

Kean University

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Summer 6-1-1976

### Course Catalog, Summer 1976

Kean College of New Jersey

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# SUMMER '76 at KEAN



We are pleased to publish our 41st summer schedule; close to four hundred courses and workshops in the arts and sciences, technologies, education and interdisciplinary studies for graduate and undergraduate men and women.

This summer, as in the past, the College expects to serve some 8,000 students at the Union Campus and at Brookdale Community College in Lincroft.

The Union campus is an ideal summer setting—120 acres of woodland and broad lawns, with swimming pool, tennis courts and other recreational facilities. Comfortable on-campus residence is available in the College Apartments.

The location of the campus is excellent. Its proximity to the metropolitan area and access to major networks of transportation make continuous cultural and intellectual interchange between the cities and the College possible.

Parking for visitors and for commuting faculty and students is provided.

This bulletin is your invitation to take advantage of the program offered this summer at Kean. Please call or contact the Office of Summer Session for any information or assistance we may provide. The office is located on the second floor of the Administration Building, telephone (201) 527-2163.

With best wishes,

Marion L. Parsons, Director  
Summer Session and Special Programs





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## Calendar for Summer 1976

March 19 Friday Advance registration: Intersession/Summer Session  
 through  
 March 26 Friday

### Intersession

May 15 Saturday In-person registration for intersession  
 June 4 Friday Last day to withdraw from courses for 90% refund  
 June 7 Monday Classes begin  
 June 7 Monday Late registration  
 June 8 Tuesday Change of registration  
 June 11 Friday Last day to withdraw from courses for 50% refund  
 June 18 Friday Last day to withdraw from courses with WD grade  
 June 25 Friday Classes end

### Summer Session

June 15 Tuesday Last day to file late application for August 1976  
 bachelor's degree  
 June 15 Tuesday In-person registration for matriculated students  
 and students with degrees  
 June 16 Wednesday In-person registration for all other students  
 June 23 Wednesday In-person registration for courses offered at Brookdale  
 June 24 Thursday Late registration  
 June 25 Friday Last day to withdraw from six-week and first three-week  
 courses for 90% refund  
 June 28 Monday Classes begin  
 June 28 Monday Change of registration  
 through  
 June 29 Tuesday  
 July 1 Thursday Last day to file for graduate certification if program  
 is to be completed by end of summer session  
 July 2 Friday Last day to withdraw from first three-week courses  
 for 50% refund  
 July 9 Friday Last day to withdraw from six-week courses for  
 50% refund  
 July 12 Monday Last day to withdraw from first three-week courses  
 with WD grade  
 July 15 Thursday First three-week courses end  
 July 16 Friday Last day to withdraw from second three-week courses  
 for 90% refund  
 July 19 Monday Second three-week courses begin  
 July 23 Friday Last day to withdraw from second three-week courses  
 for 50% refund  
 July 23 Friday Last day to withdraw from six-week courses for WD  
 grade  
 July 27 Tuesday Last day to withdraw from second three-week  
 courses for WD grade  
 August 5 Thursday Classes end

# General Information

## Course Load

Unless prior approval has been given by the Office of Academic and Career Planning and Placement, only one course may be taken during intersession. No more than two courses may be taken during summer session.

### Course Level Identification

1000 — Freshman  
2000 — Sophomore  
3000 — Junior  
4000 — Senior  
5000 — Graduate

## Accreditation and Affiliation

Kean College of New Jersey is accredited by the Middle States Association of Colleges and Secondary Schools and many of its programs are approved by the National Council for Accreditation of Teacher Education. The College is licensed by the New Jersey State Department of Higher Education and retains memberships and affiliations which include the following:

National Commission on Accrediting  
American Association of State Colleges and Universities  
American Association of Colleges for Teacher Education  
New Jersey Association of Colleges and Universities  
American Association of University Women (corporate)  
American Council on Education  
College Entrance Examination Board  
National School Public Relations Association  
Association of College Registrars and Admissions Officers  
Association for Field Services in Teacher Education  
Association of University and Evening Colleges  
Association for Institutional Research  
American College Public Relations Association  
World Future Society

## Academic Studies

Kean College of New Jersey offers instruction in the following academic areas. Separate undergraduate and graduate catalogs are published in which information on curricula, admissions and fees is fully detailed.

### GRADUATE PROGRAMS

Administration and Supervision  
Audiology and Communications Science  
Early Childhood Education  
Education and the Behavioral Sciences  
Education and the Contemporary Civilization  
Education and the Humanities  
Elementary Education — Advanced Specialization  
Fine Arts Education  
Learning Disabilities Specialist (Certification Program)  
Mathematics Education  
Reading Specialist  
School Psychology (Professional Diploma)  
Speech Pathology  
Teaching the Emotionally Disturbed and Socially Maladjusted  
Teaching the Mentally Retarded  
Student Personnel Services (Guidance and Counseling or School Social Work)

### UNDERGRADUATE STUDY AREAS

Afro-American Studies  
Art History  
Bilingual Education  
Biology  
Chemistry  
Computer Science  
Criminal Justice  
Early Childhood Education  
Earth and Planetary Environments  
Economics  
Elementary Education  
English  
Environmental Studies  
Fine Arts  
Foreign Languages  
Future Studies  
Geography  
Geoscience Technology  
Health  
History  
Industrial Studies  
Industrial Technology  
Instructional Media  
Interior Design  
Library Science  
Management Science  
Marine Sciences  
Mathematics  
Medical Technology  
Music  
Occupational Therapy  
Philosophy and Religion  
Physical Education  
Physics  
Political Science  
Pre-Law  
Psychology  
Public Administration  
Reading  
Secondary Education  
Sociology  
Social Work  
Speech and Hearing  
Speech/Theatre/Media Studies  
Teacher of the Handicapped  
Urban and Outdoor Recreation  
Urban Studies  
Visual Communications



## CERTIFICATION

Kean College of New Jersey offers certification programs in:

Elementary Education

Nursery Education

Reading

Teacher-Librarian (Associate Education Media Specialist)

Special Education (Teacher of the Handicapped)

Subject Certificates—English, Foreign Language, Industrial Education, Mathematics, Music, Health & Physical Education, Science, Social Studies.

The preceding programs are designed for persons who already hold degrees with the exception of Industrial Studies, in which certification may be based on work experience; and group nursery school qualification. All other students who have no degrees must be certified through degree programs.

For applications and other information contact: Certification Office, Administration Building, 1st floor, tel. (201) 527-2240.

**Requirement in Human and Intercultural Relations** All teacher certification programs now have a requirement in human and intercultural relations. The following courses are suggested to meet this requirement; those with an asterisk are offered during this summer session.

- \* E.C. 4210 Guiding Early Childhood Teachers to Work with Children from Minority Cultures
- \* Ed. Psy. 3802 Educational Psychology of the Disadvantaged Urban Child
- \* Ed. Psy. 4801 Group Dynamics—Principles and Applications
- \* E.P.S. 4030 Education and Social Change
- \* E.P.S. 4040 Comparative Education
- \* E.P.S. 4050 Urban Education
- E.P.S. 4070 Social Psychological Issues of the American Teacher
- \* Offered during this summer session

## Veterans Benefits

Kean College of New Jersey is approved for the training of veterans. To be certified for benefits the applicant must secure a Certificate of Eligibility (VA Form 21E-1993) from the Veterans Administration at 20 Washington Place, Newark 07102. Once this is obtained and the veteran has registered for classes, he should promptly submit the certification form indicating his school attendance.

VIP, Veterans' Identity Program, offers entrance to college for Vietnam-era veterans through programs tailored to their individual needs. This includes college-level refresher courses and tutorial programs. Enrolled veterans are eligible for educational benefits offered through the G.I. Bill.

Other information of interest to ex-servicemen and women, such as job placement, counseling, etc., is available through the Office of Veteran Affairs, Kean Building, tel. (201) 527-2028.

## College Level Examination Program

CLEP general examinations and subject examinations are given on the third Saturday of each month.

The College Level Examination Program was designed by the Educational Testing Service to test and recognize the knowledge gained by non-traditional ways. Kean College of New Jersey will accept up to 30 credits for the general examinations when a score in the twenty-fifth percentile or better is earned. Up to 15 credits will be accepted from the subject examinations with scores in the fiftieth percentile. Matriculated Kean College students will be charged a \$5.00 per course recording fee in order to have credit posted on transcripts. Registration forms are available in the Administration Building, 2nd floor.

## Academic and Career Planning and Placement

Students desiring professional assistance regarding their programs of studies or placement should consult the Office of Academic and Career Planning and Placement, located on the 1st floor of the Administration Building. The office is open from 8:30 a.m. to 7:00 p.m. Monday, Tuesday, and Thursday and from 8:30 a.m. to 4:30 p.m. Wednesday and Friday. Tel. (201) 527-2030.

Part-time and undergraduate summer employment is arranged in the Office of Financial Aid.

## The Evening Office

The Evening Office is an information center for evening students and faculty. Inquiries concerning such matters as room assignments, faculty teaching locations, transcript requests, withdrawal procedures, changes of name and/or address, and academic advisement may be directed to this office.

The Evening Office is located in Hutchinson Hall, room 106, tel. (201) 527-2566. During Intersession, the office is open until 8:00 p.m., Monday through Friday; during Summer Session on Monday, Tuesday and Thursday until 8:00 p.m., on Wednesday and Friday until 4:30 p.m.

## Class Attendance

Class attendance is optional for all students, subject to the following limitations:

Students are obligated to be present for announced quizzes and examinations. Students who are absent from announced quizzes and/or examinations without substantial excuse (as determined by the professor) shall be subject to failure;

Absence from laboratory or studio sessions shall be by prior agreement with the instructor.

Students are reminded that absence from class neither relieves them of responsibility for course requirements nor absolves them from mastering the subject matter dealt with in class.





## Grading

The academic standing of a student in every subject is reported at the end of each semester by a letter grade.

Credit is granted for the following:

- A—Excellent
- B—Good
- C—Fair
- D—Poor
- P—Passing

*Student teaching is graded on a Pass/Fail basis.*

No credit is granted for the following:

- F—Failure
- Inc—Incomplete Work
- WD—Withdrawn

**Incomplete** A grade of "Incomplete" may be reported for a student who has carried a course with a passing grade until the end of the semester and then because of illness or other unusual and substantiated cause has been unable to take or complete the final examination or to complete some limited amount of assigned work. An "Incomplete" must be removed by the last day of the fall 1976 semester. Any "Incomplete" not removed at the end of this period automatically becomes an "F."

**Withdrawal** A student who withdraws from a course must give written notice to the Office of the Registrar before the last third of the course. Students who neglect to follow this procedure will receive a failing mark for the course or courses which they cease to attend. In computing refunds, the date of withdrawal is the date on which the college received a written notice from the student.

**Pass/Fail** An undergraduate matriculated student in good academic standing who has earned at least 30 semester hours of credit may, at any time before graduation, select a maximum of six courses from free electives to be taken on a *Pass/Fail* basis. Academic credit is granted only for courses where the earned grade is "P." The cumulative grade-point average is not affected by work done on a *Pass/Fail* basis. A grade of "P" will be interpreted as achievement at the level of "C" or better. A grade of "U" will represent failure.

The *Pass/Fail* option must be declared at the time of registration and cannot be changed once declared.

## A GUIDE TO SUMMER ACTIVITIES FACILITIES AND SERVICES

A full program of recreational activities and facilities is available at the Union Campus for summer recreation.

A schedule of events, published as the summer session begins, lists all films, lectures, performing arts and athletics.

Informal social hours with refreshments are held on Wednesday mornings from 9:15-9:45 and on various evenings from 7:30-8:00 on the Library Terrace.

Students also enjoy access to the swimming pool, tennis courts, gymnasium and outdoor facilities. Permission is secured through the Office of the Director of Athletics.

### Bookstore

The Bookstore, located in the Student Services Building, stocks a complete selection of required texts for all courses. In addition, there is a large collection of paper-bound books, jewelry, stationery and novelties.

For the first two evenings of the summer session, the bookstore will be open until 8:00 p.m.; otherwise, the hours are as follows:

#### INTERSESSION

June 2, 3—9:00 a.m.-8:00 p.m.

June 4-20—Mondays, 9:00 a.m.-7:30 p.m./Tuesdays through Fridays, 9:00 a.m.-5:00 p.m.

#### SUMMER SESSION

June 28, 29—9:00 a.m.-8:00 p.m.

June 30-Aug. 2—Mondays, 9:00 a.m.-7:30 p.m./Tuesdays through Fridays, 9:00 a.m.-5:00 p.m.

### College Cafeteria

The cafeteria, located in Downs Hall, is open from 9:30 a.m.-6:00 p.m. Monday-Friday. A wide variety of salads, sandwiches, hot meals, and foods from the grill are available.

### Nancy Thompson Library

The facilities of the Library include 700 seating stations from conference rooms to individual and research study carrels, curriculum materials room, learning resource center, audio visual services, extensive book collections, periodicals and microfilm. Library hours are as follows:

#### INTERSESSION

Monday through Friday, 8:00 a.m.-10:00 p.m.

#### SUMMER SESSION

Monday through Thursday, 8:00 a.m.-10:00 p.m.

Fridays, 8:00 a.m.-4:00 p.m.





## Child Care and Day Camp Program

A child care center for children ages 2-5 and a day camp program for children 6-12 will be conducted during the six weeks of summer session, Monday through Thursday from 8:15 a.m. to 1:50 p.m. Children may be involved in the programs for the entire time or for any portion of the time to fit the parent's schedule.

The child care center, under the direction of the Early Childhood Department, will feature arts and crafts and play activities for the younger children in the Campus School North.

The program for older children emphasizes individual and team sports, dance, games and camping skills supervised by the Department of Health and Recreation.

Enrollment is limited and on a first-come, first-served basis. A nominal fee will be charged according to the time involved. For additional information and an application form, contact the Office of Summer Session and Special Programs, tel. (201) 527-2163.

## Summer Housing

Students studying at Kean this summer may take advantage of the opportunity of on-campus residence in the College's newly constructed midrise apartment complex. Unlike the traditional dormitory style, these units feature 244 two-bedroom apartments and 20 one-bedroom apartments, each with private bath and modern science kitchen facilities. Each apartment is attractively furnished, completely carpeted and centrally air conditioned. Separate thermostats, television hookups and telephone service are available. Laundry facilities are also included on each floor.

Those interested are advised to contact the Housing Office, Dougall Hall, tel. (201) 527-2114 or 2115.

## Parking

All cars operated or parked on college property must have parking permits. Students may purchase permits at the time of registration. After the registration period, permits may be obtained at the Parking Office, Police Headquarters, Dougall Hall between the hours of 8:00 a.m. and 4:00 p.m. Fees are listed on page 6.

During the first week of classes, the Parking Office will remain open until 8:00 p.m., Monday through Thursday. Parking decals may be purchased during this time.

The college assumes no responsibility for the car or its contents while it is parked on college property.

Faculty parking lots are designated by yellow lines or posted signs. Students are not allowed to park in these areas.

Special areas designated 'MEDICAL PERMITS ONLY' are reserved for vehicles with medical permits. To obtain a medical permit, coordination with the Health Center and then the Parking Office is required.

## Counseling Center

The Counseling Center, located in room 143 of the College Center, provides a broad range of psychological services including individual consultation, vocational and personality testing, and group interactional experience. The services are designed to facilitate personal growth and development and to assist students in coping with emotional pressures and dysfunction.

All consultation is completely confidential with no information ever leaving the Center except by request or consent of the student.

All leaves of absence are now processed through the Counseling Center except those given for medical reasons.

The professional staff consists of four psychologists and a consultant psychiatrist who are available for consultation by appointment or on a walk-in basis. Advance appointments may be made by calling (201) 527-2082.

From June through August the Center is open from 8:30 a.m.-4:30 p.m., Monday through Friday.

## Health Services

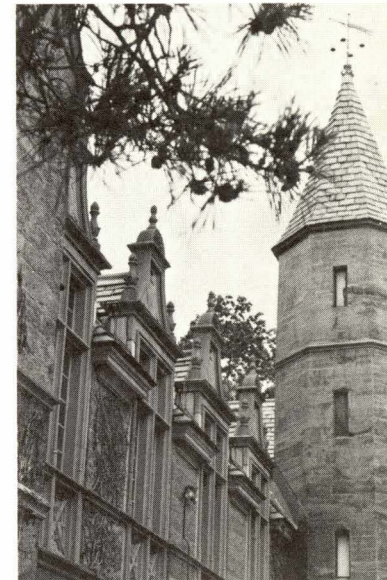
The College Health Service is located in the bookstore building and is open during regularly scheduled summer classes from 8:00 a.m. to 10:00 p.m. Monday through Thursday and 8:00 a.m. to 6:00 p.m. on Friday. Offered at no or low cost to students are first aid and emergency care, short term medical and psychiatric treatment, health information, consultation and referral for venereal disease, pre-marital blood tests, pregnancy testing and birth control information, physical examination for intercollegiate sports, vision and hearing testing, health pamphlets and student medical insurance.

Four physicians in the fields of internal medicine, gynecology, dermatology and psychiatry are available on a part-time basis to all college students. Students requiring special services due to temporary or permanent physical handicaps may apply to the Health Service for elevator keys and special parking permits. Ramps are situated at the entrance of all buildings to accommodate students confined to wheelchairs.

Students living in the college residence halls must enroll in the student medical insurance administered by the college health service. Questions on this or other problems can be answered by calling the Health Service at (201) 527-2047 or the Office of the Dean of Students (201) 527-2190.

## Financial Aid

Information on grants, loans and part-time employment is available in the Financial Aid Office, Administration Building, 2nd floor, tel. (201) 527-2050.



### **Learning Resource Center**

L.R.C. is a resource center whose purpose is to provide special educators and related personnel with ready access to valid instructional materials and information related to the education of exceptional children.

Materials circulate to teachers, parents and students in New Jersey. Materials may be borrowed for a two week period. Material demonstrations and workshops are available upon request. L.R.C. is located in the Nancy Thompson Library, tel. (201) 527-2225.

### **Institute of Child Study**

The Institute of Child Study has been designated as a University Affiliated Facility by the U.S. Department of Health, Education and Welfare.

The institute is a clinical complex in association with various academic programs. It provides evaluation and training services generally to children with learning problems caused by intellectual, physical and emotional disabilities.

The men and women who study at the College in the advanced areas of special education, social services and school psychology have, therefore, excellent opportunities for direct experience and observation in the clinics of the Institute.

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# **Special Workshops and Courses**



## INTERNATIONAL STUDY TOURS



Each of the following tours is a unique combination of international travel and study for which academic credit is granted. Please check all listings for dates and special information. Final costs may vary slightly due to changes in air fare.

Application Deadline: May 1.

For further information and application:

Edwin J. Williams, Coordinator, International Studies

Kean College of New Jersey

Union, New Jersey 07083

Tel. (201) 527-2166

### British Theatre Study Tour

June 27-July 22

The course, to be held in Britain, is a survey of the history and tradition of British theatre. The program is a fully escorted 3½ week study tour, which includes 12 shows in and outside London, including Stratford and regional theatre tours of historic theatres and theatre districts; lectures and meetings with noted directors and performers; tours of theatre museum collections, etc. Optional tours would be available to parts of Great Britain and the Continent.

Students register for either of the following:

**STM 4945 Practical Experiences in Contemporary London Theatre (3)**

**ID 5310 International Education: Travel in Europe (3)**

Approximate Cost: \$750 (exclusive of tuition) includes round-trip airfare, transfers, room, full English breakfast and theatre tickets.

### Workshop in Special Education in Scandinavia July 1-25

The workshop will provide administrators, supervisors and teachers with an educational experience designed to enrich their knowledge of Scandinavian education and culture. Through lectures, seminars, discussions, visits and interviews in Sweden, Denmark, and Norway, students will become familiar with the organization of education and social services in these countries. Emphasis will be on the educational programs, social services and provisions, vocational training, and legislation pertaining to the handicapped.

The workshop will include the opportunity to live with a Danish family for two weeks in Copenhagen and a one week field trip to Oslo, Stockholm, and Uppsala.

