | Physiological Psy- | |
| • | chology | 3 |
| PSY 415 | Psychopharmacology | 3 |
| PSY 460 | Comparative Psy- | |
| • • | chology | 3 |
| | | |

E. Clinical/Personality

| PSY 310 | Psychological Testing | 3 |
|---------|--------------------------|---|
| PSY_322 | Group Dynamics (p/f | 3 |
| | grades only) | |
| PSY 350 | Theories of Personality | 3 |
| PSY 351 | Abnormal Psychology | 3 |
| PSY 410 | Introduction to Counsel- | |
| • | ing and Psychotherapy | 3 |
| | | |

| MIN | OR REQU | REMENTS | 18 credits |
|------|----------|----------------------|------------|
| PSY | 110 | General Psycholog | у З |
| PSY | 210 | Developmental Psy | - 3 |
| | | chology | • |
| PSY | 220 | Social Psychology | 3 |
| PSY | 230 | History and System | sof 3 |
| | | Psychology | |
| Plus | two addi | tional psychology of | ourses by |
| adv | isement | | 6 |

advisement *Prerequisite to all courses in the physiological track.

Courses

Unless otherwise noted, all courses are for 3 credits.

.

PSY 110 General Psychology

An intensive investigation of the chief facts, principles and problems of human behavior with special emphasis on current research and theory. The biological foundations of behavior, sensory processes, learning perception, thinking, emotion, motivation, personality and behavior pathology are examined to establish the foundations for advanced study in psychology.

PSY 120 Psychology of Social Issues

Basic concepts, theories and research findings from the field of psychology applied to an analysis of major social problems confronting American society.

PSY 130 Psychology in Business and Industry

Applications of psychology (experimental, social, clinical, and industrial) in the areas of business and industry including human performance, organizational behavior, marketing and advertising.

PSY 202 Experimental Psychology I: Applied Statistics

An introduction to contemporary statistical procedures and computational aids appropriate to researchers in the behavioral sciences. Emphasis on "generalized" factorial research design and data analysis procedures. Laboratory sessions provide experience in the application of lecture material.

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.

PSY 210 Developmental Psychology

The development of the individual through the life span, with special attention to early childhood. Theories of Erikson and Plaget, and their practical applications, are considered.

PSY 220 Social Psychology

Issues related to social behavior and influence, including interpersonal relationships and group processes are explored and analyzed.

PSY 230 History and Systems of Psychology

The foundations of modern psychology, starting with Descartes. Historical and philosophical understanding of the growth of psychology as a discipline and the emergence of contemporary viewpoints are surveyed.

PSY 250 Psychology of Consciousness

Examines the different forms of consciousness, the synthesis of these different streams of knowledge, and their relationship to individual, unconnected states of awareness. Covers intellectual and intuitive modes.

PSY 310 Psychological Testing

The nature and functions of psychological testing, the interpretation of tests through scores, and clinical and research hypotheses. Covers intelligence, aptitude, personality tests; particular emphasis on clinical interpretation.

PSY 311 Psychology of Women

Various psychological theories of women— Freud and the Freudians, Karen Horney, the behaviorists and the feminists—are surveyed, and various psychological research findings are evaluated.

PSY 312 Mental Hygiene

The problems of mental health in our country and in our schools; the importance of mental health in developing wholesome personality; mental health hazards; the role of the family, community, and school in the development of personality patterns.

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.

PSY 351 Abnormal Psychology

Issues of abnormal personality and behavior, in terms of the adaptation of the individual to his social environment. Includes consideration of the dynamics of personality development and adjustment.

PSY 352 Psycholinguistics

An academic study of the major theories of speech and language acquisition, combined with direct observation of such behavior in 2-5 year olds. Approximately one half of the time is devoted to field study. Prerequisite: PSY 210

PSY 353 Physiological Psychology

The relationship between physical events taking place in the body and behavior. A portion of the course focuses on the relationship between the brain and behavior, although the role of other organs is also included.

PSY 354 Psychology of Learning

An examination of the research methods, empirical findings and theoretical interpretations of conditioning and learning phenomena, including historical and current trends in research and theory in this area.

PSY 360 Environmental Psychology

Focuses on man's psychological states and social behavior in relation to his physical environment, both natural and manmade. Includes spatial features of social interaction, the behavioral properties of places, and locational behavior of individuals and groups.

PSY 375 Human Information Processing

A critical examination of man's information processing capabilities and limitations. Emphasis on the theoretical principles that underlie the attention, perception and memory of events, as well as current research problems.

Prerequisite: PSY 203 recommended

THE SCHOOL OF SOCIAL SCIENCE

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 410 Introduction to Counseling and Psychotherapy

Emphasizes the various characteristics defining the helping relationship as expressed in the counseling process with adolescent and adult clients in secondary schools, college settings and mental hygiene facilities. Prerequisite: PSY 350 or 351

PSY 415 Psychopharmacology

A presentation of certain fundamental principles of pharmacology and neurophysiology. Outlines relevant aspects of neuroanatomy and the biochemistry of the brain. Focuses on the biochemical, electrophysiological and psychological effects of anesthetics, barbiturates, psychotherapeutic drugs and hallucinogens on the brain.

PSY 420 Perception

Examines the processes by which organisms form concepts of the environment through the senses. Includes a study of the physical stimuli, the nature of the sensory organs and the neutral networks, and the effects of learning upon perception in humans

Prerequisite: PSY 353

PSY 450 Cybernetic Psychology

The basic concepts of cybernetics-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

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-F. Alliston (geography coordinator), P. Chao, V. Parrillo (chairman), M. Weil

Associate Professors-R. Davis, J. Fitzsimmons, E. Kedar, S.M. Rhim, P. Stein, J. Stimson

Assistant Professors-R. Glassman, C. Magarelli, R. Martorella, F. Pearson, J. Pollak Instructor-K. De Bres

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 REQU | IREMENTS | 33 credits |
|---------------|--|------------|
| SOC 110 | Principles of Socio | |
| SOC 130 | Introduction to Ar thropology | - 3· |
| SOC 254 | Sociological Rese Methods | arch 3 |
| SOC 303 | History of Social Th | neory 3 |
| or SOC 402 | | eorv 3 |
| | Modern Social The s selected from the | |
| by adviseme | | |
| SOC 120 | Marriage and the Family | . 3 |
| SOC 200 | Human Races | . 3 |
| SOC 205 | Crime and Custor | min 👘 |
| | Tribal Society | 3 3 |
| SOC 210 | Archaeology | . 3 |
| SOC 250 | Urban Sociology | 3 |
| SOC 251 | Minority Groups in America | · 3 |
| SOC 253 | Elementary Soci- ological Statistics | 3 |