The student registers for two of the following 3 credit courses. For graduate degree credit at Kean, prior approval of graduate program advisor is required.

**sec. no. 3010/E.P.S. 5015 Comparative Educational Systems**

**sec. no. 3011/I.D. 5600 Workshop in Educational Systems**

**sec. no. 3012/Sp. Ed. 5010 Psychology of the Handicapped**

**sec. no. 3013/Sp. Ed. 5030 Community Services for the Handicapped**

**sec. no. 3014/Sp. Ed. 5130 Education of Trainable Retarded Children**

**sec. no. 3015/Sp. Ed. 5140 Vocational Guidance for the Mentally Retarded**

**sec. no. 3016/Sp. Ed. 5145 Administration and Supervision of Programs for Mentally Retarded**

Approximate Cost: \$1290 (exclusive of tuition) includes round-trip airfare, with open ended ticket for unlimited travel in Europe, most meals, land transportation.



## Workshop in Open Education and/or Creative Drama in England (6) June 27-July 22

The workshop in Open Education in England is designed to help administrators, supervisors, and teachers meet the challenge of individualizing instruction. It provides an unusual opportunity to explore practices in informal English primary schools while working with English staff and school children.

There will be lectures and workshops in creative drama as well as small group practice and observation with children of all ages to enable participants to develop skills in leading creative drama activities.

The workshop includes a two-week internship in either an English infant or middle school, one week of workshops at the John Taylor Teacher Performance Center at Leeds, one week in London and weekend visits to York, Bronte Country and the Lake District, with an optional visit to Edinburgh.

The student registers for two of the following 3 credit courses:

GRADUATE LEVEL *for graduate degree credit at Kean, prior approval of graduate program advisor is required.*

sec. no. 3003/E.C. 5245 Creative Activities in Early Childhood Education

sec. no. 3004/E.C. 5280 The English "Open Classroom"

sec. no. 3005/E.C. 5581 Seminar in Early Childhood Education I

sec. no. 3006/E.P.S. 5015 Comparative Educational Systems

SENIOR UNDERGRADUATE LEVEL

sec. no. 3001/E.C. 4100 Creative Techniques for Oral Language Development

sec. no. 3002/E.C. 4510 Independent Study in Early Childhood Education

Approximate Cost: \$990 (exclusive of tuition) includes round-trip airfare, transfers, most meals, land transportation.

## GRADUATE WORKSHOPS

Credits earned in the following workshops may be applied to graduate programs at Kean College provided that prior approval is obtained from the program advisor.

Please check all listings for dates, times and fees. *Registration will be with the faculty coordinator only.*

### Workshop in Bicentennial History June 28-August 5

For men and women who have a special interest in the American Bicentennial—teachers, Bicentennial celebrants, town officials, serious history "buffs," graduate students (and selected undergraduate) who seek the opportunity of scholarship enriched by travel—who wish to learn the history and culture of the Revolutionary era on a comprehensive and mature level.

The highlights of the experience will be a field-trip during the fourth week, July 18-22, to Williamsburg, Jamestown, Yorktown, Monticello, Washington and Philadelphia.

There will be at least one other field-trip within New Jersey in addition to those undertaken by students in selected groups. Regular sessions, meeting Monday through Thursday mornings on the Union Campus, will include audio-visual materials and visiting lecturer (John Cunningham). The workshop will close with a final luncheon at the college (included in tuition.)

Students register for:

**sec. no. 3041/Hist. 5360 Workshop in Bicentennial History: Perspectives on the Revolutionary Era (6)**

Analytical study of the origins of colonial ideals and the revolution, new interpretations of the nature of the revolution in terms of social, political, and economic changes, direct examination of colonial life and culture through direct contact; consideration of the traditional military and diplomatic aspects of the struggle; biographical study of participants; and an examination of the developments leading to the making of the Constitution.

Six graduate credits are granted (or undergraduate as needed). Undergraduates may receive permission by consultation with the instructor. The trip is limited to 45.

Costs: \$460 includes \$235 (tuition) and \$225 (tour, four nights in motels with double occupancy, breakfasts, dinners, admissions and gratuities)

Application deadline: June 1

For information, application and registration contact:

Dr. Irving Luscombe  
Department of History  
(201) 527-2168



## The Importance of the High School/College Counselor in the Admissions Dynamic August 8-13

This is a full five day institute, offered in cooperation with the New Jersey Association of College Admissions Counselors and given at Stevens Institute of Technology, Hoboken, to study the strategies, techniques, needs and activities of the college admissions counselor on both the secondary school and college levels. Specific topics will include recruiting, financial aid, decision-making, image-building, testing and counseling.

This workshop has been conducted on a semi-annual basis for the past ten years and enjoys a national reputation within the college counseling community. It is open to all counselors involved in the admissions process and provides an excellent experience for those concerned with the dynamics of this activity.

Workshop participants will be expected to live on the Stevens Institute campus. Room, board, tuition and recreational activities are included in the registration fee. Participants may opt to receive graduate credit through the department of Student Personnel Services, Kean College of New Jersey.

For those seeking credit, there is an Institute Fee (room, board, etc.) of \$175, in addition to the regular tuition and fees listed on page 6. A charge of \$15 will be added for all reservations received after May 1.

Students register for:

**sec. no. 3039/I.D. 5600 Workshop for the High School/College Counselor in the Admissions Dynamic (3)**

For information, application and registration contact:  
Dr. E. Theodore Stier  
Director of Admissions  
(201) 527-2195

## Creative Preparation of Instructional Materials June 28-July 15

Students will analyze specific instructional problems and develop criteria for audio-visual materials to be used in solving these problems. There will be demonstrations of audio-visual production techniques involving materials and equipment. Students will design, organize, and produce tailor-made instructional materials for specific units or areas of course content. Classes run from 12-3:20 p.m., Monday through Thursday.

Students register for:

**sec. no. 3033/I.D. 5600 Workshop in Creative Preparation of Instructional Materials (3)**

Laboratory experience in the preparation and production of audio-visual instructional materials such as transparencies, graphics, simple photography (35 mm slides and 8 mm film), audio and video media.

Prerequisite: Classroom teaching experience.

Tuition: Regular tuition, which includes \$10 deposit.

For information, application and registration contact:

Vincent Merlo  
Instructional Resource Center  
(201) 527-2073

### Entrenamiento Intensivo Para Maestros Bilingües

Este programa está diseñado para los estudiantes interesados en recibir el endorso del certificado del estado de New Jersey como profesores bilingües en nivel elemental o secundario.

Miriam F. Engelsohn, Coordinadora del centro de educación bilingüe  
Willis Hall 402B

Teléfono: (201) 527-2405

#### INTERSESIÓN

**EAS 5610 La Enseñanza de materias en una escuela bilingüe**

#### SESION DE VERANO

**sec. no. 1380/EAS 3710 La Enseñanza de inglés como segunda idioma**

**sec. no. 1080/I.D. 5600 La Lengua y la cultura del niño bilingüe**

**sec. no. 1082/I.D. 5600 La Educación bilingüe-bicultural en las escuelas norteamericanas**

**sec. no. 1078/I.D. 5600 La Enseñanza de inglés a los que no son de habla inglés**

### Undergraduate and Graduate Intensive Training for Bilingual Teachers

This program is designed for those students interested in receiving New Jersey state endorsement as bilingual teachers or an elementary or secondary teaching certificate.

Miriam F. Engelsohn, Coordinator, Center for Bilingual Education  
Willis Hall 402B

Telephone: (201) 527-2405

#### INTERSESSION

**sec. no. 9104/EAS 5610 Teaching Content Areas in a Bilingual Setting**

#### SUMMER SESSION

**sec. no. 1380/EAS 3710 Teaching English as a Second Language**

**sec. no. 1078/I.D. 5600 Teaching English to Non-Native Speakers**

**sec. no. 1080/I.D. 5600 Language and Culture of the Bilingual Child**

**sec. no. 1082/I.D. 5600 Bilingual-Bicultural Education in American Schools**

### New Jersey Marine Science Consortium

As part of the N.J. Marine Science Consortium, Kean College offers in depth study in several areas of marine science at two separate New Jersey shore locations: Seaville Station, Mamora and Sandy Hook Station, Highlands. Students must live on location for the required number of weeks.

Complete descriptions of the courses below may be found in the summer session listings of the departments of Biology and Earth and Planetary Environments.

#### AT THE SEAVILLE STATION:

**sec. no. 3045/Bio. 4430 Birds of the Seashore (2)** June 12-June 25

**sec. no. 3043/Bio. 2650 Introduction to Marine Plants and Animals (4)** July 26-Aug. 20

**sec. no. 3047/E.S. 3264 Marine Paleontology (4)** Aug. 9-Sept. 3

#### AT THE SANDY HOOK STATION:

**sec. no. 3048/Bio. 2650 Introduction to Marine Plants and Animals (4)** June 14-July 9

**sec. no. 3052/E.S. 4454 Marine Geology (4)** June 28-July 23

**sec. no. 3049/Bio. 3000 Marine Biology (4)** July 12-Aug. 6

**sec. no. 3051/E.S. 3453 Introduction to Oceanography (4)** July 26-Aug. 20

**sec. no. 3050/Bio. 4415 Ichthyology (4)** Aug. 9-Sept. 3

Additional courses are offered by other institutional members of the consortium. Fees include regular tuition and registration fees, lab fees, room and board.

For information and registration contact:

Dr. Lee Meyerson

Department of Earth and Planetary Environments

(201) 527-2064



## External Undergraduate Courses

These courses enable students to study independently and offer various forms of communication between students and members of the college faculty. Each course meets once at the regularly scheduled class period during the first week of classes which begins June 28. Additional seminar meetings, on- or off-campus, may also be scheduled.

At the initial class meeting, the instructor explains the method of communication to be used for the balance of the course and arranges for the availability of textbooks, study guides, lecture tapes, and other instructional materials. The primary medium will be written communication; however, audio cassettes and other media may also be used. Students may consult with professors by telephone or in person at the campus.

Full descriptions of the following courses may be found on the appropriate pages of this bulletin:

- sec. no. 6001/Econ. 1020 Principles of Economics I
- sec. no. 6002/Econ. 1021 Principles of Economics II
- sec. no. 6003/Econ. 3600 Government and Business
- sec. no. 6004/Ed. Psy. 3801 Educational Psychology
- sec. no. 6005/Ed. Psy. 3802 Educational Psychology of the Disadvantaged Urban Child
- sec. no. 6006/Eng. 3350 Contemporary Literature
- sec. no. 6008/Mus. 3240 Contemporary Music
- sec. no. 6010/Phil. 1100 Philosophy

For additional information:  
External Education Office (201) 527-2406  
Whiteman Hall, room 117

## College Credit Courses for High School Seniors

Certain courses in English, fine arts, mathematics, music and physical education are open to gifted high school seniors who are interested in earning college credit during the summer session.

Permission is required in writing from the student's high school principal or guidance counselor, and written approval of the respective department chairperson of English, fine arts and music must be obtained prior to registration. Permission statements must be shown at registration. Acceptance will be on space availability. Check registration information for non-matriculated students.

For further information call the Office of Summer Session, (201) 527-2163.

## NON-CREDIT COURSES AND WORKSHOPS

### College Courses Without Credit

A multitude of experiences as well as new information can be gained through the regular course offerings of the college. Many day and evening undergraduate courses may be taken without credit. This is an excellent opportunity to rediscover college work, to open a window on the world and to acquire new insights to meet daily needs.

For further information call the Office of Summer Session, (201) 527-2163.

### Non-Credit Workshops — Continuing Education

Continuing Education at Kean is designed to provide opportunities for personal and social enrichment. A flexible and innovative program of non-credit courses, workshops, conferences and special services is offered to meet the changing needs of individuals, community and industry.

#### CE76301 New Ways to a College Degree

This workshop will serve as an orientation to college study and give participants an opportunity to discuss their own educational plans. Topics will include admissions procedures and requirements, study skills, new ways to a bachelor's degree such as CLEP and external study, and an overview of the programs of study and resources of Kean College of New Jersey. Instructor: Mary Slavitt.

Dates: Tuesdays and Thursdays, July 27, 29, Aug. 3, 5/Time: 7:00-9:00 p.m.  
Fee: \$15/Registration deadline: July 20  
Registration information: Call EVE Women's Center, (201) 527-2210

#### CE75302 Vocational Development Workshop

A workshop for women seeking employment, further education, or future career development. Through a variety of methods, participants will explore their needs, interests, and skills. Participants will concentrate on generating career goals based on realistic self-appraisal and on developing steps to achieve them. Discussion will focus on topics such as occupational outlook, confidence building and resume preparation. Vocational interest testing included. Instructor: Barbara Maher.

Dates: Tuesdays, June 8-July 13/Time: 9:30 a.m.-12 noon  
Fee: \$40/Registration deadline: June 1  
Registration information: Call EVE Women's Center, (201) 527-2210

#### CE76303 The Right to Be You

Do you say "yes" when you really mean "no" or say nothing at all rather than stir things up? This training workshop offers an opportunity through role playing and group discussion to learn ways to assert yourself without being aggressive. Instructor: Mary Ann Bornmann, EVE Counselor.

Dates: Wednesdays, June 9-July 14/Time: 9:30-11:30 a.m.  
Fee: \$40/Registration deadline: June 2  
Registration information: Call EVE Women's Center, (201) 527-2210

#### CE76304 Rapid Reading

This course emphasizes reading speed and efficiency. It will help you absorb more ideas in less time; improve learning skills; remember technical and non-technical material; find more enjoyment in reading. Progress is evaluated through standardized tests. Of special interest to adults in business and industry. Twelve sessions. Limited enrollment. Instructor: Janet Steig.

Dates: Mondays and Wednesdays, June 28-August 4/Time: 8:00-9:00 p.m.  
Fee: \$50/Registration deadline: June 18  
Registration information: Call Office of Continuing Education, (201) 527-2163



**CE76304 C.P.A. Review Course**

Thirty-six hours class time of intensified review of problems on areas of accounting presented in the American Institute of Certified Public Accountants (CPA) Examination, including the following: analysis of ARB's, APB's and FASB's; partnership accounting; capital budgeting, standard cost, job order cost, and process cost systems; and taxation for corporations and individuals. Instructor: Alan Grossberg.

Dates: Monday-Thursday, June 7-25/Time: 7:00-10:00 p.m.

Fee: \$125/Registration deadline: June 1

Registration information: Call Office of Continuing Education, (201) 527-2163

**Vacation College  
July 11-17**

During the second week of July, the offices of Summer Session and Alumni of Kean College of New Jersey are co-sponsoring a vacation college week encompassing the bicentennial theme. We are designing a rewarding experience with lectures, films, panel discussions, seminars, tours and visits to some of the many national monuments and preserved areas of interest with which the New Jersey, New York, Pennsylvania region is richly endowed.

Housing in our campus apartments will be available, as will be meals. All sorts of recreation facilities will be open to participants, such as swimming, tennis, table tennis, billiards, volleyball, etc. Free parking will be provided.

For further information contact:

Office of Summer Session  
(201) 527-2163

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# Interession



GRADUATE COURSES AT UNION  
INTERSESSION JUNE 7—25

Courses meet every evening, Monday through Friday. Please check the class time in each course listing.

Early Childhood Education

**E.C. 5250 Science Experience for Teachers of Young Children (3)**  
Understanding the child as an explorer of his limited but expanding environment. Emphasis on the design and presentation of first hand learning experiences in science for the pre-school and primary child.  
sec. no. 9101/Knight/5:00-7:30 p.m.

Educational Arts and Systems

**E.A.S. 5610 Teaching Content Areas in a Bilingual School (3)**  
Study of methods and materials for involving children who do not speak English in the subject content and intellectual processes of social sciences, science, mathematics, art and music.  
Prerequisite or corequisite: a course in teaching English as a second language.  
sec. no. 9104/5:00-7:30 p.m.

Educational Policy Sciences

**E.P.S. 5118 Theory and Practice of Curriculum Development in the Public Schools (3)**  
Approaches and trends. The role and effect of various policy-making, administrative and supervisory personnel on curriculum innovation, change and evaluation.  
sec. no. 9107/5:00-7:30 p.m.

Psychology

**Psy. 5620 Laboratory Training in Human Relations I (3)**  
Experience in small groups designed to: contribute to the student's understanding of himself and his impact on others; increase his understanding of the dynamics of inter-personal interaction in small groups; increase his sensitivity to the feelings and behavior of others in groups; increase his understanding of how large organizations prevent, create or resolve human relations problems.  
sec. no. 9110/Zito/Mon., Tues., & Wed. 5:00-10:10 p.m.  
sec. no. 9111/Bosner/Tues., Wed. & Thurs. 5:00-10:10 p.m.

Special Education

**Sp. Ed. 5010 Psychology of the Handicapped (3)**  
The psychology of all types of exceptionality, mental, physical, emotional and social. All deviances, their etiologies, treatment and educational strategies. The psychological implications of these deviations and the role of the special education teacher in helping the individual.  
sec. no. 9115/Gaza/7:40-10:10 p.m.

**Sp. Ed. 5115 Materials, Programs and Methods for Teaching the Mentally Retarded (3)**  
The nature and needs of the mentally retarded and the goals of the curriculum for such children applied to classroom procedures and practices. Classroom management, record keeping and the role of academics in such a program. Development and utilization of suitable curriculum materials. Students required to observe and participate in programs for the education of the mentally retarded.  
sec. no. 9118/Frankel/5:00-7:30 p.m.

Student Personnel Services

**S.P.S. 5920 Vocational Guidance (3)**  
Knowledge of educational and vocational opportunities essential for the guidance counselor to operate a successful guidance program. Evaluation, classification and use of materials; field trips to industries and agencies in the community; organization of vocational guidance programs. Particular emphasis on the relationship between personality, psycho-socio-economic factors and educational and vocational choice.  
sec. no. 9121/Bachkai/5:00-7:30 p.m.

UNDERGRADUATE COURSES AT UNION  
INTERSESSION JUNE 7—JUNE 25

Courses meet every evening, Monday through Friday. Please check the class time in each course listing.

**C.S. 3400 The Teaching of Reading in the Elementary School (3)**  
A detailed study of a productive reading program from its beginning through the eighth grade. Emphasis is on materials, methods, research results and modern trends.  
sec. no. 9150/7:40-10:10 p.m.

**C.S. 4400 Advanced Reading Techniques (3)**  
Designed to study in depth current methods and materials for the teaching of reading. Background of knowledge about the total field of reading is broadened. Learning to read, assessment of reading progress and reading in the content areas are studied. Emphasis is placed on corrective techniques in practical classroom application.  
Prerequisite: C.S. 3400.  
sec. no. 9152/7:40-10:10 p.m.

**C.S. 4700 Audio-Visual Media of Instruction (3)**  
General principles, problems and practices involved in the selection, utilization and evaluation of audio-visual instructional media, materials, resources and experiences. The preparation of teacher-made and student-made audio-visual instructional materials. Practice in the operation and general care of audio-visual instructional materials. Practice in the operation and general care of audio-visual equipment. Exposure to newer technologies and learning systems.  
sec. no. 9154/5:00-7:30 p.m.

**E.S. 1100 Introduction to Astronomy (4)**  
A study of heavenly bodies, solar systems and the sidereal universe, with emphasis on the nature of astronomical investigation.  
sec. no. 9202/Kelch/5:45-9:25 p.m.

**E.S. 1200 Introduction to Geology (4)**  
A study of the processes at work upon and within the earth in terms of their impact upon the preservation of the record of the history of the earth. Credit for graduation will not be granted for both Geog. 2010 and E.S. 1200.  
sec. no. 9204/Rockman/5:45-9:25 p.m.

**Econ. 1020 Principles of Economics I (3)**  
The American economy; aggregate economics with emphasis on the relationships of income, consumption, savings and investment; money and banking, economic growth and the role of government.  
sec. no. 9180/Lago-Touron/5:00-7:30 p.m.  
sec. no. 9181/Schumacher/7:40-10:10 p.m.