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| SOC 254 | Sociological Research Methods | 3 |
| SOC 255 | Qualitative Sociológical | 3 |
| SOC 054 | Methods . | <u>^</u> |
| SOC 256 | Political Sociology | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| SOC 265 SOC 300 | Human Sexuality | 3 |
| SOC 300 | Social Welfare Policy | 3 |
| SOC 302 SOC 303 | Biological Anthropology | · 3 |
| SOC 303 | History of Social Theory | 3 |
| SOC 310 | Sociology of War | ž |
| SOC 310 SOC 320 | | 5 |
| SOC 320 | Sociology of Labor | 3 |
| SOC 321 | Labor Studies, in Field- | 3 |
| • | work Problems | |
| SOC 322 | Sociology of Organiza- | 3 |
| | tions | Ũ |
| 500 333 | Labor Organization and | 3 |
| SOC 323 | | 3 |
| | Organizing | |
| SOC 324 SOC 325 | Sociology of Religion | 3 |
| SOC 325 | Sociology of Social | 3 |
| • | Movements | |
| SOC 326 | American Religion | 3 |
| 300 320 | e | 3 |
| SOC 327 | Collective Behavior | 3 |
| SOC 327 SOC 328 | Sociology of the Arts | 3 |
| SOC 329 | Introduction to Educa- | 3 3 3 3 |
| | tional Anthropology | · |
| SCC 220 | | 2 |
| SOC 330 | Sociology of Death and | 3 |
| | Grief | |
| SOC 331 | Evaluation of Social Ac- | 3 |
| | tion | |
| SOC 333 | Sociology of Adulthood | 3 |
| SOC 335 | | 3 3 3 |
| | Sociology of Law | 3 |
| SOC 341 | Latin American | 3 |
| | Ethnology | |
| SOC 342 | East Asian Ethnology | 3 |
| SOC 353 | Human Types: A Com- | 3 3 |
| 000000 | parative Study of Cul- | U |
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| | tures | |
| SOC 354 | Social Stratification | 3 |
| SOC 359 | Cultural Change in | 3 |
| | Latin America | |
| SOC 360 | Self and Society | 3 |
| | Psychological An- | 3 |
| SOC 361 | | 3 |
| | thropology | |
| SOC 362 | Family in Socialist Socie- | 3 |
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| SOC 363 | Women and Religion: | 3 |
| | East and West | - |
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| SOC 365 | Social Deviance | 3 3 |
| SOC 370 SOC 390 | Population and Society | |
| SOC 390 | Medical Sociology | . 3 |
| SOC 392 | Sociology of Aging | 3 |
| SOC 392 SOC 395 | Anthropology of Aging | 3 |
| 000070 | | 2 |
| SOC 402 | Modern Social Theory | . 3 3 3 3 3 3 |
| SOC 406 | Social and Environmen- | 3 |
| | tal Change | |
| SOC 407 | Theories of Race and | 3 |
| | Ethnic Relations | |
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| SOC 408 | Indians of North Ameri- | S |
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| SOC 409 | Social Problems and So- | 3 |
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| SOC 420 | . Internship in Labor Stud- | ·3 |
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| SOC 421 | The Sociology of Revolu- | ્રુ |
| | tion | |
| SOC 450 | Shamans, Witches and | · 3 |
| | Magic | |
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| SOC 455 | Crime and Delinauency | 3 |
| SOC 455 | Crime and Delinquency | 3 1-3 |
| SOC 455 SOC 499 | Crime and Delinquency Independent Study | 3 1-3 |

| MINOR REQUIREMENTS | | 18 credits | |
|--|----------------------------------|------------|--|
| SOC 110 | Principles of Socio | logy 3 | |
| SOC 130 | Introduction to An thropology | - 3 | |
| SOC 303 : or | History of Social Th | eory 3 | |
| SOC 402 | | | |
| 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 120 Marriage and the Family

A sociological approach to the study of marriage and family living. The student is required to develop a critical evaluation of studies and research in the field.

SOC 130 Introduction to Anthropology

Designed to study humanity from the broadest perspective in the social sciences. Through an introduction to basic concepts in cultural/social anthropology, archaeology, physical anthropology and linguistics, students gain an appreciation of human evolutionary history, modern cultural diversity and the elements of social life all humans share.

SOC 200 Human Races

Describes races of humans in the world at large and examines physical differences found in human species. These differences are related to some extent to the physiological demands of various climates. Prerequisites: SOC 110. and 130

SOC 205 Crime and Custom in Tribal Society

A study of the traditions, customs and jurisprudence in pre-literate society which brought about social cohesion and order.

SOC 210 Archaeology

Introduces students to the scientific study of extinct societies. Research design, site survey and excavation, data recording and interpretation, artifact identification and treatment, and cultural resource management are among the topics covered. Prerequisite: SOC 130 or permission of the instructor

SOC 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 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 300 Social Welfare Policy

An introduction, with a theoretical focus, to the issues and knowledge upon which social welfare and social work curricula are built.

SOC 302 Biological Anthropology.

An introduction to the biological perspective in anthropology including primate evolution, the living, non-human primates, the evolution of primate behavior, the human fossil record, and modern human variation and adaptability. The biocultural nature of humans is emphasized. Prerequisite: SOC 130, or permission of the instructor

SOC 303 History of Social Theory

Focuses on the works of the great classical sociologists. The theories of Comte, Spencer, Durkeim, Marx, Weber, Simmel, Pareto, George Herbert Mead, and others are analyzed in light of contemporary social conditions and in terms of the development of sociological theory.

SOC 310 Sociology of War

Examines the theories surrounding the causes, nature and effects of modern warfare and its influence on shaping social structure and personality.

SOC 320 Sociology of Labor

Examines three levels of labor activity: working class roles, labor disputes and collective action. The study of national labor movements from the founding of the IWW to the present rank and file movements of today.

SOC 321 Labor Studies in Fieldwork Problems

Designed to introduce students to current problems in labor research, labor organizing and labor law. Local resources and personnel form the backdrop for much of the study in research. Stresses current organizing and legal battles affecting the labor movement.

SOC 322 Sociology of Organizations

A theoretical course tracing development of organizational theory to the present; a practical course, considering the increasing impact of bureaucratic organizations on our lives.

SOC 323 Labor Organization 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.

THE SCHOOL OF SOCIAL SCIENCE

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 Biessing 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 Introduction to Educational Anthropology

An analysis of the processes of cultural transmission viewed from a cross-cultural perspective. An examination of anthropological research and field techniques as applied to the study of both formal and informal education. A major focus is 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 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 Latin American Ethnology

An in-depth study of indigenous cultures of Latin America and their ecological adaptation in the pre-Columbian era, as well as effects of European domination and the current status of Latin American peoples in the world community.

SOC 342 East Asian Ethnology

Designed to enable students to understand the origin of Chinese and Japanese cultures and national characteristics. China's military, political and economic boom which has exerted an unprecedented influence on world trade and markets.

SOC 353 Human Types—A Comparative Study of Cultures

Designed to study persons as biological as well as social animals. Physical characteristics of races and the culture and development of primitive and modern persons are stressed.

SOC 354 Social Stratification

Treats both theory and realities with an emphasis on American society. Course concludes with an examination of power in the United States.

SOC 359 Cultural Change in Latin America

The origin and development of processes of culture change in Latin America. Gives the student an opportunity to learn about the cultural institutions of highly developed indigenous cultures and their influences upon present-day Latin American cultures. Examines current writings on Latin America which deal with social change, and helps the student develop scientific objectivity (an anthropological prerequisite) in his analysis of the social problems resulting from change. Particularly useful for international management majors.

SOC 360 Self and Society

A study of the impact of society on the formation of each individual's personality through analysis of language, definitions and values.

SOC 361 Psychological Anthropology

The interaction of culture and personality in various parts of the world. Explores specific topics which have cultural impact on the development of personality.

SOC 362 Family in Socialist Societies

An examination and comparison of the family systems of the west and of the socialist societies of Russia and China.

SOC 363 Women and Religion: East and West

Attempts to meet a growing need for a more exact idea of the role of world religions in shaping the traditional cultural images that have degraded and suppressed women. Specifically, compares women of the four major faiths of the East— Hinduism, Buddhism, Confucianism and Islam—with those of Judeo-Christian faiths of the West.

Prerequisites: SOC 110 and 324

SOC 365 Social Deviance

Examines the concept of "deviance" in society through a study of the issues of value judgments, abnormality and eccentricity. Implications are found for the causes of the behavior of groups socially labeled . as deviant.

SOC 370 Population and Society

Addresses four problems: 1) dangers of world population growth for individual survival; 2) the interaction between change, social structure and population; 3) socialpsychological attitudes in fertility decisions; 4) the uses of the census to describe social problems.

SOC 390 Medical Sociology

Analyzes social factors in relation to health and disease. Considers definitions of health, illness behavior, the formal and informal organization of health professions and institutions, and the expanding role of government in the health field. Uses both theory and current research.

SOC 392 Sociology of Aging

The demography of aging, age and its social structure; age as a social problem. Population trends are examined as they relate to health problems of the elderly. Focus on the changing role of the elderly in the kinship network.

SOC 395 Anthropology of Aging

Introduces the student to the meaning of aging as a part of the total maturational cycle.

SOC 400 Sociology of Knowledge

Analyzes the relationship between knowledge and society by focusing on the advantages and disadvantages of the classic formulations of sociology and the sharp distinction between the two concepts.

SOC 402 Modern Social 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.

Prerequisite: SOC 110 or permission of the instructor

SOC 407 Theories of Race and Ethnic Relations

Focuses on race and ethnic relations conceived as theoretical problems in sociology. Includes analyses of theories underlying race and ethnicity in modern industrial societies, specifically the United States, from the evolutionist and functionalist perspectives.

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 409 Social Problems and Social Policy

Selected social problems are examined in order to understand their origin, structure and influence on society. The functions of social policy, social planning and program development are analyzed. Students initiate, execute and evaluate "action-oriented" fieldwork projects.

SOC 420 Internship in Labor Studies

Designed primarily for students interested in practical aspects of labor organization relations, who may be considering labor service. Students work 8-40 hours a week under the guidance of experienced labor officials. Field placements are made to enable students to participate in labor. functions. Periodic conferences and a monthly seminar serve to round out the program.

3-15 credits

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. Prerequisite: SOC 110

SOC 450 Shamans, Witches and Magic

Provides the student with insights into the meaning of witchcraft and sorcery as manifestations of the belief in the supernatural. It gives the student an opportunity to learn about the functions of witchcraft and sorcery in specific societies and the cultural roles of the shaman, witch and sorcerer.

SOC 455 Crime and Delinquency

Analyzes various aspects of crime and delinguency as forms of social deviation and the etiology of crime in a contemporary context.

SOC 499 Independent Study

As approved and to be arranged. 1-3 credits

Geography

The geography major offers a program, leading to the degree of bachelor of arts, designed to acquaint students with "Spaceship Earth." Majors who wish to teach in secondary schools should pursue courses necessary for meeting certification requirements in social studies. Students who wish to study certain specific areas of geography, and/or attend graduate school, are urged strongly by their advisors to take the appropriate minor program or programs. All majors are assigned an advísor.

| | | UIREMENTS 30 cred | its |
|---------|------------|--|--------|
| | 20× 30 | Man's Physical World Human Ecology | 3 3 |
| | | the following: | 3 |
| GEO · 2 | | Population and Settle- | 3 |
| | | ment | |
| GEO 2 | 233 | Geography of World Eco- nomic Activity | 3 |
| GEO 3 | 300 - | Geopolitics | 3 |
| | 310 | Trade and Transportation | 3 3 |
| 050 | | Geography | |
| GEO 3 | 350 | Geo-Economics of Energy and Man | 3 |
| GEO 3 | 860 | Geo-Economics of Food | 3 |
| • | • • | and Hunger | |
| | 100 101 | Urban Geography | 3 3 |
| GEO 4 | IU'I | Cartography | 3 |
| | | ne following: | |
| GEO 2 | 204 . | N.J. Wildlife at the Cross- roads | 3 |
| GEO 2 | 230 | Population and Settle- | 3 |
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| | . 00, | Geopolitics | 3 |
| GEÓ 3 | 310 | Trade and Transportation | 3 |
| GEO 3 | 30 | Geography The Geography of the | 3 |
| GEO J | 50 | Metropolitan Area | 3 |
| GEO 3 | 331 | Asia's Geography and | 3 |
| | | Problems | |
| GEO 3 | 332 | Middle East's Geography | 3 |
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| GEO 3 | 334 | Africa's Geography and | 3 |
| GEO 3 | 35 | Problems Latin America's Geogra- | 2 |
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| GEO 3 | 36 | Soviet Union's Geography | 3 |
| | | and Problems | _ |
| GEO 3 | 37 | Australia and Oceania's | 3 |
| | | Geography and Prob- lems | |
| GEO 3 | 38 | U.S.'s and Canada's Ge- | 3 |
| | | ography and Problems | |
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| GEO | 339 | New Jersey's Geography 3 |
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| GEO | 350 | and Problems Geo-Economics of Energy 3 |
| GEO | 360 | and Man Geo-Economics of Food 3 |
| GEO GEO GEO GEO | 365 - 370 400 404 | and Hunger Man, Nature and Wildlife 3 Global Ecology 3 Urban Geography 3 Polar and Arctic Geogra-3 |
| GEO | 405 | phy The Geography of 3 Oceans |
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| GEO | 416 | of the U.S. Military Geography of the 3 Twentieth Century |
| geo Geo | | Senior Seminar 3 Independent Study 1-3 |
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| Stude certifi | ents in catior | ON REQUIREMENTS 61 credits terested in obtaining teacher in social studies must com- llowing: |