**Econ. 3300 Money and Banking (3)**  
The nature and function of money, operations of banks, the Federal Reserve System and the Treasury. Income and monetary theory and its applications to achieve stability, employment and growth.  
Prerequisites: Econ. 1020-1021 or consent of instructor.  
sec. no. 9183/Finch/5:00-7:30 p.m.

**Econ. 3800 Labor Economics I (3)**  
Economic analysis applied to the labor market and wage structure; wage theories and policies; collective bargaining and unionism; labor problems.  
Prerequisites: Econ. 1020 and 1021.  
sec. no. 9185/Kim/7:40-10:10 p.m.

Communication Sciences

Earth and Planetary Environments

Economics



Early Childhood Education	<p><b>E.C. 4100 Creative Techniques for Language Development in Early Childhood (3)</b> Understanding and practice in the use of creative techniques focused on oral language development. Includes story-telling, role-playing as a problem-solving technique, movement as a means of learning, choral reading and improvisation based upon children's feelings and experiences. Open only to Early Childhood seniors. sec. no. 9172/5:00-7:30 p.m.</p>	<p><b>Eng. 3350 Contemporary Literature (3)</b> American, English and European literature of the twentieth century. sec. no. 9192/5:00-7:30 p.m.</p>	English
Educational Arts and Systems	<p><b>E.A.S. 3100 Elementary Curriculum and Methodology (3)</b> Elementary school objectives, practices, curriculum patterns and planning techniques. Kean College elementary education majors should see E.A.S. department advisor before registration. sec. no. 9160/5:00-7:30 p.m.</p> <p><b>E.A.S. 3110 English in the Elementary School (3)</b> Study of the teaching of literature, linguistics, written expression, cursive and manuscript writing, listening and speaking. Kean College elementary education majors should see E.A.S. department advisor before registration. sec. no. 9162/7:40-10:10 p.m.</p> <p><b>E.A.S. 3120 Mathematics in the Elementary School (3)</b> Inquiry into the nature of mathematics and its implications for teaching, the use of visual materials in teaching, learning theories as they pertain to mathematics education and current elementary school mathematics programs. sec. no. 9164/7:40-10:10 p.m.</p> <p><b>E.A.S. 3130 Science in Elementary School (3)</b> A study of science content and teaching methodology including student planning, development and presentation of instructional methods and media. Kean College elementary education majors should see E.A.S. department advisor before registration. sec. no. 9166/5:00-7:30 p.m.</p> <p><b>E.A.S. 3711 Children's Literature in Education (3)</b> A critical study of children's books and their use in elementary and secondary school classrooms. Prerequisite: E.A.S. 3110. sec. no. 9168/5:00-7:30 p.m.</p> <p><b>E.A.S. 4140 Social Studies in the Elementary School (3)</b> Study of the objectives of elementary school social science, planning techniques, teaching materials, innovative programs and evaluation, emphasizing the interdisciplinary approach. sec. no. 9170/7:40-10:10 p.m.</p>	<p><b>Eng. 3507 Contemporary British and American Poetry: 1950 to Present (3)</b> Exploration of significant developments in British and American poetry since 1950. sec. no. 9194/Di Fante/7:40-10:10 p.m.</p> <p><b>F.A. 1000 Introduction to Art (3)</b> Appreciation, analysis and creation in the visual arts. Exploration of materials, tools and processes. Not for fine arts majors. sec. no. 9206/Topper/7:40-10:10 p.m.</p> <p><b>F.A. 3740 Modern Art (3)</b> From Cubism to Abstract Expressionism. A study of important artists, works of art and stylistic movements in Europe and America from 1900 to 1960. sec. no. 9208/Wallach/5:00-7:30 p.m.</p> <p><b>F.A. 3910 Art in Education (3)</b> Understanding the child's natural modes of expression, selection of media to develop this expression, and finding ways of teaching in the elementary school which will increase esthetic awareness, develop skills, enrich experience, and invite expression. Not intended for fine arts majors. sec. no. 9210/Schwartz/5:00-7:30 p.m. sec. no. 9211/Lipscomb/7:40-10:10 p.m.</p> <p><b>F.A. 4000 Independent Study I (3)</b> Independent projects or research in a specific field of interest, by arrangement with a sponsoring professor. Prerequisite: Prior departmental approval. sec. no. 9213/Time to be arranged.</p> <p><b>Geog. 2020 Conservation of Natural Resources (3)</b> A study of relationships among natural resources, technological development, population growth and levels of living as a means of exploring and evaluating the foundations of environmental management and conservation. Prerequisite: Three hours of geography or a science or permission of instructor. sec. no. 9216/Kelland/5:00-7:30 p.m.</p>	Fine Arts
Educational Policy Sciences	<p><b>E.P.S. 2000 Introduction to Education (3)</b> An invitation to students to discuss the nature, aims and methods of education particularly in the light of their own school and social experience. Emphasis throughout on the major problems and opportunities of the present and future. Every effort made to involve participants actively, in class and out, in the theory and practice of education. sec. no. 9200/Healy/5:00-7:30 p.m.</p>	<p><b>H.Ed. 1400 Human Sexuality (2)</b> An overview of sex and sexuality in today's society, with implications for evolving male-female relationship, dating patterns, marriage and responsible parenthood. sec. no. 9220/7:40-9:20 p.m.</p> <p><b>H.Ed. 2231 First Aid and Accident Prevention (2)</b> An investigation of accident prevention plus the theory and practice of first aid and personal safety, including cardio pulmonary resuscitation, as recommended by the American Red Cross. At the successful completion of this course, the student receives a Red Cross standard first aid and personal safety certificate. sec. no. 9222/7:40-9:20 p.m.</p>	Geography
Educational Psychology	<p><b>Ed. Psy. 3801 Educational Psychology (3)</b> An analysis of learning theory and its application. Considers cognition, motivation, tests and measurements. sec. no. 9187/Hart/7:40-10:10 p.m.</p> <p><b>Eng. 3105 Language, Meaning and Human Behavior (3)</b> Theories of meaning and behavioral consequences of language. sec. no. 9190/Hacke/5:00-7:30 p.m.</p>	<p><b>H.Ed. 3506 Health Education in the Elementary School (1.5)</b> An examination of health services, school health environment, and the school health curriculum at the elementary school level. Special attention will be paid to the role of the elementary school teacher as a health educator. sec. no. 9223/5:00-7:30 p.m./June 16-June 25</p> <p><b>H.Ed. 3537 School and Community Health Program (2)</b> The school and community health program; the teacher's role in school and community health services, healthful school environment, health instruction in elementary school. sec. no. 9224/5:50-7:30 p.m.</p>	Health Education



	<p><b>H.Ed. 4434 Sex Education (3)</b> Designed to prepare teachers of human sexuality for both elementary and secondary school levels. Attention given to teaching techniques, curriculum design and program implementation. Prerequisite: H.Ed. 1400. sec. no. 9226/7:40-10:10 p.m.</p>	
History	<p><b>Hist. 1040 History of Western Civilization II (3)</b> A survey of the historical development of modern civilization from the mid-17th century to the present. Special attention given to cultural diffusion and integration, to institutions and ideas. sec. no. 9231/Higgins/7:40-10:10 p.m.</p> <p><b>Hist. 2472 History of Far Eastern Civilization II: The 19th and 20th Centuries (3)</b> An examination of the impact of the Western world on the traditional cultures of China, Japan and Korea; their different reactions to the Western challenge, the causes of tension and conflict. Continuous use of significant Far Eastern source materials in suitable English translations. sec. no. 9233/Didsbury/5:00-7:30 p.m.</p> <p><b>Hist. 4234 Revolutionary and Soviet Russia (3)</b> Modernization and revolution in modern Russia from the first liberal reforms of Alexander II to the contemporary developments in the U.S.S.R. Russia's participation in the critical moments of the last century; the industrial revolutions, world wars, and the continuing ideological struggle between varying forms of liberalism and communism. The problems of continuity and change in modern Russia since 1917 highlighted by readings and discussions. Prerequisite: Six hours of history. sec. no. 9235/Siegel/5:00-7:30 p.m.</p>	
Industrial Studies	<p><b>I.S. 2401 Welding Technology (3)</b> Development of basic welding skills and safe and intelligent operation of welding equipment. Successful completion provides opportunity for teacher certificate in areas of oxy-acetylene and electric arc welding. On campus and at Union County Technical Institute. sec. no. 9239/5:00-10:00 p.m.</p> <p><b>I.S. 3303 Carpentry and Building Construction (3)</b> Tools, materials and methods used in the construction of wood frame buildings to include framing, estimating and techniques employed in construction. sec. no. 9241/5:00-8:40 p.m.</p>	
Management Science	<p><b>Mgt. Sci. 3030 Personnel Management (3)</b> Personnel recruitment, development, utilization and accommodation within the organization studied within the analytical framework of the behavioral sciences. Effective personnel policies and procedures emphasized with respect to the goals of the organization and the objectives of the organization's members. Credit cannot be granted for Mgt. Sci. 3030 and Psy. 4420 Industrial Psychology. sec. no. 9251/Schwartz/7:40-10:10 p.m.</p> <p><b>Mgt. Sci. 3130 Forecasting Techniques in Business and Economics (3)</b> Methods of identifying, determining and analyzing economic and business trends in order to forecast future behaviors. Topics include time-series analysis, cross-sectional analysis and applications of regression methods. Prerequisite: Mgt. Sci. 2110 and 2120 or permission of instructor. sec. no. 9253/Fulop/5:00-7:30 p.m.</p>	
	<p><b>Math. 1011 Number Theory in Elementary Mathematics (3)</b> The study of the properties of prime numbers has intrigued professional as well as amateur mathematicians. Many of these ideas about prime numbers can be used in developing interest and creativity in elementary school mathematics. Other topics include: Figurate numbers, composite numbers, factorization methods, modular arithmetic, Euler's function. For non-mathematics majors. sec. no. 9247/7:40-10:10 p.m.</p> <p><b>Math. 1016 Statistics (3)</b> Graphic treatment of data; mean, median, mode; variance, standard deviation, and correlation. Non-parametric techniques such as chi-square and rho are included. sec. no. 9249/5:00-7:30 p.m.</p> <p><b>Mus. 1000 Music Survey (3)</b> Understanding of music through study of music elements, forms, terms, styles, composers, and representative compositions in class, outside listening and music performance attendance. No prerequisites. sec. no. 9260/Cullen/7:40-10:10 p.m.</p> <p><b>Mus. 1050 Music Fundamentals (3)</b> Introduction to rudiments of music and notation. Developing understanding of the music language and facility in music reading and aural perception, through class and individual vocal and instrumental practice and written work. This course is designed as preparation for Mus. 2305, 2310, music education courses required of early childhood and elementary education majors. sec. no. 9262/Herron/7:40-10:10 p.m.</p> <p><b>Mus. 2305 Early Childhood Music Education (2)</b> Music activities and materials for nursery school, kindergarten, and primary grades. Direct participation in singing and rhythmic activities, playing and reading music with simple melody instruments, use of the autoharp, rhythm instruments and recordings. Prerequisite: Mus. 1050 or permission of the instructor. sec. no. 9264/A. Brown/7:40-9:20 p.m.</p> <p><b>Mus. 2310 Elementary School Music Education (2)</b> Music activities and materials for children in the elementary grades. Direct participation in singing and rhythmic activities, playing and reading music with simple melody instruments, use of the autoharp, rhythm instruments and recordings, use and evaluation of books and materials for music education on the elementary and grade school level. Prerequisite: Mus. 1050 or permission of the instructor. sec. no. 9266/A. Brown/5:50-7:30 p.m.</p> <p><b>Phil. 1040 Philosophy (3)</b> A general introduction to the ideas of great philosophers, major schools of thought, and basic issues. Among the topics considered are the meaning of philosophy, reality, knowledge, values and social philosophy. sec. no. 9270/Pezzolo/7:40-10:10 p.m.</p> <p><b>Phil. 2220 Readings in Ethics (3)</b> A study of representatives of major efforts to establish a rational basis for ethical standards and the relevance of their ideas to contemporary controversy concerning traditional moral values. Prerequisite: Three semester hours in philosophy or permission of instructor. sec. no. 9272/Pashman/5:00-7:30 p.m.</p>	<p>Mathematics</p> <p>Music</p> <p>Philosophy</p>



Physical Education	<b>P.Ed. 1040 (1412) Golf I (1)</b> This course provides a level of personal competency in the motor skills necessary to successfully participate in playing the game of golf. sec. no. 9280/5:50-7:30 p.m.
	<b>P.Ed. 1041 (1413) Golf II (1)</b> Opportunity to develop skills of an intermediate and advanced level for play at any course. Prerequisite: P.Ed. 1040 or permission of instructor. sec. no. 9282/5:50-7:30 p.m.
	<b>P.Ed. 3510 (3578) Physiology of Exercise (3)</b> The structure and function of skeletal muscles, energy sources, and oxygen requirements for muscular activity. Two lectures and one laboratory per week. Prerequisite: Bio. 2402 or permission of curriculum chairperson. sec. no. 9284/7:40-10:10 p.m.
	<b>P.Ed. 3605 Physical Education in the Elementary School (1.5)</b> The principles, philosophy, objectives and specifics of practice in physical education for effective work with school children. Units of work on the various levels planned, yearly programs developed and activities applicable to all levels taught and analyzed. sec. no. 9286/5:00-7:30 p.m./June 7-June 16
	<b>P.Ed. 4610 (4554) Organization, Administration and Supervision of Health and Physical Education (3)</b> Facilities, equipment and personnel involved in programs in physical education and health education. Types of organization and problems in administration and supervision. Prerequisites: H.Ed. 3233 and P.Ed. 3611. sec. no. 9288/5:00-7:30 p.m.
Political Science	<b>Pol. Sci. 3300 Comparative Government (3)</b> The comparative study of political institutions in such countries as the USSR, Great Britain, France and West Germany. Prerequisite: Six hours of political science or permission of instructor. sec. no. 9290/Shenis/7:40-10:10 p.m.
Psychology	<b>Psy. 2100 Child Psychology (3)</b> The physical, intellectual, emotional, and social aspects of childhood, including individual differences, the behavior characteristics of various age levels, and the types and methods of adjustment. Prerequisite: Psy. 1000. sec. no. 9292/5:00-7:30 p.m. sec. no. 9293/7:40-10:10 p.m.
	<b>Psy. 2110 Psychology of Adolescence (3)</b> An examination of the nature of adolescence, as characterized by the group of developmental problems (biological, psychological, and social in origin), typically occurring during the second decade of life. Prerequisite: Psy. 1000. sec. no. 9295/7:40-10:10 p.m.
	<b>Psy. 3540 Abnormal Psychology (3)</b> Deviant and disordered behavior and experience, its overt manifestations and its underlying psychological, biological, and social meaning. Prerequisite: Psy. 1000. sec. no. 9297/5:00-7:30 p.m. sec. no. 9298/7:40-10:10 p.m.

<b>Psy. 3630 Social Psychology (3)</b> The social influence on individual behavior and experience. How the thoughts, feelings, actions of individuals are influenced by the presence of other persons and by the complex social stimuli which surround them. Prerequisite: Psy. 1000. sec. no. 9300/5:00-7:30 p.m.
<b>Spa. 1102 Elementary Spanish II (3)</b> Designed to enable the student to achieve a ready comprehension of spoken Spanish, an ability to express himself in clear simple sentences, and considerable ease in reading Spanish. Credit given only upon completion of Spa. 1101 and 1102. sec. no. 9302/5:00-7:30 p.m.
<b>Sp. Ed. 2051 Introduction to Education of the Handicapped (3)</b> Early detection and proper care of all disabilities are considered in this course. Etiology, diagnosis and prognosis, different treatments and remedial procedures and their educational implications; basic educational procedures for the various disabilities. Visitations are made to observe programs for the mentally and physically handicapped. sec. no. 9310/Bilowit/5:00-7:30 p.m.
<b>Sp. Ed. 2154 Introduction to Mental Retardation (3)</b> Emphasis placed on physical, emotional and social characteristics of the mentally retarded. Identification, diagnosis and treatment of the mentally retarded included. Each student expected to spend a minimum of 20 hours in observation and participation in a program for the mentally retarded. Prerequisite: Sp. Ed. 2051. sec. no. 9312/Barnhart/5:00-7:30 p.m.
<b>Sp. Ed. 2251 Speech Correction (3)</b> An orientation course for all classroom teachers and the basic course for speech and hearing majors. It presents an introduction to the field of speech pathology with emphasis on the recognition and treatment of speech disorders in school children. sec. no. 9314/Schulman/5:00-7:30 p.m.
<b>Sp. Ed. 3252 Teaching Language to the Deaf and Hard of Hearing (3)</b> A review of auditory cognition and language development. Principles and methods of teaching language to persons having communication disorders and auditory deficits. This course meets requirements for certification in the area of teaching the deaf and hard of hearing, and is of particular value to teachers of the mentally retarded who have faulty language development. sec. no. 9316/Van Atta/5:00-7:30 p.m.
<b>S.T.M. 1900 Speech (3)</b> Various aspects of speaking and listening; the development of effective voice and speech habits, with practice in public speaking, parliamentary procedure and oral reading. sec. no. 9320/Teran/5:00-7:30 p.m. sec. no. 9321/Harper/7:40-10:10 p.m.
<b>S.T.M. 2915 Group Discussion (3)</b> An analysis of the theory and process involved in group problem solving. Prerequisite: S.T.M. 1900. sec. no. 9323/Remmers/7:40-10:10 p.m.
<b>S.T.M. 2920 Introduction to the Theatre (3)</b> A basic survey of the art and craft of the theatre. sec. no. 9325/Fry/5:00-7:30 p.m.

Spanish

Special Education

Speech/Theatre/Media





# Summer Session



GRADUATE COURSES AT UNION  
SUMMER SESSION JUNE 28-AUGUST 5

Unless otherwise noted, daytime courses meet each day, Monday through Thursday.

†Indicates courses which run for the first three weeks of summer session, June 28-July 15.

‡Indicates courses which run the second three weeks of summer session, July 19 to August 5.

\* Indicates evening courses which meet Monday, Tuesday and Thursday.

Please check all course listings for class time and for special information.

Communication Sciences

**C.S. 5410 Developmental Techniques in the Teaching of Reading (3)**

A study of the nature of reading and of new and promising methods and materials of instruction. Emphasis on enlarging background experiences and vocabulary knowledge; building word analysis and perceptual techniques; meeting individual reading needs; studying reading difficulty, its prevention and remediation within the elementary classroom.

sec. no. 1001/Mazurkiewicz/8:30-10:05 a.m.

**C.S. 5412 Reading Disabilities (3)**

A consideration of the neurological, physical, mental and emotional aspects of the child which may impede learning. Attention is focused on understanding and interpreting standardized tests and testing instruments, their validity and reliability, and on classroom diagnosis and remediation of specific reading disabilities.

sec. no. 1003/Walter/8:30-10:05 a.m.

**C.S. 5460 Administration and Supervision of Reading Programs (3)**

The role of the administrator and reading specialist in reading programs. Programs designed to achieve different purposes: supervision of classroom teaching; creation of new developmental programs; parental and public relations. Reorganization of current programs. Survey of needs for program planning.

sec. no. 1005/Mazurkiewicz/10:15-11:50 a.m.

**C.S. 5600 Remediation of Basic Skills (3)**

Designed to increase the effectiveness in the teaching of basic skills to children requiring remedial assistance. Emphasis on informal diagnosis, followed by remediation of the various skills.

sec. no. 1009/Walter/10:15-11:50 a.m.

**I.D. 5600 Workshop in Creative Preparation of Instructional Materials (3)**

(see Graduate Workshops, page 25.)

Early Childhood Education

**E.C. 5220 Building Readiness for Learning in the Primary Grades (3)**

Curricular problems related to readiness for learning and possible solutions: recognizing and evaluating the readiness of children; promoting understandings, skills and attitudes in the language arts, numerical communication, social and natural sciences and aesthetic experiences. Emphasis on the teacher as change agent in the classroom.

sec. no. 1025/M. Fischel/8:30-10:05 a.m.