| Acad | lemic | Content Requirements | |
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| | | 21 cred | |
| | of the | following courses: | |
| AAAS | | Afro-American History to | 3 |
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| AAAS | 300 | The Black Family | . 3 |
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| Pluso | one of | the following courses: | |
| ECO | N 201 | Macroeconomic Prin- | |
| | | ciples | 3 |
| ECOI | N 202 | Microeconomic Prin- | |
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| ECOI | N 230 | Economics of the Environ- ment | 3 |
| Plus (| one co | ourse in each of the followi | ng |
| areas | | | |
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| | | nerican history courses es listed above may be taker | • |
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| | | 40 crec | dits |
| PSY | .110 | General Psychology | · · 3 |
| HSC | 120 | Current Health Issues | .3 |
| TED | 310 | Educational Psychology | 3 |
| HSA | 301 | Discussing Your Teaching Self | 1 |
| SED | 340 | Exploring the Teaching Field | 3 |
| RLA | 329 | Foundations of Reading | 3 |
| RLA | 330 | Reading Strategies | 3 3 |
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| SED | 383 | Teaching Reading | 3 |
| SED | 301 | Grades 5-12 Curriculum and Its Im | 3 |
| SED | 301 | Curriculum and Its Im- plementation | 3 |
| SED | 331 | Implementing Your | 3 |
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| EDUC | 2 403 | Culminating Field Ex- | 8 |
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| | | perience | |
| SED | 404 | Instructional Seminar for | 1 |

Student Teaching Plus two education electives 6 **Note:** In planning certification requirements, students should seek advisement from the School of Education and Community Service.

Courses

Unless otherwise noted, all courses are for 3 credits.

GEO 110 Cultural Geography

An application of the concept of earth as the home of man. Special emphasis on the geographical analysis of human environment as the result of the intricate variety of cultural-world/physical-world interactions.

GEO 120 Man's Physical World

Designed to elucidate the patterns of the physical earth and man's environment. Central focus on the functional interrelationships of geography, land forms, climate, soil, vegetation and water.

GEO 130 Human Ecology

Concerned with the conservation of natural resources and man's role in altering the face of the earth.

GEO 150 World Regional Geography

A survey of the whole earth by continent and natural regions; basic physical, cultural, socioeconomic and political factors are considered.

GEO 204 New Jersey Wildlife at the Crossroads

A study designed to introduce the student to the complexities of wildlife management in the heart of the urbanized Northeast U.S. A variety of field trips are taken to help the student experience manland-animal relationships.

GEO 230 Population and Settlement Geography

A geographical interpretation of the world's population distribution, numbers and dynamics through time. Special emphasis on the distribution of man's habitation forms and patterns, including the functioning of urban areas.

GEO 233 Geography of World Economic Activity

Examines man's economic activities on a global scale. Contributions of cultural and physical environmental factors to these activities are analyzed.

GEO 250 The Historical Geography of the Bible Lands

An analysis of the geography of the ancient Near East and other ancient Near Eastern areas.

GEO 300 Geopolitics

The influence of such factors as location, size, form, surface, climate, natural resources and population on the political development of nations and their roles in world politics.

GEO 310 Trade and Transportation Geography

A study of the exchange of commodities among the world's trading nations and an examination of the types of transport for the convenience of freight and passengers.

GEO 330 The Geography of the Metropolitan Area

A study of the four basic elements of the greater New York area: physical setting and geographical location, historical development, activities and cultural functions.

GEO 331-380 Geographical Area Studies

Each of these geographical area studies deals with the geographical analysis of the region's physical features, natural resources, cultural patterns, problems, and economic potentials, together with Its place in the world.

GEO 331 Asia's Geography and Problems

GEO 332 Middle East's Geography and Problems

GEO 333 Europe's Geography and Problems

GEO 334 Africa's Geography and Problems

GEO 335 Latin America's Geography and Problems

GEO 336 The Soviet Union's Geography and Problems

GEO 337 Australia and Oceania's Geography and Problems

GEO 338 United States and Canada's Geography and Problems

GEO 339 New Jersey's Geography and Problems

GEO 350 Geo-Economics of Energy and Man

GEO 360 Geo-Economics of Food and Hunger

A discussion of the phenomenon of hunger and malnutrition in mankind. Analyzes the question of adequacy of food resources on both regional and global basis. Future food supply and food consumption are investigated, and the impact of food or hunger on world peace and political structure is studied.

GEO 365 Man, Nature and Wildlife

Aspects of biography and zoogeography, designed to introduce basic ecological and geographic concepts concerning management practices.

GEO 370 Global Ecology

An analysis of the various global ecological elements such as atmosphere, hydrosphere, biosphere and the impact of modern technology upon them; deals with the consequences of the damages to the ecological elements and possible solutions to protect world ecology.

GEO 400 Urban Geography

A geographical analysis of the distribution of cities, urban functions and internal forms and patterns, along with urban expansion, rural-urban fringe and problems of site and situation.

GEO 401 Cartography

A basic course in map making. Covers projections, thematic, relief and statistical cartography.

GEO 404 Polar and Alpine Geography

Analyzes interrelationships among the parameters of location, size, range of physical and cultural features and the ultimate impact of modern technology on these fragile ecosystems.

GEO 405 The Geography of Oceans

A synthesis of the techniques and competencies of physical, cultural, economic and political geography as they apply to the oceans of the world. How human life and activity are affected by oceanic geography is explored.

GEO 410 The Historical Geography of the United States

Past landscapes in the various culture-regions of the U.S. Physical habitat and social patterns are studied in their continuous interaction through time. Special attention is given to the concept of "regional character."

GEO 416 The Military Geography of the Twentieth Century

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

GEO 480 Senior Seminar

A description of the aims, methods, deeds and rewards of geography as a discipline. Considers programs and positions in geography.