**E.C. 5270 Guiding Teachers to Work in Pre-Kindergarten through Grade 3 with Culturally Disadvantaged Children (3)**

Purpose is to recognize problems and concerns of teachers in pre-primary and primary grades in urban settings and to find innovative successful techniques and materials for dealing with them.

sec. no. 1027/Bryant/10:15-11:50 a.m.

**E.A.S. 5100 Advanced Elementary School Curriculum (3)**

Study of factors influencing elementary curriculum development, of current trends in elementary curriculum and of procedures for initiating curriculum change.

sec. no. 1012/8:30-10:05 a.m.

**E.A.S. 5140 The Literature of Children and Youth (3)**

A survey of traditional and modern stories, poems, plays and informational materials for children and youth. Methods of helping children and youth to use and enjoy literature.

sec. no. 1015/10:15-11:50 a.m.

**E.A.S. 5830 (E.P.S. 5140) Instructional Theory and Curriculum Application (3)**

Critical examination of theories of instruction, models and conceptual structures underlying present day practices in teaching in schools and other institutions in our society. Emphasis on keeping current practices congruent with current research and knowledge about teaching—learning relationships that help individuals realize their full human potential, physiologically, emotionally, intellectually and creatively. Meets requirements for secondary certification and Administration and Supervision.

sec. no. 1017/Lorusso/10:15-11:50 a.m.

**What's Happening in Elementary Teaching: A Summer Teach-In**

(see Graduate Workshops, page 22.)

**I.D. 5600 Metrication Workshop for Classroom Teachers (3)**

A "hands on" workshop involving experiences which will enable participants to use the SI metric system of measurement as a part of the regular educational program and in everyday life.

‡sec. no. 3036/12 noon-3:20 p.m.

**E.P.S. 5000 Foundations of Graduate Study in Education (3)**

An interdisciplinary approach to the study of education in contemporary society. Basic readings selected from the various disciplines used to gain insight into selected problems involving relationships of the human being with educational institutions and contemporary society.

sec. no. 1038/Lorusso/8:30-10:05 a.m.

sec. no. 1039/Tehie/10:15-11:50 a.m.

\* sec. no. 1040/Welch/5:45-7:50 p.m.

**E.P.S. 5105 Introduction to Organizational Theory (3)**

History, development and significance of organizational theory. Study of the major theories of bureaucracy, leadership, decision-making, group dynamics, compliance, authority, power, conflict and social systems theory. Analysis of scientific-management, interpersonal relations, transactional models and their relationship to organization of educational agencies.

sec. no. 1042/8:30-10:05 a.m.

**E.P.S. 5110 Organization and Administration of Public Schools (3)**

Problems of organization and administration of today's public schools. Modern leadership techniques explored and applied to the administration of schools at all levels, in all socio-economic environments.

sec. no. 1044/8:30-10:05 a.m.

Educational Arts and Systems

Educational Policy Sciences



**E.P.S. 5117 Supervision of Instruction: Theory and Practice (3)**

Overview of the development, purpose and organization of supervisory programs. Special emphasis on theory and practice of educational leadership as it applies to current in-service educational problems.

sec. no. 1046/8:30-10:05 a.m.

sec. no. 1047/Hancock/12:00-1:35 p.m.

\* sec. no. 1048/McCarthy/5:45-7:50 p.m.

**E.P.S. 5118 Theory and Practice of Curriculum Development in the Public Schools (3)**

Approaches and trends. The role and effect of various policy-making, administrative and supervisory personnel on curriculum innovation, change and evaluation.

sec. no. 1051/10:15-11:50 a.m.

\* sec. no. 1052/5:45-7:50 p.m.

**E.P.S. 5120 Studies of Community and Organizational Change (3)**

The acquisition of values, theories, understandings and skills involved in school and community interrelationships, social and educational change. Community analysis, educational policy formulation and other change factors, as well as instruments of school-community communications.

Prerequisites: One course in organizational theory.

sec. no. 1054/Granger/10:15-11:50 a.m.

**E.P.S. 5130 Legal and Policy Aspects of School Administration and Supervision (3)**

Study of the organization, content, and use of constitutional and statutory provisions pertaining to education. Analysis of legal decisions affecting educational organizations especially as they influence the practices of administrators, supervisors, teachers, and as they affect policy decisions of boards of education. Although the legal principles enunciated will be generally applicable to education throughout the United States, some particular emphasis will be directed to education practice in New Jersey.

Prerequisites: Open only to matriculated students and to certification students.

sec. no. 1056/Muniz/10:15-11:50 a.m.

sec. no. 1058/Muniz/12:00-1:35 p.m.

**E.P.S. 5135 Management of Educational Finances and Resources (3)**

Investigates the economics and financial structures of public education in America and in New Jersey. Analysis of funding theories and statutes and budgetary procedures, (PPBES) Planning, Programming, Budgeting, Evaluation Systems. Income and cost forecasting, facility planning, PERT/CPM and other educational operations research techniques.

Prerequisites: One course in organizational theory.

sec. no. 1060/Granger/8:30-10:05 a.m.

**E.P.S. 5140 Instructional Theory and Application**

(see E.A.S. 5830. sec. no. 1017/page 43.)

English

**Eng. 5100 New Perspectives of Language Study (3)**

An inductive approach to the study of the English language together with a brief account of the historical antecedents of present day linguistics. Emphasis given to analysis of important grammatical devices based on modern scientific study of language.

sec. no. 1030/Thomason/10:15-11:50 a.m.

**Eng. 5450 Shakespeare, the Man, his Times and his Literature (3)**

A critical study of selected works of Shakespeare. Attention given to the antecedents of Elizabethan drama, the Elizabethan theatre and its conventions and the society and culture for which the plays were produced.

sec. no. 1033/Scotto/12:00-1:35 p.m.

**Eng. 5520 Contemporary Drama (3)**

An historical and critical study of significant theatrical forms of the 20th century and of plays by the major modern dramatists.

sec. no. 1036/Dolkey/8:30-10:05 a.m.

**F.A. 5000 Studies in the Creative Process (3)**

Understanding of the creative process through the study of the generative impulse and the resultant performance of the creative personality. Use made of statements of artists. Insights gained from examination of their work. Formal investigative procedures designed to identify and describe creativity studied.

sec. no. 1062/Wilber/10:15-11:50 a.m.

**F.A. 5010 Interrelatedness of the Arts (3)**

The similarities and differences existing between art forms, visual and non-visual, separated in epoch and geographical location. Also the relatedness of the many art forms growing out of the diverse stimulations of a single cultural setting.

\* sec. no. 1064/Howe/5:45-7:50 p.m.

**F.A. 5220 Printmaking (3)**

Standard methods of printmaking: intaglio, relief, planographic and stencil. Emphasis upon innovation and combination of methods. Aesthetic considerations relating to printmaking as an art form.

sec. no. 1066/Metzger/Tues. & Thurs. 8:30 a.m.-12:00 noon

**F.A. 5400 Ceramics (3)**

Hand building and the potter's wheel. Kiln stacking and firing of electric, gas and woodfired kilns. Compounding glazes and development of glaze experiments. Earthenware and stoneware.

sec. no. 1068/Buncamper/Tues. & Thurs. 8:30-12:00 noon

**F.A. 5420 Textiles (3)**

Development of both designing ability in woven, dyed, printed and decorative fabrics and awareness of aesthetic and structural qualities of old and contemporary textiles. Use of two, four and eight-harness looms, investigation and use of natural and commercial dyes, characteristics of natural and synthetic fibers.

sec. no. 1070/Skarsten/Mon. & Wed. 8:30 a.m.-12:00 noon

**F.A. 5430 Metals (3)**

Design and production of forms in metal; raising, fabricating, forging, bending, casting, decorative techniques including enameling, chasing, etching, engraving.

sec. no. 1071/Goodwin/Mon. & Wed. 8:30 a.m.-12:00 noon

**Hist. 5340 Recent American History (3)**

An analysis of the political, diplomatic, economic and cultural course of American history since World War I, with particular attention to the interrelationships of events and ideas.

sec. no. 1073/Mayer/10:15-11:50 a.m.

**Hist. 5360 Workshop in Bicentennial History: Perspectives on the Revolutionary Era (6)**

(see Graduate Workshops, page 21.)

**I.D. 5185 Seminar in Problems of Contemporary Civilization (3)**

Identification and analysis of the critical issues facing contemporary civilization with special reference to cultural, educational and technological developments in Britain of particular significance to American education.

sec. no. 1076/Tehie 12:00-1:35 p.m.

Fine Arts

History

Interdisciplinary Courses



**I.D. 5600 Teaching English to Non-Native Speakers (3)**  
Principles and techniques of teaching English as a second language. Ethnic and linguistic backgrounds of children from other cultures.  
\* sec. no. 1078/8:00-10:05 p.m.

**I.D. 5600 Language and Culture of the Bilingual Child (3)**  
An in-depth study of the background, cultural heritage and experiences that the bilingual-bicultural child brings to the school experience. A sociolinguistic study of his language, with particular attention given to idiomatic expressions and the social implications of certain words to the Spanish native, as well as a comparative linguistic study designed to make the bilingual teacher aware of structural differences and different speech patterns between English and Spanish.  
\* sec. no. 1080/5:45-7:50 p.m.

**I.D. 5600 Bilingual/Bicultural Education in American Schools (3)**  
Study and analysis of the objectives of bilingual/bicultural education, and the role of the teacher in a bilingual/bicultural program, as well as an examination of alternative methods, materials and existing programs in bilingual/bicultural education.  
\* sec. no. 1082/8:00-10:05 p.m.

**I.D. 5911 Contemporary Issues— Games and Simulations— An Alternate Approach to Teaching History (3)**  
The format of this course will consist of various simulations and games in which the student will learn historical concepts by experiencing them rather than by reading about them. Some time will be spent discussing the theoretical justification of this approach.  
sec. no. 1085/Mayer/12:00-1:35 p.m.

Mathematics **Math. 5210 Theory of Sets (3)**  
Study of set algebra, relations, mapping, ordered sets, well ordering. Peano axioms for natural numbers, transfinite induction, cardinal numbers, ordinal numbers, choice function, Zorn's lemma, transfinite arithmetic.  
Prerequisite: Math. 2412 Calculus II  
sec. no. 1090/Pollack/10:15-11:50 a.m.

**Math. 5400 Advanced Calculus (3)**  
Continuity; integration; convergence; differentiation; differential geometry and vector calculus; complex analysis.  
Prerequisite: 6 hours of calculus.  
sec. no. 1092/Deavours/8:30-10:05 a.m.

Music **Mus. 5122 Advanced Choral Conducting (3)**  
A detailed applied study of advanced choral conducting techniques, utilizing varied literature from all periods, for voices alone or with instruments.  
Prerequisite: Mus. 3122 Conducting II or consent of department chairperson.  
\* sec. no. 1094/J. Cullen/5:45-7:50 p.m.

Philosophy **Phil. 5020 The Philosophy of Humanism (3)**  
An investigation of humanism as one of the alternative dedications of Western Civilization beginning with the history of the growth of humanistic and secular concerns and moving into an examination of the philosophic bases of this position.  
\* sec. no. 1098/Pezzolo/5:45-7:50 p.m.

Political Science **Pol. Sci. 5020 Contemporary Political Problems (3)**  
An analysis of the major American political problems and issues.  
\* sec. no. 1099/Kelly/5:45-7:50 p.m.

**Pol. Sci. 5145 Nominating the President (3)**

A first hand look at a Presidential Nominating Convention. The class will attend sessions of the Democratic National Convention in New York, including committee hearings the preceding week, caucuses, and the open convention itself, pending arrangements. Class discussion topics will include recruitment, primaries, and pre-convention strategies. Students will be responsible for travel to New York City.  
Prerequisites: Permission of Instructor.  
sec. no. 1100/Israel/12:00-1:35 p.m.

**Psy. 5110 The Developmental Study of Children (3)**

Advanced course offering a critical analysis of an investigation into the nature of human development. Designed to develop a mature understanding of how to work effectively with children in contemporary society, including its schools. The importance of the development of empathy and empathic relationships.  
sec. no. 1102/Golden/8:30-10:05 a.m.  
sec. no. 1103/Golden/10:15-11:50 a.m.  
\* sec. no. 1104/Braisted/5:45-7:50 p.m.

**Psy. 5120 Social Psychology of Adolescence (3)**

Current issues and related theory and research in the social psychology of adolescence. Personality and cognitive development, the peer group and parent-youth relationships, socio-political action, the disadvantaged youth, the role of the educational institution in adolescent development.  
sec. no. 1106/Harris/8:30-10:05 a.m.

**Psy. 5230 Tests and Measurements (3)**

The principles of measurement underlying test construction and use. The aims of testing, an understanding of basic statistical procedures, problems of test administration, scoring and interpretation and the importance of test reliability, validity, norms and research. The range of tests currently available and the planning of testing programs.  
Prerequisite: Psy. 3200 Psychological Statistics or Math. 5500.  
sec. no. 1108/Mercer/10:15-11:50 a.m.

**Psy. 5320 Learning Theory and Applications (3)**

Major concepts and theories of learning. Interrelation of learning and factors in motivation; underlying learning principles; learning technology and application in educational setting.  
Prerequisite: Psy. 5110 or equivalent.  
\* sec. no. 1110/Youtz/5:45-7:50 p.m.

**Psy. 5510 Theories of Personality (3)**

Various systematized conceptualizations of personality theories. Psychoanalytic theories of personality, field theory, learning theories, phenomenological and existential theories of personality. Each theoretical orientation applies to personality and behavioral assessment in practical living and professional relationships. Not open to students who have completed a basic course in personality theory.  
†sec. no. 1112/R. Roth/12:00-3:20 p.m.  
‡sec. no. 1113/R. Roth/12:00-3:20 p.m.  
\* sec. no. 1114/Hoffnung/5:45-7:50 p.m.

**Psy. 5520 Abnormal Psychology and its Educational Implications (3)**

The symptoms, contributing factors, dynamics and treatment of emotional and behavioral disorganizations considered in terms of their overt manifestations and their underlying psychological, biological and social meaning. Emphasis given to psychosis, neuroses and personality disorders. Not open to students who have completed a basic course in abnormal psychology.  
sec. no. 1117/Angers/8:30-10:05 a.m.  
\* sec. no. 1118/Samenfeld/5:45-7:50 p.m.

Psychology



**Psy. 5540 Problems of Individual Behavior (3)**

The dynamics and problems of individual behavior with emphasis on the approaches used by Freud and Adler. Individual behavior assessed as a dynamic system of inter-related functions with practical applications made through the presentation of case histories.

Prerequisite: Psy. 5510 or 5520 or permission of instructor.  
sec. no. 1120/Angers/10:15-11:50 a.m.

**Psy. 5550 Behavior Disorders of Children (3)**

Major topics and issues related to child pathology. Behavior disorders viewed as reactive, organic or a combination of the two. Etiology, symptoms and prognosis studied from the point of view of psychoanalytic interpretation with supplementary contributions from learning theory and theories stressing possible constitutional components in each disorder.

Prerequisites: Psy. 5110 and Psy. 5520 or permission of instructor.  
sec. no. 1122/Scire/8:30-10:05 a.m.

**Psy. 5870 Psychological Clinical Case Studies — Practicum (3)**

The advanced student in school psychology has an opportunity to make clinical case studies under supervision. He is guided in an appropriate selection of tests. He writes the clinical report, taking into account reports of other specialists. He makes educational and referral recommendations. The student attends case conference with other professionals and gains competence in providing the psychological contribution to the case study.

Prerequisites: Psy. 5550, 5840 and approval of school psychology coordinator.  
sec. no. 1124/Scire/10:15 a.m.-2:15 p.m.

Sociology

**Soc. 5150 The Sociology of Community (3)**

The nature of the community as a pattern of social relations, its functions and the changing structure of the community in modern times. Individual research and reading directed to a close examination of rural, urban, suburban and metropolitan types of community adaptation.

Prerequisite: Soc. 5000.

\* sec. no. 1127/Mayo/5:45-7:50 p.m.

Special Education

**Sp. Ed. 5000 Physiological Bases of Learning (3)**

Comprehensive study of the central nervous system, both basic and applied. Basic elements of various appropriate disciplines integrated, providing insight into the bases of learning and disorders of learning.

sec. no. 1130/Gaza/10:15-11:50 a.m.

**Sp. Ed. 5010 Psychology of the Handicapped (3)**

The psychology of all types of exceptionality, mental, physical, emotional and social. All deviances, their etiologies, treatment and educational strategies. The psychological implications of these deviations and the role of the special education teacher in helping the individual.

sec. no. 1132/Shulman/8:30-10:05 a.m.

**Sp. Ed. 5050 Psychological Testing (3)**

Investigation of the theoretical basis underlying clinical tests of intellectual ability, aptitudes and adjustments. Current trends in psychological testing examined and evaluated against a background of historical developments in this field. Emphasis on educational implications of various test protocols. Opportunities provided for observation of test procedures and practices in administration of those clinical tests most frequently employed in an educational environment.

sec. no. 1134/Gaza/12:00-1:35 p.m.

**Sp. Ed. 5110 Principles and Practices of Curriculum Development for Teachers of the Mentally Retarded (3)**

Current trends in curriculum development for the mentally retarded reviewed and evaluated in light of research dealing with the needs and characteristics of such children at different maturation levels. Principles of curriculum development applied to the building of a functional curriculum.

sec. no. 1136/Frankel/10:15-11:50 a.m.

**Sp. Ed. 5115 Materials, Programs and Methods for Teaching the Mentally Retarded (3)**

The nature and needs of the mentally retarded and the goals of the curriculum for such children applied to classroom procedures and practices. Classroom management, record keeping and the role of academics in such a program. Development and utilization of suitable curriculum materials. Students required to observe and participate in programs for the education of the mentally retarded.

sec. no. 1138/Frankel/12:00-1:35 p.m.

**Sp. Ed. 5120 Arts, Crafts and Developmental Activities for the Retarded (3)**

The role of arts and crafts in a program for the retarded. Emphasis on development of sequential activities commensurate with the abilities of the children.

sec. no. 1140/12:00-1:35 p.m.

**Sp. Ed. 5215 Auditory Training (3)**

Special emphasis on present theories, techniques and methods. Demonstrations given to show the procedures in developing auditory discrimination in the aurally handicapped to the fullest extent of their residual hearing. Each member of the class will participate in two demonstration lessons.

\*†sec. no. 1142/Terr/Thur. & Fri. 5:45-10:00 p.m. and Sat. 9:00 a.m.-12:00 noon

**Sp. Ed. 5227 Advanced Clinical Practice in Speech Pathology I (2)**

Demonstration and practice with different types of speech handicapped persons in diagnosis, referral to other specialists and treatment procedures. Designed especially to give the student an opportunity to meet state and ASHA certification requirements in the area of supervised clinical practicum. 5227-5228 must be taken concurrently.

Prerequisites: Sp. Ed. 3256 or 3257 Speech Pathology I or II or Sp. Ed. 4260 Speech Pathology and permission of instructor prior to registration.

sec. no. 1144/Heller/9:00 a.m.-2:30 p.m., Tues. and Thurs.

**Sp. Ed. 5228 Advanced Clinical Practice in Speech Pathology II (2)**

Taken concurrently with 5227.

sec. no. 1145/Heller/9:00 a.m.-2:30 p.m., Tues. and Thurs.

**Sp. Ed. 5232 Neuro-Physiology of the Ear and Speech Mechanism (3)**

For advanced students in speech and hearing therapy. Demonstrates basic concepts of neuro-physiology and neuro-pathology and their clinical application. The origins, growth, development, and integration of the various neurological mechanisms related to speech and hearing discussed and illustrated by slides and films. The correlation of structure and function in speech and hearing and the relationship with brain mechanisms studied.

Prerequisite: Sp. Ed. 4258 Speech and Hearing Clinic II.

sec. no. 1148/Shulman/10:15-11:50 a.m.

**Sp. Ed. 5250 Education and Counseling for Parents of Children with Speech Disorders and Other Handicaps (3)**

Problems and practices in understanding and assisting parents of children with speech problems and other types of handicaps. Should be beneficial to speech correction teachers and all teachers who deal with handicapped children.

† sec. no. 1150/Terr/5:45-10:05 p.m., Mon., Tues., Wed.





**Sp. Ed. 5310 Emotionally Disturbed Children in the Classroom (3)**

Interaction between the emotionally disturbed child and the classroom and its environment as a social system. Emphasis on social field theory, communication and the school values and mores as they are experienced by the emotionally disturbed and the classroom teacher.

Prerequisite: Sp. Ed. 2051 Introduction to Education of the Handicapped.

sec. no. 1152/J. Roth/8:30-10:05 a.m.

**Sp. Ed. 5321 Nature and Needs of the Emotionally Disturbed and Socially Maladjusted (3)**

Identification and recognition of maladjusted children in school setting. Their nature and needs.

sec. no. 1154/J. Roth/10:15-11:50 a.m.

**Sp. Ed. 5322 Materials, Programs and Methods for Teaching the Emotionally Disturbed and Socially Maladjusted (3)**

Emphasis on curriculum design, teaching techniques, clinics, programs and materials.

Prerequisite: Sp. Ed. 5321 or equivalent.

sec. no. 1156/Libster/8:30-10:05 a.m.

**Sp. Ed. 5360 Supervised Experience with Emotionally Disturbed and Socially Maladjusted (3)**

Designed to provide understanding of purposes and functions of various community agencies which educate disturbed and maladjusted children. Several such agencies visited. Each student assigned to work in an agency for a minimum of 150 hours in order to understand more thoroughly its approach to the emotionally disturbed and socially maladjusted. Open to matriculated degree students by prearrangement.

sec. no. 1158/Time to be arranged.

**Sp. Ed. 5415 Diagnosis of Learning Disabilities (3)**

An overview of the nature and causes of learning disabilities as they involve intellectual and linguistic competencies, visual and auditory perception, social and physiological function, learning strategies and motivational parameters. Methods and techniques used in the assessment of the above and ways of communicating diagnostic findings.

Prerequisites: Sp. Ed. 2051, 5000 and 5050; Psy. 5320.

sec. no. 1160/Gasorek/8:30-10:05 a.m.

**Sp. Ed. 5010 Psychology of the Handicapped (3)**

The psychology of all types of exceptionality, mental, physical, emotional and social. All deviances, their etiologies, treatment and educational strategies. The psychological implications of these deviations and the role of the special education teacher in helping the individual. *Taught at Woodbridge State School.*

sec. no. 4001/Bilowit/1:35-3:10 p.m.

**S.P.S. 5910 Introduction to Student Personnel Services (3)**

History and development of student personnel services with emphasis on guidance, counseling and school social work. The philosophy of guidance and social work, the methods used. The relationships of the workers with students, parents, other school personnel and the community as they work together toward the goals of education.

\* sec. no. 1163/Presley/5:45-7:50 p.m.

**S.P.S. 5950 Principles and Procedures of Counseling (3)**

Intensive and extensive exposure to various approaches to counseling. In addition to films, tapes, role-playing and class discussions, students will be involved in counseling sessions with actual groups to be selected and established by the student.

Prerequisites: S.P.S. 5910, 5962; Psy. 5320.

sec. no. 1166/McCracken/10:15-11:50 a.m.

**S.P.S. 5962 Group Process in Guidance (3)**

Major emphasis on achieving better understanding of the self, group, its characteristics and components and the relationship of group process to an effective guidance program. May be taken without S.P.S. 5961.

sec. no. 1169/Polisky/1st session Sat. 9:30 a.m.

**S.P.S. 5964 Basic Social Work Concepts and Processes (3)**

Development of understanding of the basic assumptions, support, purpose and methods of social work. The processes of case work, group work and community organization. Importance of prevention as well as treatment of psycho-social problems emphasized. Major orientation that of case work and the practice of school social work.

Prerequisites: S.P.S. 5910 and/or permission of instructor.

\* sec. no. 1172/Ward/5:45-7:50 p.m.

**S.P.S. 5971 Community Organization and Services (3)**

The development of community service agencies to meet community needs and ways of coordinating these services with schools. Current legislation, legal implications; the techniques of community study and program development.

‡sec. no. 1175/Presley/12:00-3:20 p.m.

**S.P.S. 5980 Practicum in Counseling — Guidance or Social Work (3)**

Appropriate supervised field work in a guidance or social work setting.

Prerequisites: S.P.S. 5910, 5950, two other student personnel courses and the permission of the instructor.

sec. no. 1178/Healy/10:15 a.m. 1st session

sec. no. 1179/McCracken/12:00-1:35 p.m.

\* sec. no. 1180/Ward/8:00-10:05 p.m. (School Social Work)

**I.D. 5600 Workshop for the High School/College Counselor in the Admissions Dynamic (3)**

(see Graduate Workshops, page 24.)

**S.P.S. 5971 Community Organization and Services (3)**

The development of community service agencies to meet community needs and ways of coordinating these services with schools. Current legislation, legal implications; the techniques of community study and program development. *Course given at Woodbridge location.*

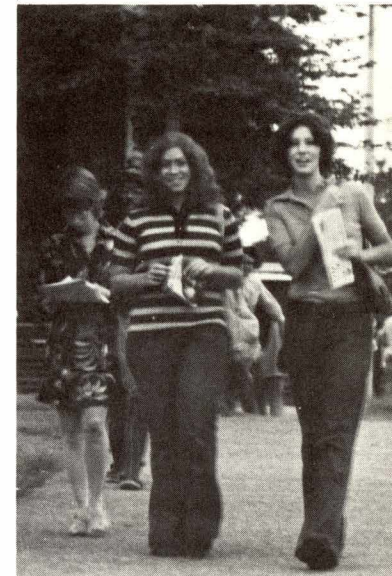
sec. no. 4003/Novick/July 6-29, 9:00 a.m.-4:00 p.m.

**S.P.S. 5975 Career Development: Educational and Occupational Information (3)**

Informational responsibilities of student personnel services. The many facets of guidance as it deals with education, occupations and community resources. Evaluation and organization of informational materials; establishment and maintenance of a guidance library of vocational educational opportunities; identification and cooperation with community agencies and resources, including business and industry; methods of making information available to students to help them in decision making. *Course given at Woodbridge location.*

To be taken concurrently with S.P.S. 5971.

sec. no. 4005/Novick/July 6-29, 9:00 a.m.-4:00 p.m.





## UNDERGRADUATE COURSES AT UNION SUMMER SESSION JUNE 28-AUGUST 5

Unless otherwise noted, daytime courses meet each day, Monday through Thursday.

†Indicates courses which run for the first three weeks of summer session only, June 28-July 15.

‡Indicates courses which run the second three weeks of summer session, July 19-August 5.

\*Indicates evening courses which meet Monday, Tuesday and Thursday.

Please check all course listings for class time and for special information.

Biology

### **Bio. 1000 Principles of Biology (4)**

The course introduces the student to the nature of living forms, their interdependencies, and their adjustments to their physical environment. The fundamentals of structure and function dealt with in such primary processes as respiration, digestion, circulation, excretion, the control systems, reproduction, and heredity and variation of biological form through time.

sec. no. 1301/8:30-11:20 a.m.

sec. no. 1302/8:30-11:20 a.m.

sec. no. 1303/11:30 a.m.-2:20 p.m.

### **Bio. 2001 Social Implications of Biology (3)**

Consideration of the problems generated by the discoveries in biology for man and society; biological factors of race and races and their social implications; problems due to man's persistence in overpopulation. Not open to biology majors for credit.

sec. no. 1306/8:30-10:05 a.m.

sec. no. 1307/10:15-11:50 a.m.

### **Bio. 2200 Cell Biology (4)**

The cell as the unit of structure and function of organisms. Emphasis is placed on molecular organization, form and function of cell organelles and cell specialization.

Prerequisite: Bio. 1000 or permission of the instructor.

\* sec. no. 1309/5:45-9:30 p.m.

sec. no. 1310/Taught in Spanish

sec. no. 1311/Taught in Spanish

### **Bio. 2402 Principles of Human Physiology and Anatomy (4)**

The physiology of the body processes and the related anatomical and histological studies. Consideration is given to the structure and function of the organ systems with emphasis being placed on the physiological processes.

Prerequisite: Bio. 1000 or permission of instructor.

sec. no. 1313/11:30 a.m.-2:20 p.m.

### **Bio. 2500 Principles of Botany (4)**

A study of the structure, metabolism, development, reproduction, and evolution of plants. (3 hr. lec./3 hr. lab.)

Prerequisite: Bio. 1000 or equivalent or permission of the instructor.

sec. no. 1315/8:30-11:20 a.m.

### **Bio. 2601 Environment, Ecology and Man (4)**

A course for nonscience majors describing basic ecological principles such as energy flow, nutrient cycling, limiting factors, population growth and regulation. Emphasis on man's disruptive effects in the environment. Content includes pollution, radiation, pesticides, endangered species and human population pressures.

Prerequisite: Bio. 1000 or permission of instructor.

sec. no. 1317/8:30-11:20 a.m.

### **Bio. 3305 Principles of Microbiology (3)**

A survey of micro-organisms with emphasis on the protozoa, bacteria, algae and fungi of economic importance. Morphology, physiology and methods of culture and identification of common and representative forms are studied as they relate to human welfare.

Prerequisite: Bio. 2200 or permission of the instructor.

sec. no. 1323/8:00-10:05 a.m.

sec. no. 1324/10:15 a.m.-12:20 p.m.

### **Bio. 3704 Principles of Genetics (3)**

The Mendelian principles of heredity and the modern concept of the gene.

Prerequisite: Bio. 3614 or permission of the instructor.

sec. no. 1326/12:00 noon-1:35 p.m.

### **Bio. 2650 Introduction to Marine Plants and Animals (4)**

(see N.J. Marine Sciences Consortium, page 27.)

### **Bio. 3000 Marine Biology (4)**

(see N.J. Marine Sciences Consortium, page 27.)

### **Bio. 4415 Ichthyology (4)**

(see N.J. Marine Sciences Consortium, page 27.)

### **Bio. 4430 Birds of the Seashore (2)**

(see N.J. Marine Sciences Consortium, page 27.)

### **Chem. 1083 Chemistry I (4)**

Meets the general education science requirements. A thorough discussion of the fundamental principles of chemistry such as atomic structure, bonding, solutions, chemical equilibrium, oxidation, reduction, and descriptive chemistry. Mathematical relationships and problem-solving are stressed. It is advisable that the student have competence in elementary algebra. No credit is granted for the course unless Chem. 1084 is also completed.

sec. no. 1332/Rosenkrans/Lab 10:20 a.m.-12:35 p.m. M, T, R;

Lecture 8:30-10:10 a.m.

### **Chem. 1084 Chemistry II (4)**

A continuation of Chem. 1083 which is prerequisite.

sec. no. 1334/Noether/Lab 10:50 a.m.-1:05 p.m. M, T, R; Lecture 9:00-10:40 a.m.

### **Chem. 2180 Principles of Organic Chemistry (4)**

A terminal one semester course dealing with the principles involved in the elucidation of the structure of organic compounds and the nature of the reactions encountered in aliphatic and aromatic chemistry. Examples of the common functional groups. Industrial and medical applications.

Prerequisite: Chem. 1083-1084 or permission of the instructor.

sec. no. 1336/Salisbury/Lab 10:25 a.m.-12:40 p.m. M, T, W;

Lecture 9:00-10:15 a.m. and 12:50-1:50 p.m. M, T, W

### **Chem. 2181 Principles of Organic Chemistry Lecture (3)**

This course duplicates the non-laboratory portion of Chem. 2180 and has the same prerequisites and co-requisites. It is a non-laboratory course and is restricted to non-matriculated students wishing to transfer credits to institutions not requiring the laboratory. Students will meet with Chem. 2180 sections and be responsible for the same examinations and other than laboratory assignments.

sec. no. 1338/Salisbury/9:00-10:15 a.m. and 12:50-1:50 M, T, W

Chemistry



**C.S. 3400 The Teaching of Reading in the Elementary School (3)**

A detailed study of a productive reading program from its beginning through the eighth grade. Emphasis is on materials, methods, research results and modern trends.

sec. no. 1351/Kleederman/8:30-10:05 a.m.

\* sec. no. 1352/Andrews/5:45-7:50 p.m.

**C.S. 4400 Advanced Reading Techniques (3)**

Designed to study in depth current methods and materials for the teaching of reading. Background of knowledge about the total field of reading is broadened. Learning to read, assessment of reading progress and reading in the content areas are studied. Emphasis placed on corrective techniques in practical classroom application.

Prerequisite: C.S. 3400.

sec. no. 1355/Kleederman/10:15-11:50 a.m.

**C.S. 4402 Reading Disabilities (3)**

Adaptation to individual needs is stressed. Attention is focused on the neurological, physical, mental and emotional aspects which may impede learning. Reading problems of individual children are diagnosed and remediated.

Prerequisite: C.S. 4400.

\* sec. no. 1357/Andrews/8:00-10:05 p.m.

**C.S. 4700 Audio-Visual Media of Instruction (3)**

General principles, problems and practices involved in the selection, utilization and evaluation of audio-visual instructional media, materials, resources and experiences. The preparation of teacher-made and student-made audio-visual instruction materials. Practice in the operation and general care of audio-visual equipment. Exposure to newer technologies and learning systems.

sec. no. 1359/O'Meara/8:30-10:05 a.m.

\* sec. no. 1360/Scuderi/5:45-7:50 p.m.

**Comp. Sci. 1931 Computer Arithmetic Algorithms (3)**

Historical development of computers, components of electronic data processing equipment, flow charting, programming, keypunching, and verifying arithmetic algorithms for electronic digital processing, debugging and analysis of results related to processed algorithms. Designed specifically for non-mathematics majors. Laboratory facilities allow for a maximum of 25 students per section.

sec. no. 1340/Garb/8:30-10:05 a.m.

sec. no. 1341/Garb/12:00 noon-1:35 p.m.

**Comp. Sci. 1932 Principles and Procedures of Electronic Data Processing (3)**

Fundamental principles and procedures of electronic data processing include: historical development of electronic machines, punched-card data processing, machine language coding, systems analysis and procedure, flow charts, utilization of coded-data representation for arithmetic and control units, and programming scientific and sequential information for various kinds of electronic machines.

Prerequisite: Comp. Sci. 1931 or 3993.

sec. no. 1343/Arnold/10:15-11:50 a.m.

**Comp. Sci. 2931 Business Oriented Programming Techniques (3)**

Higher level programming languages for commercial application. Emphasis on programming techniques and language structure. Additional topics: systems analysis, design and implementation, program definition, development and documentation. Preparation for participation in the computer science industrial cooperative program.

Prerequisite: Math. 1932 or the equivalent.

sec. no. 1345/Arnold/12:00 noon-1:35 p.m.

**Comp. Sci. 3993 Computer Programming I (3)**

Concepts of functions and algorithms in writing and keypunching programs processed on an electronic digital computer. Flow-charting; single-loop and nested loop processes; arithmetic processed, fixed-point, and floating-point arithmetic and non-numeric values; iteration and approximations; and non-numeric repetitive processes as applied in numerous types of elementary mathematical problems.

Prerequisite: Twelve hours of college mathematics.

sec. no. 1347/Santomauro/8:30-10:05 a.m.

**Comp. Sci. 3994 Computer Programming II (3)**

Double precision, complex, and logical values, predefined and written subroutines, n-dimensional arrays, subprograms, numeric, logical alphanumeric, literal and blank data, mixed mode, indexing, and optimized programs utilized in more intricate mathematical problems.

Prerequisite: Twelve hours of college mathematics. Students must register for both Programming I & II.

sec. no. 1349/Santomauro/10:15-11:50 a.m.

**E.C. 3100 Exploring Books with Young Children (3)**

The different techniques and merits of story-telling put into practice with groups of children. Students learn to evaluate suitability of literature for various age levels. They become familiar with good contemporary authors and illustrators of children's books as well as the historical development of the literature for young children.

sec. no. 1390/Weiland/10:15-11:50 a.m.

**E.C. 3200 Child Development and Early Childhood Curriculum I (6)**

The first part of a 12-semester-hour sequence showing the development of the curriculum for children through the primary grades. New aims, approaches, methods and materials derived from current knowledge and research in child development. The history of curriculum development and recent trends. Study and evaluation of techniques and materials that good teachers use in various activities. Observation and participation in day care centers, nurseries and kindergartens. Special emphasis on the use of art media and other creative materials and on the interrelatedness of home and community.

Prerequisite: Psy. 1000, 2100 or permission of instructor.

sec. no. 1392/8:30-11:50 a.m.

\* sec. no. 1393/Penn/5:45-10:05 p.m.

\* sec. no. 1394/M. Lewis/5:45-10:05 p.m.

**E.C. 4200 Development and the Early Childhood Curriculum II (6)**

Continuation of E.C. 3200. Emphasis on the program for the primary grades to include various curricular approaches used in different school systems; functional learning experiences for children of different ages, maturity levels and abilities; the integration of subject areas-science, social science, mathematics, language arts, crafts, art, music and physical education; understanding of the parents' and child's points of view and the specific techniques and materials for reporting to parents.

Prerequisite: E.C. 3200.

\* sec. no. 1396/Knight/5:45-10:05 p.m.

**E.C. 4210 Guiding Early Childhood Teachers to Work with Children from Minority Cultures (3)**

Designed to help qualify teachers for day-care centers, pre-kindergartens or pre-school programs and primary grades. Emphasis on: the special kind of experiences needed by culturally disadvantaged children from urban core, poverty rural or migrant backgrounds; activities that promote creativity, enrichment and motivation for later academic success; problems of personal identification or self-worth and social adaptability; relationships between parents, school specialists and community workers.

sec. no. 1400/Weiland/12:00 noon-1:35 p.m.



**E.C. 4510 Independent Study in Early Childhood Education (3)**

Designed to extend knowledge, attitudes and skills through individual experience and interpretation in the field of early childhood education. Methods of inquiry examined as a prelude to independent study. Open only to Early Childhood seniors who may select it as an alternate to E.C. 4500. By prior departmental approval.

sec. no. 1402/Dumais

**E.S. 1300 Introduction to Meteorology (4)**

A non-mathematical study of the atmosphere, including meteorological instruments, the general circulation of the atmosphere, fronts and air masses, cyclones, hurricanes, and the upper atmosphere. Atmospheric phenomena discussed in terms of structure and prediction.

\* sec. no. 1501/Zois/5:45-10:05 p.m.

**E.S. 3264 Invertebrate Paleontology (4)**

(see N.J. Marine Science Consortium page 27.)

**E.S. 3453 Introduction to Oceanography (4)**

(see N.J. Marine Science Consortium page 27.)

**E.S. 4454 Marine Geology (4)**

(see N.J. Marine Science Consortium page 27.)

**Econ. 1020 Principles of Economics I (3)**

The American economy; aggregate economics with emphasis on the relationships on income, consumption, savings and investment, money and banking, economic growth and the role of government.

sec. no. 1405/Kim/8:30-10:05 a.m.

\* sec. no. 1406/Finch/8:00-10:05 p.m.

\* sec. no. 6001/Schumacher/5:45-7:50 p.m. first class/external

**Econ. 1021 Principles of Economics II (3)**

The allocation of resources and distribution of income through the price systems with emphasis on the American economic system.

\* sec. no. 6002/Schumacher/8:00-10:05 p.m. first class/external

\* sec. no. 1411/Lago Touron/5:45-7:50 p.m./to be taught in Spanish

**Econ. 3020 Economics of Income and Employment (3)**

An analysis of economic aggregates. Interrelationship between money supply, interest rates, output and employment. Classical, Keynesian, post-Keynesian theories.

Prerequisites: Econ. 1020-1021 or consent of instructor.

\* sec. no. 1413/Reschke/5:45-7:50 p.m.

**Econ. 3021 Intermediate Price Analysis (3)**

Theory of value and distribution. Prices, output and factor proportion problems of firms operating under conditions of competition, monopolistic competition, oligopoly and monopoly.

Prerequisites: Econ. 1020 or 1021 or consent of instructor.