GEO 499 Independent Study

As approved and to be arranged. 1-3 credits

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- GARY GERARDI, Associate Professor, Chemistry, Physics and Environmental Science. B.S., Manhattan College; M.S., Ph.D., St. John's University. Appointed September 1977.
- ALICE GERMANO, Assistant Director, Career Counseling and Placement. B.A., M.A., Seton Hall University. Appointed August 1979.
- TIMOTHY R. GERNE, Professor, Elementary Education. A.B., St. Peter's College; M.A., Seton Hall University; Ed.D., New York University. Appointed September 1966.
 ADAM G. GEYER, Professor, Elementary
- ADAM G. GEYER, Professor, Elementary Education. B.A., M.A., Montclair State College; Ph.D., Fordham University. Appointed September 1968.
- **ROBERT GIANNETTI,** Director, Grants. B.A., Niagara University; M.A., Ph.D., Duquesne University. Appointed September 1980.
- JILL GIATTINO, Assistant Professor, Speech Pathology. B.A., City College of CUNY; M.A., Hunter College CUNY; Ph.D., City University of New York. Appointed September 1978.
- BETSY GLANTZ, Assistant Registrar 1. B.S., SUNY Geneseo. Appointed July 1973.
- RONALD GLASSMAN, Assistant Professor, Sociology/Anthropology and Geography. B.A., Queens College CUNY; M.A., Ohio State University; Ph.D., New School for Social Research. Appointed September 1979.
- FRANK GLAZIER, Athletic Coach. B.A., Baldwin Wallace College; M.P.E., Springfield College. Appointed August 1978.
- FLORENCE GOLDBERG, Assistant Professor, Elementary Education. B.A., Brooklyn College CUNY; M.A., Teachers College, Columbia University. Appointed September 1968.
- **ROBERT GOLDBERG**, Director, Library Services. Professor. B.A., St. John's College, M.A., Georgetown University, Ph.D., Rutgers University. Appointed August 1975.
- ELEANOR M. GOLDSTEIN, Professor, Mathematics. B.S., City College CUNY; M.S., Case Institute of Technology; Ph.D., City University of New York. Appointed September 1969.
- JOHN P. GOWER, Professor, Administrative, Adult and Secondary Programs. B.A., University of Maine; M.Ed., Ed.D., Teachers College, Columbia University. Appointed September 1967.
- VIRGIE E. GRANGER, Associate Professor, English. B.A., University of Northern Iowa; M.A., California State University at Los Angeles. Appointed September 1966.
- BARBARA M. GRANT, Professor, The Community, Early Childhood and Language Arts. B.S., The William Paterson College of. New Jersey; M.ED., University of Virginia; Ed.D., Teachers College, Columbia University. Appointed September 1963.
- NEIL G. GRANT, Associate Professor, Biology. B.S., University of Illinois; Ph.D., University of North Carolina. Appointed September 1977.
- WILL B. GRANT, Professor, Theatre. B.S., Southern Illinois University, M.A., University of Washington; Ph.D., Cornell University. Appointed September 1970.

- JUDITH GREEN, Associate Professor, Psychology and Biology. A.B., Bard College; Ph.D., University of Rochester, School of Medicine. Appointed September 1977.
- GEORGE GREGORIOU, Associate Professor, Political Science. B.A., Ph.D., New York University. Appointed September 1968.
- DAINE GREY, Associate Professor, Psychology. B.S., Delaware State College; M.S., Ph.D., Princeton University. Appointed September 1975.
- VERNON E. GRIER, Associate Dean of Students. B.A., Sacramento State College; M.S.W., Hunter College CUNY. Appointed October 1974.
- FRANK GRIPPO, Assistant Professor, Accounting, Law and Criminal Justice. B.S., Seton Hall University; M.B.A., Fairleigh Dickinson University; New Jersey C.P.A. Appointed September 1979.
- CAROL S. GRUBER, Associate Professor, History. B.A., Brandeis University; M.A., Ph.D., Columbia University. Appointed January 1977.
- BRUCE A. GULBRANSON, Associate Professor, Theatre. B.S., New Bedford Institute of Textiles and Technology; M.A., University of Virginia; M.S., Institute of Textile Technology; Ed.D., Teachers College, Columbia University. Appointed September 1966.
- HARRY T. GUMAER, Professor, Administrative, Adult and Secondary Programs. A.B., M.A., SUNY, Albany; Ed.D., Teachers College, Columbia University. Appointed September 1969.
- NANCY GUPTILL, Assistant Professor, Music. B.M., M.M., University of Wisconsin. Appointed September 1969.
- MARTIN E. HAHN, Professor, Biology, B.A., Ohio State University; M.A., Ph.D., Miami University, Ohio. Appointed September 1973.
- MICHAEL HAILPARN, Professor, Philosophy. B.A., Fresno State College; M.A., Ed.D., Teachers College, Columbia University. Appointed September 1965.
- HELLA M. HAKEREM, Associate Professor, Nursing. B.S., Hunter College CUNY; M.A., Teachers College, Columbia University. Appointed September 1968.
- SALLY N. HAND, Associate Professor, English. B.A., University of Georgia; M.A., Florida State University; Ph.D., New York University. Appointed September 1964.
- SHARON R. HANKS, Associate Professor, Biology. B.A., Scripps College; M.S., Ph.D., Rutgers University. Appointed September 1974.
- CECILE HANLEY, Dean, Special Programs. B.F.A., Columbia University; M.A.,* Hunter College CUNY; Ph.D., Temple University. Appointed August 1980.
- **R. BRUCE HARDE,** Assistant Professor, Chemistry, Physics and Environmental Science. B.A., Wesleyan University; M.Div., Yale University; M.U.P., New York University. Appointed September 1978.
- BERCH HAROIAN, Dean, School of Management. Professor, Business, Economics and Computer Science. B.B.A., City College CUNY; M.A., Ph.D., New York University. Appointed August 1978.
- **BRENDA HARRIS**, Assistant Registrar 1. B.A., Douglass College. Appointed September 1977.

- GLORIA HARRIS, Associate Professor, Nursing. B.S., Seton Hall University; M.A., New York University. Appointed September 1979.
- CATHERINE R. HARTMAN, Associate Professor, Administrative, Adult and Secondary Programs, B.S., Appalachian State Teachers College; M.A., Professional Diploma, Teachers College, Columbia University. Appointed September 1964.
- HAROLD R. HARTMAN, Professor, Administrative, Adult and Secondary Programs. B.S., Rider College; M.A., Professional Diploma, Ed.D., Teachers College, Columbia University. Appointed February 1967.
- JOAN R. HARTMAN, Assistant Professor, English B.A., Fairleigh Dickinson University; M.A., New York University. Appointed September 1965.
- JOHN HASKELL, Speech and Hearing Clinic Coordinator. B.A., Brandeis University; M.A., Ed.D., Teachers College, Columbia University. Appointed October 1975.
- MARYAM HASTINGS, Assistant Professor, Mathematics. B.A., Fairleigh Dickinson University; M.A., University of Michigan; Ph.D., University of Toledo. Appointed September 1978.
- JAMES D. HAUSER, Associate Professor, English. B.A., M.A., Ph.D., University of Pennslyvania. Appointed September 1970.
- THOMAS B. HAVER, Associate Professor, Psychology. B.S., Seton Hall University; M.A., New York University. Appointed February 1967.
- AUDREY F. HAVRILIAK, Assistant Professor, The Community, Early Childhood and Language Arts. B.S., M.A., The William Paterson College of New Jersey. Appointed September 1963.
- SUZANNE HAWES, Dean, School of Health Professions and Nursing. Professor, Nursing. B.A., Seton Hill College; B.S., Columbia University; M.A., Teachers College, Columbia University; Ed.D., Rutgers University. Appointed July 1978.
- JOHN DAVID HAXTON, Instructor, Art. B.A., University of South Florida; M.F.A., University of Michigan. Appointed September 1974.
- LEOLA G. HAYES, Professor, Special Education and Pupil Personnel Services, B.S., Winston-Salem University; M.S., City University of New York; Professional Diploma, Teachers College, Columbia University; M.A., Ph.D., New York University. Appointed September 1964.
- **DOROTHY HEIER,** Professor, Music. B.S.M., Nyack Missionary College; M.M., Manhattan School of Music; Ed.D., Teachers College, Columbia University. Appointed September 1965.
- ELIZABETH HESS, Assistant Director, Continuing Education. B.A., Mary Washington College; M.A., Middlebury College; Ph.D., Columbia University. Appointed October 1978.
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- WATHINA HILL, Professor, Speech Pathology. B.S., The William Paterson College of New Jersey; M.A., Ed.D., Teachers College, Columbia University. Appointed February 1962.
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- September 1965. JAMES W. HOBAN, Associate Professor, Eng-
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- LISA HOLDEN, Assistant Director, Admissions. B.A., M.Ed., The William Paterson College of New Jersey. Appointed January 1980.
- JENNIFER HSU, Assistant Professor, Speech Pathology, B.A., University of California at Berkeley; M.A., Gallaudet College; M.A., City University of New York. Appointed September 1979.
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- ERH-WEN HU, Associate Professor, Business, Economics and Computer Science. B.S., Cheng-Kung University; M.S., University of Cincinnati; M.S., SUNY Stony Brook; Ph.D., Polytechnic Institute of New York. Appointed September 1978.
- JOHN J. HUBER, Director, Student Teaching. Assistant Professor, Elementary Education. B.A., Montclair State College; M.A., Seton Hall University. Appointed December 1961.
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- PAMELA HUCK, Administrative Assistant, Business and Finance. B.A., M.A., The William Paterson College of New Jersey. Appointed September 1978.
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- CAROL HUEBNER, Instructor, Art. B.A., Antioch College; M.F.A., Rochester Institute of Technology. Appointed September 1978.
- LEONORE B. HUMMEL, Professor, Elementary Education, B.S., Queens College; M.A., Ed.D., Teachers College, Columbia University. Appointed September 1960.
- GARY L. HUTTON, Director, Housing Services. B.S., The William Paterson College of New Jersey. Appointed August 1974.
- SEYMOUR C. HYMAN, President. Professor, Chemistry, Physics and Environmental Science, B.Ch.E., City College CUNY; M.S., Virginia Polytechnic Institute; Ph.D., Columbia University. Appointed March 1977.
- STELLA E. HYMAN, Assistant Professor, Mathematics. B.S., Syracuse University; M.S., New York University. Appointed September 1968.
- VERONICA IGBANUGO, Assistant Professor, Movement Sciences and Leisure Studies. Teachers Certificate, Chelsea College of Physical Education; M.S., Smith College; Ed.D., Teachers College, Columbia University. Appointed September 1979.

- ALLEN ISAACSON, Associate Professor, Biology. B.S., City College CUNY; M.A., Harvard University; Ph.D., New York Univer-. sity. Appointed September 1969.
- RICHARD J. JAARSMA, Professor, English. A.B., Hope College; M.A., Ph.D., Rutgers University. Appointed September 1969.
- JINAN JABER, Administrative Assistant, Office of the Dean of Students. B.S., SUNY Stony Brook; M.Ed., Slippery Rock State College. Appointed September 1977.
- J. THOMAS JABLE, Professor, Movement Sciences and Leisure Studies. B.S., University of Dayton; M.A., M.Ed., Ph.D., Pennsylvania State University. Appointed December 1975.
- HERBERT G. JACKSON, Assistant Professor, Communication. B.A., Tufts University. Appointed. September 1973.
- MAHENDRA JANI, Assistant Professor, Mathematics. B.S., Gujarat University; M.S., Ph.D., City University of New York. Appointed September 1980.
- VASANTI JATEGAONKAR, Assistant Professor, Business, Economics and Computer Science. B.Sc., M.Sc., University of Bombay; M.A., University of Rochester; Ph.D., Cornell University. Appointed September 1980.
- AMY G. JOB, Librarian 1. B.A., M.A., Montclair State College; M.L.S., Rutgers University. Appointed September 1968.
- KENNETH A. JOB, Professor, Elementary Education. B.S., Jersey City State College; M.A., Ed.D., New York University. Appointed September 1960—62. Appointed September 1964.
- LESLIE A. JONES, Assistant Professor, African and Afro-American Studies. B.A., M.A., St. John's University. Appointed September 1970.
- JOHN S. JORDAN, Assistant Professor, African and Afro-American Studies. B.A., University of California at Los Angeles; Diploma in Education, University of East Africa; M.Ed., Ph.D., Teachers College, Columbia University. Appointed September 1974.
- ANGELO JUFFRAS, Professor, Philosophy. B.A., Hunter College CUNY; Ph.D., Columbia University. Appointed September 1970.
- CHARLES JURY, Director, Computer Services. B.S., Fairleigh Dickinson University. Appointed January 1971.
- JOHN KAFTEN, Academic Adviser 2. B.A., M.S., C.W. Post College. Appointed January 1980.
- GARY KAHN, Assistant Professor, Accounting, Law and Criminal Justice. B.S., Hunter College CUNY; M.B.A., Long Island University. Appointed January 1974.
- MEYER KAPLAN, Professor, Mathematics. B.A., Hunter College CUNY; M.A., Adelphi College; Ph.D., Stevens Institute of Technology. Appointed September 1969.
- **ERVIN KEDAR,** Professor, Sociology/ Anthropology and Geography. B.A., M.A., Ph.D., Hebrew University of Jerusalem. Appointed September 1972.
- BARBARA KELLUM, Instructor, Nursing (parttime). B.S.N., Boston College. Appointed September 1980.
- **TERRENCE P. KENEFICK,** Assistant Professor, Elementary Education. B.A., B.S., M.A., Ohio State University; M.S., Syracuse University. Appointed September 1963.