\* sec. no. 1415/Reschke/8:00-10:05 p.m.

**Econ. 3600 Government and Business (3)**

The development of public policies towards business. The principles, purposes and effectiveness of anti-trust laws and other government regulations of business.

Prerequisites: Econ. 1020-1021 or consent of instructor.

\* sec. no. 6007/Finch/5:45-7:50 p.m./external

**Econ. 3801 Labor Economics II**

The economic behavior of employment and earnings; wages and inflation; social security and welfare program; public policy; manpower and human capital formation.

Prerequisites: Econ. 1020, 1021 and/or 3800.

sec. no. 1420/Kim/12:00 noon-1:35 p.m.

**Econ. 4430 Advanced International Monetary Economics (3)**

Analysis of the balance of payments accounts and adjustment policies. Determination of exchange rates, foreign exchange markets and the appropriate use of monetary and fiscal policy for a fixed versus a flexible exchange rate system.

Prerequisites: Econ. 3020 and 3021.

\* sec. no. 1422/Lago Touron/8:00-10:05 p.m.

**E.A.S. 3100 Elementary Curriculum and Methodology (3)**

Elementary school objectives, practices, curriculum patterns and planning techniques. Full time Kean College elementary education majors should see E.A.S. department advisor before registration.

sec. no. 1363/10:15-11:50 a.m.

\* sec. no. 1364/5:45-7:50 p.m.

**E.A.S. 3110 English in the Elementary School (3)**

Study of the teaching of literature, linguistics, written expression, cursive and manuscript writing, listening and speaking. Full time Kean College elementary education majors should see E.A.S. department advisor before registration.

sec. no. 1366/12:00 noon-1:35 p.m.

\* sec. no. 1367/5:45-7:50 p.m.

**E.A.S. 3120 Mathematics in the Elementary School (3)**

Inquiry into the nature of mathematics and its implications for teaching, the use of visual materials in teaching, learning theories as they pertain to mathematics education and current elementary school mathematics programs.

sec. no. 1370/10:15-11:50 a.m.

sec. no. 1371/12:00 noon-1:35 p.m.

\* sec. no. 1372/8:00-10:05 p.m.

**E.A.S. 3130 Science in the Elementary School (3)**

A study of science content and teaching methodology including student planning, development and presentation of instructional methods and media. Full time Kean College elementary education majors should see E.A.S. department advisor before registration.

sec. no. 1375/8:30-10:05 a.m.

sec. no. 1376/10:15-11:50 a.m.

\* sec. no. 1377/8:00-10:05 p.m.

**E.A.S. 3710 Teaching English as a Second Language (3)**

Analysis of the problems involved in English instruction where English is a second language. Ethnic and linguistic backgrounds of children for whom English is a second language. Accepted by the English department as fulfilling the requirement in language for English majors.

\* sec. no. 1380/5:45-7:50 p.m.

**E.A.S. 3741 Teaching Ethnic Studies (3)**

The development of teaching techniques for ethnic studies approaches. The course will also emphasize the preparation of materials to illustrate the experience of ethnic groups and the development of skills in studying and analyzing the ethnic experience in the United States.

sec. no. 1382/12:00 noon-1:35 p.m.



**E.A.S. 4140 Social Studies in the Elementary School (3)**

Study of the objectives of elementary school social science, planning techniques, teaching materials, innovative programs and evaluation, emphasizing the interdisciplinary approach.

sec. no. 1384/10:15-11:50 a.m.

\* sec. no. 1385/8:00-10:05 p.m.

**E.P.S. 2000 Introduction to Education (3)**

An invitation to students to consider the nature, aims, and methods of education particularly in the light of their own school and social experience. Emphasis throughout on the major problems and opportunities of the present and future. Every effort made to involve participants actively, in class and out, in the theory and practice of education.

sec. no. 1485/Willis/12:00 noon-1:35 p.m.

**E.P.S. 4010 History of Education (3)**

Consideration of education as a dynamic institution in the culture of Western Civilization from Greek beginnings to contemporary America. Traced within a total historical context which includes geography, influential leadership and other developmental factors which are often the deep roots of evolution and innovative ideas and practices in an ever-changing society.

sec. no. 1487/Franklin/12:00 noon-1:35 p.m.

**E.P.S. 4020 Philosophy and Education (3)**

Analysis of current views on aims and processes of education. Students encouraged to formulate their own rational view of these aims and the educational practices consistent with them. Attention given to earlier insights most related to the present and possible future situation of education. Essence of course is dialogue.

\* sec. no. 1490/Healy/5:45-7:50 p.m.

**E.P.S. 4030 Education and Social Change (3)**

To help the educator understand his role as a change-agent, the main theories of change, resulting from inventions, reforms, revolutions and utopias are examined. Special attention given to the problem of resistance to needed educational and social innovations.

sec. no. 1492/Franklin/10:15-11:50 a.m.

\* sec. no. 1493/8:00-10:05 p.m.

**E.P.S. 4040 Comparative Education (3)**

Education in the United States and in other representative areas of the world compared. Emphasis placed on the foundations of education in their historic, socio-economic, and political setting.

sec. no. 1495/Williams/10:15-11:50 a.m.

**E.P.S. 4050 Urban Education (3)**

For students interested in teaching in an urban school system, especially inner-city: short orientation to the history and sociology of the contemporary urban scene; survey of the newer methods and helpful techniques; visits to selected urban classrooms; speakers representing important community offices.

sec. no. 1497/Williams/8:30-10:05 a.m.

sec. no. 1498/Willis/10:15-11:50 a.m.

\* sec. no. 1499/Welch/8:00-10:05 p.m.

**Ed. Psy. 3801 Educational Psychology (3)**

An analysis of learning theory and its application. Considers cognition, motivation, tests and measurements.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

\* sec. no. 6004/Hart/5:45-7:50 p.m. first class/external

sec. no. 1429/Fanelli/10:15-11:50 a.m.

sec. no. 1430/Larghi/8:30-10:05 a.m.

**Ed. Psy. 3802 Educational Psychology of the Disadvantaged Urban Child (3)**

Nature and development of the learning process for the inner-city child; emphasis on current research in compensatory programs.

Prerequisite: Ed. Psy. 3801 or permission of instructor.

\* sec. no. 6005/Hart/8:00-10:05 p.m. first class/external

**Ed. Psy. 4801 Group Dynamics — Principles and Applications (3)**

Principles of group function (types of groups, group structure, communication, leadership, membership roles, etc.), means of observing and recording group information, and techniques of working with groups. Designed for students interested in group processes and group work in education, recreation and allied fields.

sec. no. 1436/Fanelli/12:00 noon-1:35 p.m.

**Eng. 1000 English as a Second Language I (3)**

Practice in understanding, speaking and reading English for the student whose native language is not English.

sec. no. 1440/DiFanti/10:15-11:50 a.m.

**Eng. 1001 English as a Second Language II (3)**

Continued practice in speaking and reading English for the student whose native language is not English. Instruction in writing short passages.

Prerequisite: Eng. 1000 or consent of instructor.

sec. no. 1442/10:15-11:50 a.m.

\* sec. no. 1443/5:45-7:50 p.m.

**Eng. 1002 Writing in English I (3)**

Introduction to the writing of expository English. Continued practice in reading English.

Prerequisite: Eng. 1001 or consent of instructor.

sec. no. 1446/8:30-10:05 a.m.

\* sec. no. 1447/5:45-7:50 p.m.

**Eng. 1003 Writing in English II (3)**

Continuation of Eng. 1002. Writing of expository prose, based on readings of essays, short stories, and poetry. The technique of the research paper.

Prerequisite: Eng. 1002.

sec. no. 1450/12:00 noon-1:35 p.m.

\* sec. no. 1451/5:45-7:50 p.m.

Eng. 1010 is prerequisite to all English courses beyond the 1000 level except in cases of exemption or permission of the instructor.

**Eng. 1010 Composition (3)**

Development of skills in reading and writing expository prose and in the techniques of research.

sec. no. 1454/Scotto/8:30-10:05 a.m.

\* sec. no. 1455/8:00-10:05 p.m.



**Eng. 2035 Feature Writing**

Instruction and practice in the principles of writing the feature article for both newspapers and magazines with emphasis on style, organization, and human interest.

\* sec. no. 1458/Fyne/8:00-10:05 p.m.

**Eng. 2206 British Literature II (3)**

Major writers, styles, ideas in English literature from Milton to the 20th Century.

sec. no. 1460/Sanders/10:15-11:50 a.m.

**Eng. 2215 Shakespeare Survey (3)**

An introduction to Shakespeare's comedies, histories and tragedies.

sec. no. 1462/Evans/12:00 noon-1:35 p.m.

\* sec. no. 1463/Larsen/5:45-7:50 p.m.

**Eng. 2221 American Literature from 1860 to 1914 (3)**

A survey from the Civil War to World War I with emphasis on Whitman, Twain, James, Howells, Crane and Dreiser.

\* sec. no. 1465/8:00-10:05 p.m.

**Eng. 2505 Literature for the Adolescent (3)**

A study of traditional and contemporary literature of interest and value to adolescents.

sec. no. 1468/Krueger/8:30-10:05 a.m.

**Eng. 3335 English Romantic Literature (3)**

Writings of Wordsworth, Byron, Shelley, Coleridge, Hazlitt and Lamb, studied in relation to history and culture of the time.

sec. no. 1470/Wendt/12:00 noon-1:35 p.m.

**Eng. 3350 Contemporary Literature (3)**

American, English and European literature of the twentieth century.

\* sec. no. 6006/Fyne/5:45-7:50 p.m./first class/external

sec. no. 1473/Holzchlag/12:00 noon-1:35 p.m.

**Eng. 3510 Aspects of the Novel (3)**

Such novelists as Joyce, Gide, Kafka, Lawrence, Hemingway, Faulkner and Woolf, studied in relation to their antecedents in the realistic novel of the 19th century.

sec. no. 1476/Reicker/10:15-11:50 a.m.

**Eng. 4420 Fitzgerald, Faulkner and Hemingway (3)**

The major fiction of the writers with emphasis on literary, biographical and historical values.

Prerequisite: Eng. 2220 or Eng. 2221 (recommended).

\* sec. no. 1480/Weinstein/8:00-10:05 p.m.

**Eng. 4710 Literature and the Supernatural (3)**

The influence on our culture of magic, occult philosophies, witchcraft, and the paranormal examined from traditional and contemporary sources in literature.

For graduate credit. By permission of student's graduate advisor.

sec. no. 1482/Currier/10:15-11:50 a.m.

**F.A. 1000 Introduction to Art — Various Media (3)**

Appreciation, analysis and creation in the visual arts. Exploration of materials, tools and processes. Credit granted for one option only. Not for Fine Arts majors. Studio emphasis on various media.

sec. no. 1509/10:15-11:50 a.m.

**F.A. 1001 Introduction to Art — Painting & Drawing (3)**

Appreciation, analysis and creation in the visual arts. Exploration of materials, tools and processes. Credit granted for one option only. Not for Fine Arts majors. Studio emphasis on painting and drawing.

‡sec. no. 1511/Cornish/12:00-3:10 p.m.

**F.A. 1002 Introduction to Art — Printmaking & Drawing (3)**

Appreciation, analysis and creation in the visual arts. Exploration of materials, tools and processes. Credit granted for one option only. Not for Fine Arts majors. Studio emphasis on printmaking and drawing.

\* sec. no. 1513/Pierro/8:00-10:05 p.m.

**F.A. 1100 Design I (3)**

Introductory studio course for fine arts majors. The structuring of visual elements, leading to personal expression and artistic awareness. Deals with the two-dimensional media.

sec. no. 1516/Coon/Mon. & Wed. 8:30 a.m.-12:00 noon

**F.A. 1101 Design II (3)**

Continuation of F.A. 1100, dealing with three-dimensional media.

Prerequisite: F.A. 1100.

sec. no. 1518/Coon/Tues. & Thurs. 8:30 a.m.-12:00 noon

**F.A. 1700 Art History I (3)**

Chronological study of important works of art from Prehistory to the Renaissance. Stylistic analysis and comparison. Relationship of the art form to its cultural setting.

sec. no. 1523/Wilber/8:30-10:05 a.m.

**F.A. 1230 Drawing (3)**

Materials and methods in drawing, with emphasis on personal vision and expression. Historic development of style in drawing.

\* sec. no. 1520/8:00-10:05 p.m.

**F.A. 2210 Watercolor (3)**

Materials and methods in the art of watercolor with experience in both opaque and transparent pigments. Theory and studio practice with historic developments in style.

Prerequisite: F.A. 1230 or permission of instructor.

\* sec. no. 1525/Burger/5:45-7:50 p.m.

**F.A. 3100 Lettering (3)**

Studio course to develop skill in lettering. Type indication for layouts. Finished lettering for reproduction. Emphasis on proportion, spacing, structure, recognition of basic styles and their appropriate usage. Historical development of letter forms.

Prerequisites: F.A. 1100.

\* sec. no. 1527/Holloway/5:45-7:50 p.m.

**F.A. 3200 Painting I (3)**

Studio course in design and expression in the media of painting, dealing with both traditional and experimental methods.

Prerequisite: F.A. 1230.

\* sec. no. 1529/Cornish/5:45-7:50 p.m.

**F.A. 3230 Life Drawing (3)**

A study of human form through drawing from life. The human form in the expression of other cultures and our own.

Prerequisite: F.A. 1230.

\* sec. no. 1531/Burger/8:00-10:05 p.m.







**F.A. 3260 Printmaking: Relief and Intaglio (3)**

Studio course with concentration on the processes of relief and intaglio printing. Original images and concepts through a variety of techniques.

Prerequisite: F.A. 1230.

\* sec. no. 1534/Pierro/5:45-7:50 p.m.

**F.A. 3261 Printmaking: Lithography and Screen Printing (3)**

Studio course with concentration on the processes of lithography and screen printing (serigraphy). Original images and concepts through a variety of techniques.

Prerequisite: F.A. 1230.

sec. no. 1536/Metzger/Mon. & Wed. 8:30 a.m.-12:00 noon

**F.A. 3301 Sculpture: Modeling and Casting (3)**

A studio course in the materials and methods of sculpture emphasizing modeling and casting processes. Field trip(s).

sec. no. 1538/Nicolescu/Mon. & Wed. 10:15-1:35 p.m.

**F.A. 3400 Ceramics I (3)**

Three-dimensional form as it relates to clay. Deals with hand-building, potters wheel, surface treatment, chemical and physical properties of clay and glazes. Ceramics as an art form.

sec. no. 1540/Buncamper/Mon. & Wed. 8:30 a.m.-12:00 noon

**F.A. 3401 Ceramics II (3)**

A continuation of Ceramics I in three-dimensional form as it relates to clay. Deals with hand-building, potters wheel, surface treatment, chemical and physical properties of clay and glazes. Ceramics as an art form.

Prerequisite: F.A. 3400.

sec. no. 1543/Buncamper/Tues. & Thurs. 8:30 a.m.-12:00 noon

**F.A. 3430 Jewelry I (3)**

Introductory studio course which explores design and construction of jewelry. Basic forming methods are covered, as well as methods of relating other materials to metal. Jewelry and metal design as an art form in our own time and in selected historic periods.

Prerequisite: F.A. 1000 or 1101.

sec. no. 1546/Goodwin/Tues. & Thurs. 8:30 a.m.-12:00 noon

**F.A. 3460 Introduction to Textiles (3)**

Introductory studio course in textiles as an art form. Weaving knotting, applied decoration, study of fibers. Historical development and contemporary forms in textiles.

Prerequisite: F.A. 1000 or F.A. 1100 or permission of the instructor.

sec. no. 1549/Skarsten/Tues. & Thurs. 8:30 a.m.-12:00 noon

**F.A. 3462 Weaving I (3)**

Studio course in the design and production of woven fabrics. Techniques in the use of primitive, table and floor looms. Fiber, color, and draft analysis.

Prerequisite: F.A. 1000 or F.A. 1100.

sec. no. 1551/Skarsten/Mon. & Wed. 8:30 a.m.-12:00 noon

**F.A. 3480 Furniture Making (3)**

Designing and making furniture. Techniques of fabricating, joining and finishing. Integration of concept, material and process will be emphasized. Materials will include wood, metal, plastic and fiber.

sec. no. 1553/Topper/Mon. & Wed. 8:30 a.m.-12:00 noon

**F.A. 3600 Film-Making I (3)**

Studio course dealing with design and expression in the medium of the film. Practical and aesthetic problems in the creation of the film.

Prerequisite: F.A. 1000 or F.A. 1101.

sec. no. 1555/Nicolescu/8:30-10:05 a.m.

**F.A. 3660 School Theater and Puppetry (3)**

Studio course dealing with the function of the theater in the school program. Basic set design, construction, lighting; techniques of puppets and marionettes.

Prerequisite: F.A. 1000 or F.A. 1101.

sec. no. 1558/12:00-1:35 p.m.

**F.A. 3792 History of Architecture (3)**

Chronological survey of selected key monuments from prehistory to the twentieth century emphasizing structural, programmatic, and formal analysis. Site planning of buildings and the evolution of cities and city planning. Architecture as deeply related to culture and events of its time.

sec. no. 1560/Bensky/12:00 noon-1:35 p.m.

**F.A. 3910 Art in Education (3)**

Understanding the child's natural modes of expression, selection of media to develop this expression, and finding ways of teaching in the elementary school which will increase esthetic awareness, develop skills, enrich experience, and invite expression. Not intended for fine arts majors.

sec. no. 1562/St. John/10:15-11:50 a.m.

†sec. no. 1563/Howe/12:00 noon-3:10 p.m.

**F.A. 3920 Art in Early Childhood Education (3)**

Content similar to that of F.A. 3910 but dealing with children of the nursery school age through the third grade. Not intended for Fine Arts majors.

sec. no. 1566/St. John/8:30-10:05 a.m.

**F.A. 4000 Independent Study I (3)**

Independent projects or research in a specific field of interest, by arrangement with a sponsoring professor.

Prerequisite: Prior departmental approval.

sec. no. 1568

**F.A. 4001 Independent Study II (3)**

Independent projects or research in a specific field of interest, by arrangement with a sponsoring professor.

Prerequisite: Prior departmental approval.

sec. no. 1570

**I.D. 4850 Interrelating the Arts (3)**

Interrelationships of form and content in the expressive arts, studies through personal involvement in the visual arts, dance, music and drama.

Prerequisite: Two courses in the areas of art, music, dance or drama.

\* sec. no. 1625/Howe/5:45-7:50 p.m.

**H. Ed. 1100 Healthful Living (2)**

A background of scientifically accurate health information, realistic criticism of various panaceas, and emphasis on positive health through planning and practicing a wholesome program of living. The course furnishes experiences for the student to find out about himself and his health needs and to act accordingly.

†sec. no. 1572/8:30-10:05 a.m.

\* sec. no. 1573/8:00-10:05 p.m.

Health



**H. Ed. 1400 Human Sexuality (2)**

An overview of sex and sexuality in today's society, with implications for evolving male-female relationship, dating patterns, marriage and responsible parenthood.

sec. no. 1575/8:45-10:05 a.m.

\* sec. no. 1576/6:30-7:50 p.m.

**H. Ed. 3506 Health Education in the Elementary School (1.5)**

An examination of health services, school health environment, and the school health curriculum at the elementary school level. Special attention will be paid to the role of the elementary school teacher as a health educator.

‡sec. no. 1578/12:00 noon-1:35 p.m.

**H. Ed. 3537 (3237) School and Community Health Program (2)**

The school and community health program, the teacher's role in school and community health services, healthful school environment, and health instruction in the elementary school.

†sec. no. 1580/12:00 noon-2:10 p.m.

**H. Ed. 4333 Alcohol and Narcotics Education (3)**

A comprehensive course dealing with alcoholic beverages, narcotics, and other addicting and habit-forming drugs, and the effect of their usage upon the individual and society.

\* sec. no. 1583/8:00-10:05 p.m.

**H. Ed. 4434 (4234) Sex Education (3)**

Designed to prepare teachers of human sexuality for both elementary and secondary school levels. Attention given to teaching techniques, curriculum design and program implementation.

Prerequisite: H. Ed. 1400.

sec. no. 1587/8:30-10:05 a.m.

**Hist. 1030 History of Western Civilization I (3)**

A survey of the historical development of modern civilization from early times. Special attention given to cultural diffusion and integration, to institutions and ideas.

sec. no. 1590/Goldberg/8:30-10:05 a.m.

**Hist. 1040 History of Western Civilization II (3)**

A continuation of History 1030.

sec. no. 1593/Letterese/10:15-11:50 a.m.

**Hist. 2303 United States History to 1877 (3)**

A comprehensive study of the American people, including the colonial period, the struggle for independence and the national period through Reconstruction.

\* sec. no. 1596/Rice/5:45-7:50 p.m.

**Hist. 2304 United States History — 1877 to Present (3)**

A study of the development of American industrialism, westward expansion, the reform impulse and foreign affairs to the present day.

\* sec. no. 1599/Rice/8:00-10:05 p.m.

**Hist. 2471 History of Far Eastern Civilization I: From Early Times to the 19th Century (3)**

Designed to give the student an intelligent understanding and appreciation of the great cultural traditions of the Far Eastern World. Surveys the culture and civilizations of China, Japan, and Korea from early times to the 19th century, with significant source materials in suitable English translations.

†sec. no. 1601/Didsbury/8:30-11:50 a.m.

**Hist. 3231 Medieval Europe: History and Civilization I (3)**

Europe from the Barbarian invasions to the renaissance of the 12th century. A survey of the history, institutions and culture of the middle centuries of Western Civilization.

Prerequisite: Six hours of history.

\* sec. no. 1604/Zimmer/5:45-7:50 p.m.

**Hist. 3324 The American West (3)**

The history of the advancing frontier in the United States from colonial times through the nineteenth century with an analysis of its effect upon the institutional and intellectual development of the American people. Special emphasis given to the historiography of American frontier history.

Prerequisite: Six hours of history.

sec. no. 1606/Fridlington/8:30-10:05 a.m.

**Hist. 3326 History of New Jersey (3)**

The social and political development of New Jersey within the larger context of American history.

Prerequisite: Six hours of history.

sec. no. 1608/Fridlington/12:00 noon-1:35 p.m.

**Hist. 3860 Jewish History (3)**

Beginning with the period of the Patriarchs, an overall picture of the most important eras in the history of the Jewish people.

Prerequisite: Six hours in history.

\* sec. no. 1610/Zimmer/8:00-10:05 p.m.

**Hist. 4237 Europe Since 1870 (3)**

Changes in European societies since the unification of Italy and Germany, with particular attention to nationalism and imperialism, democracy and dictatorship. Post-war trends toward European integration assessed in terms of Europe's position in the late 20th century world.

Prerequisite: Six hours of history.

sec. no. 1612/Letterese/12:00 noon-1:35 p.m.

**Hist. 4238 History of Germany, 1805 to Present (3)**

The emergence of modern Germany with emphasis on political unification, economic growth, militarism, nationalism, the World Wars and their aftermath.

Prerequisite: Six hours of history.

sec. no. 1614/Goldberg/10:15-11:50 a.m.

**Hist. 4361 The American City (3)**

The growth of urban America, beginning with the colonial seaports through the 20th century, including the spread of industrialization, transportation and communication. The impact of the city on American culture. Present day problems—race relations, the population explosion, the rise of suburbia, and the development of megalopolis.

Prerequisite: Six hours of history.

sec. no. 1616/Furer/8:30-10:05 a.m.

**Hist. 4367 The History of American Immigration (3)**

The society of the United States as a mosaic made up of various immigrant groups. Each successive wave of newcomers treated separately: their origins and character; their settlement and reception in the United States; their reaction to the new world; their impact on their adopted country; the effect of the exodus on their homelands; and United States immigration policies.

Prerequisite: Six hours of history.

sec. no. 1618/Furer/10:15-11:50 a.m.



**Hist. 4995 Independent Study in History (3)**

Opportunity for history majors to develop independent research projects in particular fields under the guidance of members of the department. Meeting hours arranged by student and advisor and consist of at least thirty fifty-minute periods. The student is responsible for the plan of work, its development, and a final presentation in conformity with standards set by the advisor.

Prerequisite: Six hours of history and prior department approval.

sec. no. 1620

**I.S. 1200 Elements of Drafting (3)**

Application of drafting room standards and experiences in the use of drafting instruments, lettering, pencil and ink line work, freehand sketching, and in the reproduction of drawings. Instruction includes geometric construction, orthographic projection, sections and conventions, working drawings, and graph and chart construction.

sec. no. 1630/7:00-8:55 a.m.

**I.S. 1300 Elements of Woodworking (3)**

Experience in hand joinery, wood finishing and basic machine operation. Instruction includes units on lumber selection and use, hardware selection, fastening devices and methods and essential care and maintenance of tools and machines.

sec. no. 1633/Van Nest/7:00-8:55 a.m.

**I.S. 1400 Elements of Metalworking (3)**

Introductory units in the areas of foundry, sheet metal fabrication, machine operation, forging and heat treating with emphasis placed on project design, effective laboratory practice and craftsmanship.

\* sec. no. 1636/5:00-7:40 p.m.

**I.S. 1500 Elements of Electronics (3)**

Technology of electronics through examination of its most basic concepts and fundamentals. Laboratory units allow the student to apply learnings, conduct quantitative measurements, gain experience in using electronic test instruments, and develop ability to write effective technical reports.

\* sec. no. 1639/Cokewood/5:00-7:45 p.m.

**I.S. 2301 Machine Woodworking (3)**

The development of skills, techniques and procedures in safely using and maintaining woodworking machines, both stationary and portable.

Prerequisite: I.S. 1300.

\* sec. no. 1641/Peterson/5:00-7:40 p.m.

**I.S. 2602 Screen Process Reproduction (3)**

A background in screen process printing and experiences in related photo mechanics.

Prerequisite: I.S. 1600.

sec. no. 1642/Lokuta/8:00-10:05 a.m.

**I.S. 3471 Metalsmithing I (3)**

Introduction to the development of hand wrought metal objects.

\* sec. no. 1643/Endres/8:00-10:40 p.m.

**I.S. 3603 Black and White Photographic Reproduction (3)**

Background in basic photography with emphasis on camera technique, photographic composition, and darkroom operation. Student must supply own camera.

Prerequisite: I.S. 2602.

sec. no. 1644/Lokuta/10:15-12:10 a.m.

**I.S. 4102 Principles and Techniques of Teaching Industrial Arts Education (2)**

Patterns of organization, class management, teaching methods and lesson planning are of primary concern. An opportunity to recognize and analyze the many problems of teaching industrial arts will be provided.

† sec. no. 1645/Snyder/5:00-7:45 p.m.

**I.S. 4103 Principles, Methods and Curriculum in Industrial Arts Education (2)**

The study of accepted industrial arts curriculum and teaching practices used in the Public Schools of New Jersey.

‡ sec. no. 1647/Snyder/5:00-7:45 p.m.

**I.S. 4104 Principles and Techniques of Education (3)**

This course introduces the student to curriculum patterns, planning techniques, methods of discussion, and to general principles of instruction required for teaching in either elementary or secondary schools.

\* sec. no. 1649/Snyder/8:00-10:05 p.m.

**I.S. 4181 Independent Study in Industrial Education (3)**

Industrial Education majors given opportunity to develop independent projects or research studies in their field. Each student expected to initiate an independent program of study under the close supervision of a faculty member. Student is responsible for the plan of work, its accomplishment and suitable presentation at completion of course. Hours to be arranged by student and instructor; study shall involve a minimum of 75 clock hours of classroom and/or laboratory work. Enrollment is by permission of advising faculty member.

sec. no. 1650

**I.S. 4182 Independent Study in Industrial Education II (3)**

A continuation of I.S. 4181.

sec. no. 1651

**I.S. 4183 The World of Construction (3)**

Comprehensive study of construction methods and related careers including an analysis of the managed-personnel-production system of construction, a synthesis of housing construction practices, and a synthesis of city and regional planning practices.

sec. no. 1653/Van Nest/9:15-11:20 a.m.

**I.S. 4184 The World of Manufacturing (3)**

Comprehensive innovative study of manufacturing technology, divided into three sections: brief history and overview of major concepts, analysis of the manufacturing-personnel-production system and a synthesis of manufacturing practices as applied to the corporation. Geared to junior high school level teaching.

\* sec. no. 1655/Sladicka/11:30 a.m.-1:35 p.m.

**I.S. 4304 Contemporary Trends in Woodworking (3)**

Exploration of latest materials and methods of fabrication with emphasis on research and experimentation. Self-direction on the part of students in selecting and solving problems is required.

Prerequisite: I.S. 2301.

\* sec. no. 1657/Peterson/8:00-10:40 p.m.

**I.S. 4898 Cooperative Education — Industrial Education I (3)**

An opportunity for upper level students majoring in Industrial Studies or Industrial Technology to obtain supervised work experience related to their major area of specialization.

sec. no. 1658/To be arranged





Library Science

**I.S. 4899 Cooperative Education — Industrial Education II (3)**

An opportunity for upper level students majoring in Industrial Studies or Industrial Technology to obtain supervised work experience related to their major area of specialization.

sec. no. 1659/To be arranged

**L.S. 3000 Basic Reference and Bibliographical Services I (3)**

Introduction and use of basic reference tools for the school library: encyclopedias, dictionaries, yearbooks, periodical indexing services, "ready" reference works, and other standard sources in the location of information.

†sec. no. 1660/Temkin/12:00 noon-3:10 p.m.

**L.S. 3030 Fundamentals of Cataloging and Classification (3)**

Techniques in the organization of materials for ready use are presented with emphasis upon the Dewey Decimal Systems of Classification. Elementary instruction in the preparation of catalog cards, selection of subject headings, acquisition and use of printed catalog cards, and organization of the card catalog.

‡sec. no. 1663/Temkin/12:00 noon-3:10 p.m.

**L.S. 4000 School Library Administration (3)**

Organization of both the service and instructional functions of the school library, interrelating all aspects of the previous library science offerings into one structural whole. Special attention to budgetary procedures, technical processes, library program —including instruction in the use of the library, publicity and exhibit techniques, preparation of library reports, relationship with students, faculty, and administration. Recent field experiences are used to guide the development of the above areas.

Prerequisite: L.S. 2000.

‡sec. no. 1666/Schwartz/8:30-11:50 a.m.

**L.S. 4010 Book Selection for Children and Young People (3)**

Techniques in selection and evaluation of children's and young people's literature. Major emphasis upon individual acquaintance with a broad cross-section of available materials through extensive critical reading. Practice in the art of story-telling and presentation of book talks. Selection and evaluation of non-print media.

†sec. no. 1669/Schwartz/8:30-11:50 a.m.

Management Science

**Mgt. Sci. 1030 Fundamentals of Business Analysis (3)**

Fundamental economic and business analysis of the domestic market; role of monetary policy; examination of marketing and financial functions and institution; opportunities in international business.

\* sec. no. 1694/Hiraoka/8:00-10:05 p.m.

sec. no. 1695/Hiraoka/12:00 noon-1:35 p.m.

**Mgt. Sci. 2030 Business Organization and Management (3)**

Surveys the various forms of business organization and the methods and principles used in production, marketing, credit and competition. Examines the responsibilities of management in the organization of business.

sec. no. 1697/M. Schwartz/10:15-11:50 a.m.

**Mgt. Sci. 2110 Quantitative Methods in Management Science (3)**

Application of quantitative methods to business and management problems. Includes functions, matrix and linear algebra, mathematics of finance, differential calculus. Students completing this course will not receive credit for Econ. 3200.

Prerequisite: Two years of high school algebra or equivalent.

\* sec. no. 1700/Fulop/8:00-10:05 p.m.

sec. no. 1701/Swensen/10:15-11:50 a.m.

**Mgt. Sci. 2120 Business Statistics (3)**

The methods used for the collection, presentation and analysis of business data, including sampling, the estimation of population parameters, index numbers, probability theory, the normal distribution, confidence intervals, testing of hypothesis and regression and correlation.

Prerequisite: Two years of high school algebra or equivalent.

sec. no. 1704/Swensen/12:00 noon-1:35 p.m.

\* sec. no. 1705/Fulop/5:45-7:50 p.m.

**Mgt. Sci. 2200 Principles of Accounting I (3)**

An introduction to accounting concepts and principles involved in financial reports of proprietorships, partnerships and corporations including the techniques of debit and credit trial balances, adjustments and statements. Maximum of 25 students per section.

\* sec. no. 1708/Capone/5:45-7:50 p.m.

sec. no. 1709/Grossberg/8:30-10:05 a.m.

\* sec. no. 1710/Van Houten/8:00-10:05 p.m.

**Mgt. Sci. 3030 Personnel Management (3)**

Personnel recruitment, development, utilization and accommodation within the organization studied within the analytical framework of the behavioral sciences. Effective personnel policies and procedures emphasized with respect to the goals of the organization and the objectives of the organization's members.

Credit cannot be granted for both Mgt. Sci. 3030 and Psy. 4420 Industrial Psychology.

sec. no. 1713/M. Schwartz/8:30-10:05 a.m.

**Mgt. Sci. 3200 Principles of Accounting II (3)**

Use of accounting data as an aid in formulating managerial decisions analysis and interpretation of financial statements, the nature, source and flow of funds and the preparation of fund statements; the safeguarding of assets and the checking of the accuracy and reliability of accounting data through the use of internal control systems; special problems in connection with the accounting for cash, payroll and sales tax, investments, fixed assets and liabilities; and the study of cost accounting.

Prerequisite: Mgt. Sci. 2200.

\* sec. no. 1716/Capone/8:00-10:05 p.m.

sec. no. 1717/Grossberg/10:15-11:50 a.m.

**Mgt. Sci. 3310 Management of Corporate Finance I (3)**

The study of the principles and procedures of finance and their applications to typical financial problems. Financial analysis, capital budgeting, long-term financing, cost analysis and concepts of valuation from the viewpoint of the financial manager.

Prerequisite: Mgt. Sci. 3200.

sec. no. 1720/Glassberg/12:00 noon-1:35 p.m.

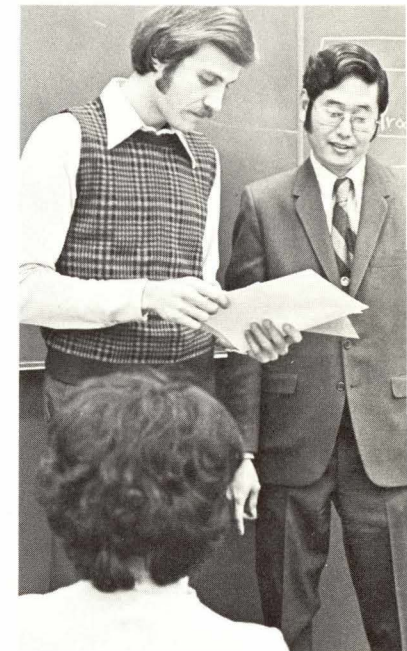
**Mgt. Sci. 3410 Basic Marketing (3)**

(formerly Marketing)

An extensive overview of the field of marketing in one semester. Covers the fundamental concepts of contemporary marketing, its function in the economy, and its relation to today's social concerns. Specific topics include consumer behavior, industrial marketing, product development, channels of distribution, advertising and promotion, and pricing. Not open to students who have received credits for Mgt. Sci. 3401-3402.

sec. no. 1722/Greenberg/10:15-11:50 a.m.

\* sec. no. 1723/Sandhusen/5:45-7:50 p.m.





**Mgt. Sci. 3430 Essentials of Advertising (3)**

Survey of the entire field of advertising and its place in the total marketing program. Covers advertising objectives, research methods, management of advertising campaigns, advertising copy and production. Focus on the functional interrelationships of advertisers, agencies, and media.

Prerequisite: Mgt. Sci. 3410 or 3401-3402.

\* sec. no. 1725/Sandhusen/8:00-10:05 p.m.

**Mgt. Sci. 4300 Investments (3)**

The basic principles of investments suitable for the individual and for business organizations. A study of the security market, the market influences on security prices, exchange regulation and the development of investment programs.

Prerequisite: Mgt. Sci. 3310.

sec. no. 1727/Glassberg/10:15-11:50 a.m.

**Math. 1011 Number Theory in Elementary Mathematics (3)**

The study of the properties of prime numbers has intrigued professional as well as amateur mathematicians. Many of these ideas about prime numbers can be used in developing interest and creativity in elementary school mathematics. Other topics include: Figurate numbers, composite numbers, factorization methods, modular arithmetic, Euler's function. For non-mathematics majors.

sec. no. 1671/Levine/10:15-11:50 a.m.

**Math. 1013 Finite Mathematics with Applications (3)**

Sets, counting, probability, matrices, linear programming and theory of games. Practical applications of mathematics to the behavioral, managerial and life sciences are emphasized. For non-mathematics majors.

sec. no. 1673/Levine/8:30-10:05 a.m.

**Math. 1014 Elementary Mathematical Systems (3)**

(formerly Elementary Number Systems)

Sets, logic, groups, rings, fields. Many concrete examples, both numerical and non-numerical, are studied as examples of elementary mathematical structures. For non-mathematics majors.

\* sec. no. 1675/Krantz/8:00-10:05 p.m.

**Math. 1016 Statistics (3)**

Graphic treatment of data; mean, median, mode; variance, standard deviation, and correlation. Non-parametric techniques such as chi-square and rho are included.

sec. no. 1677/Zoll/8:30-10:05 a.m.

\* sec. no. 1678/5:45-7:50 p.m.

**Math. 1051 Fundamentals of College Algebra (3)**

Review of elementary algebra, exponents, radicals, logarithms. Introduction to functions with strong emphasis on solution and graphing of linear equations, inequalities and quadratic functions. Not open to students with credit in Math. 1052 or higher numbered mathematics course.

Prerequisites: 1-2 years of high school algebra and permission of department chairperson.

sec. no. 1680/Lipson/12:00-1:35 p.m.

**Math. 1052 College Algebra and Trigonometry (3)**

Systems of equations and inequalities are solved by the using of the axioms of the Real Number system, matrices and determinants, and elementary theory of equations; properties of the complex numbers, mathematical induction, and the Binomial Theorem. Algebraic, logarithmic, exponential and trigonometric functions with emphasis on trigonometric identities and trigonometric analysis.

Credit will not be given for both Math. 1052 and 2407.

Prerequisites: three years of secondary school mathematics. If student has low score on mathematics placement test, Math. 1051 is also required.

sec. no. 1682/Zoll/10:15-11:50 a.m.

\* sec. no. 1683/Hothersall/5:45-7:50 p.m.

**Math. 2411 Calculus I (3)**

Functions, limits, and continuity, derivatives and differentials of algebraic functions, tangents and normals to curves, maxima and minima problems, applications. Applications oriented sections offered for those interested in physical and biological sciences or social and management sciences.

Prerequisite: Math 1052 or equivalent or permission of the instructor.

sec. no. 1686/Lipson/8:30-10:05 a.m.

\* sec. no. 1687/Krantz/5:45-7:50 p.m.

**Math. 2412 Calculus II (3)**

Differentiation of transcendental functions, integration of algebraic and transcendental functions, curvilinear areas, rectification of arcs, volumes, applications, introduction to differential equations. Applications oriented sections offered for those interested in physical and biological sciences or the social and management sciences.

Prerequisite: Math. 2411 or permission of the instructor.

\* sec. no. 1689/Hothersall/8:00-10:05 p.m.

**Mus. 1000 Music Survey (3)**

Understanding of music through study of music elements, forms, terms, styles, composers, and representative compositions in class, outside listening and music performance attendance.

No prerequisites.

sec. no. 1730/Grace/8:30-10:05 a.m.

\* sec. no. 1731/Feldman/5:45-7:50 p.m.

**Mus. 1050 Music Fundamentals (3)**

Introduction to rudiments of music and notation. Developing understanding of the music language and facility in music reading and aural perception, through class and individual vocal and instrumental practice and written work. This course is designed as preparation for Mus. 2305, 2310, music education courses required of early childhood and elementary education majors.

sec. no. 1733/Huber/10:15-11:50 a.m.