- MILTON S. KESSLER, Associate Professor, Administrative, Adult and Secondary Programs. B.A., M.A., Ph.D., New York University. Appointed September 1968.
- KI HEE KIM, Professor, Business, Economics and Computer Science. B.A., Dan Kook University, M.A., Ph.D., University of Texas. Appointed September 1980.
- SHARON KINDER, Special Events Coordinator, Student Center. B.S., Montclair State College. Appointed January 1981.
- GARY KIRKPATRICK, Associate Professor, Music. B.M., Eastman School of Music; Artist's Diploma, Academy for Music and Dramatic Arts, Vienna. Appointed September 1973.
- SUZANNE F. KISTLER, Assistant Professor, English. B.A., Swarthmore College; M.A., C.W., Post College; Ph.D., SUNY Stony Brook. Appointed September. 1973.
- RUTH A. KLEIN, Professor, Special Education and Pupil Personnel Services, and The Community, Early Childhood and Language Arts. B.S., Jersey City State College; M.A., New York University; Ed.D., Rutgers University. Appointed March 1955.
- **THORNTON KLOS,** Associate Professor, Communication. B.A., State University of Iowa, A.M., Columbia University; Ph.D., University of Texas. Appointed September 1978.
- **ROBERT J. KLOSS,** Professor, English. B.S., Pennsylvania State University; M.A., Ph.D., Columbia University. Appointed September 1969.
- JUDY KNUDSON, Assistant Director, Continuing Education. B.A., North Dakota State University; M.A., University of South Dakota. Appointed March 1981.
- ADRIENNE KORMAN, Librarian 2. B.A., Douglass College; M.L.S., Rutgers University. Appointed February 1977.
- MARY ELLEN KRAMER, Community Affairs Coordinator, Office of College Relations (part-time). B.A., Mary Washington College; M.A., George Washington University. Appointed January 1980.
- RONALD S. KRATE, Associate Professor, Psychology. B.A., City College CUNY; M.A., Teachers College, Columbia University. Appointed September 1967.
- JEFFREY J. KRESKY, Assistant Professor, Music. B.A., Columbia College; M.F.A., Ph.D., Princeton University. Appointed September 1973.
- MARTIN KRIVIN, Professor, Music. B.S., State Teachers College, Indiana, Pennsylvania; M.A., New York University; Ph.D., State University of Iowa. Appointed September 1960.
- **ROBERT P. KROECKEL**, Director, Institutional Planning. Assistant Professor, Mathematics. A.B., Drew University; Ed.M., Rutgers University. Appointed September 1965.
- SUSAN KUVEKE, Assistant Professor, Special Education and Pupil Personnel Services. B.S., SUNY Oneonta; M.Ed., University of Illinois; Ph.D., Yeshiva University. Appointed July 1974.
- **BARRY KWALICK,** Instructor, English. A.B., Rutgers University; M.A., Columbia University. Appointed September 1978.

- HIDONG K. KWON, Librarian 1. B.A., Yonsei University; M.L.S.; Columbia University; M.A., Montclair State College. Appointed September 1966.
- STANLEY KYRIAKIDES, Professor; Political Science. A.B., Brooklyn College CUNY; M.B.A., Ph.D., New York University. Appointed September 1965.
- SUNG Y. LA, Professor, Chemistry, Physics and Environmental Science. B.S., West Virginia Wesleyan College; Ph.D., University of Connecticut. Appointed September 1968.
- ROBERT L. LATHEROW, Professor, Music. B.S., Western Illinois University; M.M., Butler University; Professional Diploma, Ed.D., Teachers College, Columbia University. Appointed September 1964.
- SUSAN A. LAUBACH, Associate Professor, Movement Sciences and Leisure Studies. B.S., Douglass College; M.Ed., Rutgers University; Ed.D., Teachers College, Columbia University. Appointed September 1966.
- MARTIN M. LAURENCE, Professor, Business, Economics and Computer Science. B.S., Columbia University; M.B.A., Ph.D., New York University. Appointed September 1970.
- DOMINICK A. LAURICELLA, Assistant Pro-
- fessor, Elementary Education, B.S., Jersey City State College; M.A., The William Paterson College of New Jersey. Appointed February 1968.
- ALAN H. LAZARUS, Assistant Professor, Art. B.F.A., M.F.A., Rochester Institute of Technology. Appointed September 1974.
- CHARLES W. LEE, Professor, Chemistry, Physics and Environmental Science. B.S., M.S., University of Chicago; Ph.D., Texas A & M University. Appointed September 1977. GERARD LEE, Director, Educational Op-
- portunity Program. A.B., Shaw University; M.A., Kean College. Appointed August 1977
- KATHLEEN F. LEICHT, Assistant Professor, Special Education and Pupil Personnel Services. B.S., SUNY Geneseo; M.S., City College CUNY. Appointed September 1964.
- HOWARD B. LEIGHTON, Professor, Art. B.S., University of Cincinnati; B.S., Miami University; Ohio; M.A., Ed.D., Teachers College,
- Columbia University. Appointed September 1962 ADELE L. LENROW, Associate Professor, Com-
- munication. B.A., Hunter College CUNY; M.A., Ed.D., Teachers College, Čolumbia
- University. Appointed September 1967. JO ELLEN LEONARD, Assistant Professor, Nursing (part-time). B.S., Ohio State University;
- M.A., Teachers College, Columbia University. Appointed January 1981. ROBERT LEPPERT, Professor, Theatre. B.A.,
- Drew University; M.A., Ed.D., Teachers College, Columbia University. Appointed September 1956 CHO KIN LEUNG, Professor, Business, Eco-
- nomics and Computer Science. B.A., Hwa Kiu University, Hong Kong; M.A. Ph.D., New York University. Appointed September 1974.
- GLORIA A. LEVENTHAL, Associate Professor, Psychology. A.B., Hunter College CUNY; M.A., Ph.D., Yeshiva University. Appointed September 1972.

- BERNARD S. LEVINE, Associate Professor, Mathematics. A.B., Drew University; A.M., The State College of Washington at Pullman. Appointed September 1962.
- DONALD M. LEVINE, Professor, Biology. B.A., University of Vermont; M.S., University of Rhode Island; Ph.D., University of Pennsylvania. Appointed September 1962.
- JEAN LEVITAN, instructor, Health Science. B.A., Case Western Reserve University; M.A., New York University. Appointed September 1978.
- NORMA LEVY, Librarian 3. B.A., New York University; M.L.S., Pratt Institute. Appointed May 1979
- AUBYN LEWIS, Assistant Director, Educational Opportunity Program. B.S., City University CUNY; M.S., University of Bridgeport. Appointed July 1978.
- DUN JEN LI, Professor, History, B.A., National Chekiang University; M.S., Ph.D., University of Wisconsin. Appointed September 1958
- CLIFTON LIDDICOAT, Associate Professor, Business, Economics and Computer Science. B.S., East Stroudsburg State College; M.A., Temple University. Appointed September 1966.
- DONALD LIGUORI, Coordinator, Veterans' Affairs. B.A., The William Paterson College of New Jersey. Appointed September 1976.
- STUART G. LISBE, Professor, Health Science. B.S., M.S., City College CUNY; Ed.D., SUNY Buffalo. Appointed September 1968.
- EUGENE LOTITO, Visiting Specialist, Theatre (part-time). B.A., M.A., The William Paterson College of New Jersey. Appointed September 1979:
- JAY F. LUDWIG, Dean, School of the Arts and Communication. Professor, Theatre. B.A., Montclair State College; M.A., Bowling Green University; Ph.D., University of Illinois. Appointed September 1961. Appointed Dean July 1970.
- WILLIAM LUHRS, Coordinator, Media and Technology. B.S., SUNY New Paltz; M.A., Montclair State College. Appointed October 1976.
- KARL R. LUNDE, Professor, Art. B.A., M.A., Ph.D., Columbia University. Appointed September 1970.
- JOYCE R. LYNCH, Professor, Art. B.A., University of Minnesota; M.A., Ed.D., Teachers College, Columbia University. Appointed February 1964.
- H. DOROTHY MACIOROWSKI, Associate Professor, Nursing. B.S., Jersey City State College; Ed:M., Teachers College, Columbia University, Appointed September 1968.
- CLYDE MAGARELLI, Assistant Professor, Sociology/Anthropology and Geography. B.A., M.A., University of Maryland; Ph.D., SUNY Binghamton. Appointed September 1967.
- CHARLES J. MAGISTRO, Assistant Professor, Art. B.F.A., Carnegie-Mellon' University; M.F.A., Ohio State University. Appointed January 1977
- STANLEY MAHLAHLA, Assistant Professor, Business, Economic and Computer Science. B.S., SUNY New Paltz; M.B.A., St. John's University. Appointed September 1975.

- DOROTHEA C. MALCOLM, Assistant Professor, Elementary Education. B.A., The William Paterson College of New Jersey; M.A., Professional Diploma. Teachers College, Columbia University. Appointed September 1965.
- ANTHONY M. MALTESE, Professor, Communication. B.A., Rutgers University, M.A., Teachers College, Columbia University; Ph.D., Ohio University. Appointed September 1960.
- JOHN R. MAMONE; Assistant Professor, The Community, Early Childhood, and Language Arts. B.A., Thiel College; Diploma, University of Madrid; M.A., University of Pennsylvania; Ed.D., Rutgers University. Appointed September 1969.
- CARL J. MANCUSO, Assistant Professor, Administrative, Adult and Secondary Programs. B.S., University of Scranton; M.A., Montclair State College. Appointed September 1967.
- FORT P. MANNO, Associate Professor, English. B.A., Bates College; M.A., University of Connecticut; Ph.D., University of Minnesota. Appointed September 1966.
- ROBERT MARESCO, Assistant Professor, Accounting, Law and Criminal Justice. B.S., M.B.A., St. John's University. Appointed September 1980.
- MARGARET MARSHALL; Professor, Nursing. R.N. Diploma, New Castle Hospital School of Nursing; B.S., M.S., Rutgers University. Appointed January 1967.
- ROSANNE T. MARTORELLA, Assistant Professor, Sociology/Anthropology and Geography. B.A., City College CUNY; M.A., Ph.D., New School for Social Research. Appointed September 1977.
- WILLIAM MASON, Assistant Professor, The Community, Early Childhood, and Lan-guage Arts. B.S. Ed., Temple University; M.R.E., M.Div., New York Theological Seminary; D.Min., Drew University. Appointed September 1971.
- GREGG MAYER, Coordinator, Arts Publicity, Office of College Relations. A.B., Washington University, St. Louis. Appointed July 1979.
- ANTHONY J. MAZZELLA, Associate Professor, English. B.A., Seton Hall University; M.A., Ph.D., Columbia University. Appointed September 1968.
- ROBERT J. MCCALLUM, Associate Professor, Chemistry, Physics and Environmental Science. B.S., Clarkson College; Ph.D., University of Minnesota. Appointed September 1978.
- VERNON MCCLEAN, Associate Professor, African and Afro-American Studies. B.A., St. Augustine's College; M.A., Atlanta University; Ed.D., Teachers College, Columbia University. Appointed September 1969.
- MARIE MCELGUNN, Assistant Professor, Nursing (part-time). R.N. Diploma, Kings County Hospital School of Nursing; B.S., M.S., Hunter College CUNY. Appointed
- January 1975, RICHARD MCGUIRE, Textbook Buyer/ Assistant to the Manager, Bookstore. B.A., The William Paterson College of New Jersey. Appointed November 1977. -

- WILLIAM J. MCKEEFERY, Professor, Philosophy. B.S., University of Pennsylvania; M.Div., Princeton Theological Seminary; Ph.D., Columbia University. Appointed July 1973.
- JOSEPH MCNALLY, Director, Admissions. B.S., Seton Hall University; M.A., Jersey City State College. Appointed July 1980.
- SUSAN MCNĂMARA, Associate Professor, English. B.A., Lake Erie College, M.A., University of Pennsylvania. Ph.D., New York University. Appointed September 1967.
- KENNETH MEDASKA, Assistant Director, Housing Services: B.A., The William Paterson College of New Jersey. Appointed April 1980.
- MARTHA H. MEEK, Assistant Director, Athletics. Instructor, Movement Sciences and Leisure Studies. B.S., Trenton State College; M.Ed., Pennsylvania State University. Appointed September 1965.
- ASHOT MERIJANIAN, Professor, Chemistry, Physics and Environmental Science. B.Sc., Abadan Institute of Technology; M.A., Ph.D., University of Texas at Austin. Appointed September 1966.
- RAYMOND W. MILLER, Associate Professor, History. B.A., Wagner College; M.A., Teachers College, Columbia University. Appointed September 1946.
- BARBARA D. MILNE, Director, Student Activities. B.A., The William Paterson College of New Jersey. Appointed April 1978.
- **BERNARD MINTZ,** Executive Assistant to the President. B.S., City College CUNY; M.A., Columbia University. Appointed September 1977.
- EUGENE MITCHELL, Director, Media and Technology. Librarian 1. B.A., Canisius College; M.L.S., Rutgers University. Appointed June 1974.
- STUART MITCHELL, Assistant Professor, Accounting, Law and Criminal Justice, B.A., Brooklyn College CUNY; LL.B., St. John's University. Appointed September 1979.
- VIRGINIA R. MOLLENKOTT, Professor, English. A.B., Bob Jones University; M.A., Temple University; Ph.D., New York University. Appointed September 1967.
- ALBERTO MONTARE, Associate Professor, Psychology. B.A., M.S., City University CUNY; Ph.D., Yeshiva University. Appointed September 1980.
- MARGUERITE C. MORENO, Professor, The Community, Early Childhood and Language Arts. B.A., College of Mount St. Vincent; M.A., Seton Hall University; Ph.D., Fordham University. Appointed September 1970.
- **ROBERT L. MORGAN;** Associate Professor, Theatre. B.S., M.A., Ball State University; Ph.D., University of Illinois. Appointed September 1969.
- WILLIAM MUIR, Associate Professor, Art. B.A., M.S., University of Michigan. Appointed September 1960.
- **RODNEY T. MYATT,** Assistant Professor, Philosophy. B.S., M.A., Ph.D., New York University. Appointed September 1964.
- HELENA MYERS, Assistant Director, Financial Aid 1. B.A., The William Paterson College of New Jersey. Appointed December 1975.

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- OUMAR NABE, Associate Professor, Business, Economics and Computer Science. B.A., University of California at Berkeley; M.A., New School for Social Research; M.S., M.B.A., M.Phil., Columbia University. Appointed September 1977.
- **IRWIN NACK**, Associate Professor, History. A.B., Long Island University; M.A., Columbia University. Appointed September 1964.
- IRENE NATIVIDAD, Director of Continuing Education. B.A., Long Island University; M.A., M.Phil., Columbia University. Appointed December 1977.
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