\* sec. no. 1734/Herron/8:00-10:05 p.m.

**Mus. 1102 Music Theory II (3)**

Review of music fundamentals, notations and grammar, written and keyboard harmony, ear training, sight singing and dictation.

Prerequisite: Music major curriculum or department consent.

sec. no. 1737/Golub/8:30-10:05 a.m.

**Mus. 2103 Music Theory III (3)**

Continuation of Mus. 1101-1102, including chromatic and post-functional harmony, possibly counterpoint and the beginning of original creative work.

Prerequisite: Mus. 1102 or equivalent.

sec. no. 1739/W. Price/10:15-11:50 a.m.



**Mus. 3240 Contemporary Music (3)**

Study of the main trends in the 20th century music with examples from representative contemporary composers and works.

Prerequisite: Music major curriculum, Mus. 1000 or department consent.

sec. no. 6008/Golub/8:00-10:05 p.m. or by appointment/external

**Mus. 3250 Jazz in American Culture; From Dixieland to Rock (3)**

The development and influence of American Jazz from its beginnings in New Orleans to the present highlighting the musical styles of innovative vocalists and instrumentalists and their influence upon American culture.

sec. no. 1743/Volte/12:00 noon-1:35 p.m.

**Mus. 3255 Music of the American Theater (3)**

The evolution of theater music in the United States from the nineteenth century minstrel shows to the musicals of the present.

sec. no. 1745/Feldman/8:00-10:05 p.m.

**Mus. 3400 Therapeutic Use of Music (3)**

A study of music as a therapeutic means of dealing with exceptional children and adults.

Prerequisite: Sp. Ed. 2052 or permission of instructor.

sec. no. 1747/Zimmer/8:30-10:05 a.m.

**Mus. 4939 Elementary Classic Guitar Workshop (3)**

Introductory course for those desiring to play the classic guitar. Study of the fundamental techniques used on this instrument. Class and individual instruction. Students will learn to read music. Must have nylon string guitar.

\* sec. no. 1749/Varner/5:45-7:50 p.m.

**Phil. 1100 (1040) Philosophy (3)**

A general introduction to the ideas of great philosophers, major schools of thought, and basic issues. Among the topics considered are the meaning of philosophy, reality, knowledge, values and social philosophy.

sec. no. 1770/Stern/8:30-10:05 a.m.

\* sec. no. 6010/Sitelman/8:00-10:05 p.m./external

\* sec. no. 1772/Sitelman/5:45-7:50 p.m.

sec. no. 1773/Stern/10:15-11:50 a.m.

**Phil. 2400 (3220) Philosophy of Man (3)**

A study of some of the modern and classical philosophical approaches to the nature of man: perception and intellection, free will and determinism; soul and mechanism; mind and body. An investigation into some of the philosophical foundations of modern theories of psychology.

Prerequisite: 3 semester hours in philosophy.

sec. no. 1776/Fethe/10:15-11:50 a.m.

**Phil. 2410 Philosophy of Religion (3)**

The philosophical basis of the major Western religions. Attention is given to traditional proofs of God's existence, the problem of evil, the relation between science and religion, and the significance of contemporary Death-of-God theology.

Prerequisite: 3 semester hours in philosophy or permission of instructor.

sec. no. 1778/D'Souza/12:00 noon-1:35 p.m.

**Phil. 3210 Social and Political Philosophy (3)**

The nature of the good society; the justification and criticism of social institutions as well as proposals for their reconstruction; a critique of the basic moral assumptions underlying various political doctrines and an analysis of concepts like law, natural law, rights, political obligation, equality, liberty and the common good.

Prerequisite: 3 semester hours in philosophy or permission of instructor.

\* sec. no. 1781/Pashman/8:00-10:05 p.m.

**Phil. 4610 (4530) Independent Study (3)**

Independent research projects under the guidance of members of the department. Meeting hours and times are arranged by the student and instructor.

Prerequisite: Nine semester hours in philosophy or six semester hours with permission of instructor.

sec. no. 1783

**P. Ed. 1080 Swim I (Beginning Swimming) (1)**

Open only to those who cannot swim two pool lengths (50 yards). Designed to provide a feeling of safety in deep water and ability to do a 1-minute support and to swim a minimum of two pool lengths using two different strokes in two different positions.

sec. no. 1752/1:45-3:50 p.m.

**P. Ed. 1081 Swim II (Intermediate Swimming) (1)**

Seven basic swimming strokes, beginner's diving, water games, stunts and basic safety skills.

Prerequisite: Ability to swim in deep water.

sec. no. 1754/1:45-3:50 p.m.

**P. Ed. 2500 Introduction to Biomechanics (2)**

The application of biomechanics to human movement, emphasizing physical education.

\* sec. no. 1756/6:30-7:50 p.m.

**P. Ed. 3600 (3621) Play and Rhythm Activities in Early Childhood Education (3)**

Designed to provide the student interested in early childhood education with an understanding and appreciation of the contribution that play and rhythm activities can make towards the development of the whole child concept during this formative stage of growth.

sec. no. 1758/12:00-1:35 p.m.

**P. Ed. 3615 Physical Education in the Elementary School (1.5)**

The principles, philosophy, objectives and specifics of practice in physical education for effective work with school children. Units of work on the various levels planned, yearly programs developed and activities applicable to all levels taught and analyzed.

† sec. no. 1760/12:00 noon-1:35 p.m.

†\* sec. no. 1761/5:45-7:50 p.m.

**Phys. 2081 Physics I Lecture (3)**

This course duplicates the non-laboratory portion of Phys. 2091 and has the same prerequisites and corequisites. It is non-laboratory and restricted to non-matriculated students wishing to transfer credits to institutions not requiring laboratory. Students will meet with Phys. 2091 and be responsible for all non-laboratory assignments of those courses.

\* sec. no. 1788/Struyk/5:25-7:45 p.m.

sec. no. 1789/Blount/10:50 a.m.-12:30 p.m.

**Phys. 2082 Physics II Lecture (3)**

This course duplicates the non-laboratory portion of Phys. 2092 and has the same prerequisites and corequisites. It is non-laboratory and restricted to non-matriculated students wishing to transfer credits to institutions not requiring laboratory. Students will meet with Phys. 2092 and be responsible for all non-laboratory assignments of those courses.

sec. no. 1791/Silano/9:20-11:00 a.m.

Philosophy

Physical Education

Physics



**Phys. 2091 General Physics I (4)**

A broad course designed to contribute to a quantitative understanding of the fundamental laws and principles of physics. Areas include mechanics, heat and sound. An understanding of the fundamentals of calculus is urged. No credit is granted without Phys. 2092. Prerequisite: Math. 1052-1053, its equivalent or permission of the instructor.

\* sec. no. 1793/Struyk/Lab 7:55-10:15 p.m.;

Lecture 5:25-7:45 p.m.

sec. no. 1794/Blount/Lab 8:30-10:40 a.m. M, T, R;

Lecture 10:50 a.m.-12:30 p.m.

**Phys. 2092 General Physics II (4)**

A continuation of Phys. 2091 which is prerequisite. Light, magnetism, electricity, and atomic physics.

sec. no. 1797/Silano/Lab 11:10 a.m.-1:30 p.m. M, T, R;

Lecture 9:20-11:00 a.m.

**Pol. Sci. 1010 Introduction to Political Science I: Elements of Politics (3)**

The concepts, terminology, problems and analytical approaches of the field of political science.

\* sec. no. 1800/Ross/5:45-7:50 p.m.

**Pol. Sci. 1020 Introduction to Political Science II: Political Institutions (3)**

The study of prevailing political institutions in the world today, their dynamics as they relate to the governing process.

sec. no. 1803/Israel/10:15-11:50 a.m.

**Pol. Sci. 1600 Criminal Justice in America (3)**

An introduction to the Criminal Justice System, focusing on the police in the political and social context of the United States. Topics will include: the relationship between the individual and the state, the politics of law enforcement, and the meaning of power in contemporary American society. The relationship between order and justice will also be examined in depth.

\* sec. no. 1806/Wanner/8:00-10:05 p.m.

**Pol. Sci. 2100 American Government and Politics (3)**

The basic political principles and patterns in the American tradition. A conceptual framework provides the base for examining the role of government, constitutionalism, federalism, civil rights, political processes and the changing relationships between the "levels" and "branches" of government.

sec. no. 1809/Kahn/8:30-10:05 a.m.

**Pol. Sci. 3145 The Politics of Presidential Nominating Conventions (3)**

How America nominates a President. Discussion topics will include recruitment, primaries, and pre-convention strategies. The class will attend sessions of the Democratic National Convention in New York, including committee hearings the preceding week, caucuses, and the open convention itself, depending on available arrangements. Students will be responsible for travel to New York City.

Prerequisite: Permission of instructor.

sec. no. 1812/Israel/12:00 noon-1:35 p.m.

**Pol. Sci. 3160 Ethnic Politics in the United States (3)**

Evaluation of the importance and impact of ethnic identifications in American politics: organizational styles characteristic of various ethnic groups; differences in political culture and political behavior among groups; and an assessment of the relative success of different ethnic groups in achieving their objectives.

Prerequisites: Three credits in Pol. Sci. or permission of instructor.

sec. no. 1815/Kahn/10:15-11:50 a.m.

**Pol. Sci. 3350 Totalitarian Politics (3)**

Survey and analysis of the doctrine and practice of unlimited state power.

Prerequisites: Three hours in Pol. Sci. or permission of instructor.

\* sec. no. 1817/Ross/8:00-10:05 p.m.

**Pol. Sci. 3400 International Politics (3)**

The state system and the balance of power, war in the pattern of international relations, suggest its subject matter.

Prerequisite: Six hours of political science or permission of instructor.

\* sec. no. 1819/Kelly/8:00-10:05 p.m.

**Pol. Sci. 3680 Constitutional Issues in Criminal Law (3)**

An analysis of the relationship of the states to the Bill of Rights, the effect of the Due Process Clause of the Fourteenth Amendment on the application of the Bill of Rights, and related issues as revealed in leading Supreme Court decisions relating to Criminal Justice.

Prerequisites: Pol. Sci. 2100 or permission of instructor.

\* sec. no. 1821/Wanner/5:45-7:50 p.m.

**Psy. 1000 General Psychology (3)**

An introduction to the study of human behavior and a foundation for later specialization in psychology. Perception and sensation, cognition, learning, motivation, intelligence, and personality.

sec. no. 1827/10:15-11:50 a.m.

sec. no. 1828/8:30-10:05 a.m.

\* sec. no. 1829/5:45-7:50 p.m.

**Psy. 2100 Child Psychology (3)**

The physical, intellectual, emotional, and social aspects of childhood, including individual differences, the behavior characteristics of various age levels, and the types and methods of adjustment.

Prerequisite: Psy. 1000.

sec. no. 1832/12:00 noon-1:35 p.m.

sec. no. 1833/10:15-11:50 a.m.

\* sec. no. 1834/5:45-7:50 p.m.

**Psy. 2110 Psychology of Adolescence (3)**

An examination of the nature of adolescence, as characterized by the group of developmental problems (biological, psychological, and social in origin), typically occurring during the second decade of life.

Prerequisite: Psy. 1000.

sec. no. 1838/10:15-11:50 a.m.

sec. no. 1839/12:00 noon-1:35 p.m.

\* sec. no. 1840/8:00-10:05 p.m.

\* sec. no. 1841/5:45-7:50 p.m.

**Psy. 3200 Psychological Statistics (3)**

An introduction to the statistical procedures by which small and large groups of data are treated, described, and analyzed, including interpretations and assumptions of correlation, probability and hypothesis testing, and chi square.

Prerequisite: Psy. 1000.

\* sec. no. 1845/8:00-10:05 p.m.





**Psy. 3310 Theories of Learning (3)**

Major theorists: Thorndike, Guthrie, Pavlov, Hull, Skinner, Lewin, Tolman are studied. Developments in stimulus sampling theory, mathematical models, physiological approaches, cognitive models and current applications are considered.

- \* sec. no. 1848/8:00-10:05 p.m.
- \* sec. no. 1849/5:45-7:50 p.m.

**Psy. 3320 Theories of Personality (3)**

The major systematized conceptualizations of personality: psychoanalytic and neopsychoanalytic theories, personologies, typologies, trait theories, field theories, learning-based theories, factor theories, and phenomenological theories.

- Prerequisite: Psy. 1000.
- sec. no. 1852/12:00 noon-1:35 p.m.
  - \* sec. no. 1853/5:45-7:50 p.m.

**Psy. 3540 Abnormal Psychology (3)**

Deviant and disordered behavior and experience, its overt manifestations and its underlying psychological, biological and social meaning.

- Prerequisite: Psy. 1000.
- sec. no. 1856/8:30-10:05 a.m.
  - \* sec. no. 1857/8:00-10:05 p.m.

**Psy. 3630 Social Psychology (3)**

The social influence on individual behavior and experience. How the thoughts, feelings, actions of individuals are influenced by the presence of other persons and by the complex social stimuli which surround them.

- Prerequisite: Psy. 1000.
- sec. no. 1860/8:30-10:05 a.m.
  - \* sec. no. 1861/5:45-7:50 p.m.

**Psy. 3650 Understanding Self and Others (3)**

The implications of psychological theories and research for individual development and adjustment. Grading on pass/fail basis only.

- Prerequisite: Psy. 1000.
- sec. no. 1863/10:15-11:50 a.m.

**Psy. 4200 Tests and Measurements (3)**

An introduction to concepts of psychological testing and a survey of various instruments used in psychology to measure intelligence, aptitudes, achievement, attitudes and personality.

- Prerequisite: Psy. 1000.
- sec. no. 1866/12:00 noon-1:35 p.m.
  - \* sec. no. 1867/8:00-10:05 p.m.

**Psy. 4360 Physiological Psychology (3)**

The interactions and relationships between the nervous system, other body processes, and behavior: fundamentals of neuronal activity; the nervous system; traditional topics such as motivation, cerebral functions, organic psychopathology; current areas of research such as the activity of the single neuron, the reticular activating system, sleep and drug effects.

- Prerequisite: Psy. 1000. Bio. 2402 recommended.
- \* sec. no. 1870/5:45-7:50 p.m.

**Psy. 4970 Independent Study in Psychology (3)**

Psychology majors in their senior year are given the opportunity to develop independent projects on appropriate topics under the guidance and supervision of a member of the department. Meeting hours arranged by the student and the advisor will consist of the equivalent of at least thirty fifty-minute periods. The student is responsible for the plan of work, its development, and a final presentation in conformity with standards set by the advisor.

- Prerequisite: Prior department permission.
- sec. no. 1872/Time to be arranged.

**Rec. 4500 Internship in Urban and Outdoor Recreation (5)**

Extended experiences in practical application of recreational skills at a cooperating recreation or outdoor education agency. Students return to campus or an off-campus center for courses. A minimum of 175 hours of supervised experiences required.

- Prerequisite: Permission of instructor.
- sec. no. 1875/8:30-10:05 a.m. first day only

**Rel. 1010 Introduction to Comparative Religion (3)**

A survey of Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity and Islam, emphasizing the origin, tenets, development and contemporary situation of each religion.

- \* sec. no. 1880/D'Souza/5:45-7:50 p.m.

**Soc. 1000 Principles of Sociology (3)**

An analysis and application of the basic concepts and research methods of sociology. Culture, community, group behavior, institutions and society are treated.

- sec. no. 1883/8:30-10:05 a.m.
- sec. no. 1884/12:00 noon-1:35 p.m.
- \* sec. no. 1885/8:00-10:05 p.m.
- \* sec. no. 1886/5:45-7:50 p.m.

**Soc. 2050 Social Statistics (3)**

An analysis of the measurement problems involved in the treatment of sociological data. An introduction to the statistical techniques most frequently used in sociological research.

- Prerequisites: Knowledge of high school algebra sufficient and Soc. 1000 or permission of department chairperson.
- sec. no. 1889/10:15-11:50 a.m.

**Soc. 2052 Methods of Social Research (3)**

The collection, organization, analysis and reporting of problem-centered social data, including sampling, interview techniques, the construction of questionnaires and the conduct of surveys.

- Prerequisite: Soc. 1000.
- sec. no. 1891/8:30-10:05 a.m.

**Soc. 2300 Racial and Cultural Minorities (3)**

Relations among racial, ethnic and religious minorities and their positions relative to the dominant social, economic and political structure of American Society.

- Prerequisite: Soc. 1000.
- sec. no. 1894/10:15-11:50 a.m.

Recreation

Religion

Sociology



**Soc. 2710 Crime and Delinquency (3)**

An analysis of crime and delinquency as a social phenomena. The relationship of crime and delinquency to various social institutions such as the economy, the family, the law. Prerequisite: Soc. 1000.

Students who have taken Soc. 2705 Criminology or Soc. 2710 Juvenile Delinquency (former titles) cannot get credit for this course.

\* sec. no. 1897/5:45-7:50 p.m.

**Soc. 3060 Society and Self (3)**

Analysis of the influence of social factors on the nature of self-attitudes, beliefs, and values. Review of theory and research on the nature of the socialization process.

Prerequisite: Soc. 2052 or permission of department chairperson.

sec. no. 1900/8:30-10:05 a.m.

**Soc. 3350 Social Stratification (3)**

An examination of the theories and research attempting to explain the unequal distribution of power, property and prestige in society. Particular emphasis on class and status groups in contemporary U.S. Society.

Prerequisite: Soc. 2052 or permission of department chairperson.

\* sec. no. 1902/5:45-7:50 p.m.

**Soc. 4700 Sociology of Deviance (3)**

Analysis of deviant behavior as a general characteristic of social systems. Critical review of various sociological theories concerning the nature and functions of deviance.

Prerequisite: Soc. 2052 or permission of department chairperson.

\* sec. no. 1904/8:00-10:05 p.m.

**Soc. 4090 Independent Study (3)**

An opportunity for the senior sociology student to develop and carry out an individual project subject to the permission of an advisor and the department chairperson. Meetings arranged by the student and advisor. Prior department approval required.

sec. no. 1905

**S.W. 2900 Introduction to Social Work (3)**

An historical overview of the societal patterns of dealing with man's problems, from ancient to modern times, as reflections of changing values, institutions, and philosophies.

Prerequisite: Soc. 1100 or permission of instructor.

†sec. no. 1907/Metrey/8:30-11:50 a.m.

**S.W. 3900 Contemporary Social Policy and Services (3)**

Study of current welfare programs in relation to the policies and provisions required to meet the various social needs of the people in this and other countries. Field observations of selected community helping programs. Students are encouraged to take both S.W. 2900 and S.W. 3900.

‡sec. no. 1910/Metrey/8:30-11:50 a.m.

**S.W. 4990 Independent Study in Social Work (3)**

Individual student's involvement in a project or readings; unique learning opportunity for the student who can proceed in educational growth at his/her own pace.

Prerequisites: S.W. 2052, 3953 and permission of instructor and department chairperson.

sec. no. 1911

**Sp. 1101 Elementary Spanish I (3)**

Designed to enable the student to achieve a ready comprehension of spoken Spanish, an ability to express himself in clear simple sentences, and considerable ease in reading Spanish. Credit given only upon completion of both semesters.

†sec. no. 1914/8:30 a.m.-1:10 p.m.

**Sp. 1102 Elementary Spanish II (3)**

A continuation of Sp. 1101. Credit given only upon completion of both semesters.

‡sec. no. 1917/8:30 a.m.-1:10 p.m.

**Sp. 2101 Intermediate Spanish I (3)**

Designed to expand the student's competence and fluency in speaking, understanding, reading and writing Spanish, and to acquaint the student with Spain and the Spanish way of life. Credit given only upon completion of both semesters.

Prerequisite: Sp. 1102 or permission of the instructor.

†sec. no. 1920/8:30 a.m.-1:10 p.m.

**Sp. 2102 Intermediate Spanish II (3)**

A continuation of Sp. 2101. Credit given only upon completion of both semesters.

Prerequisite: Sp. 1102 or permission of the instructor.

‡sec. no. 1923/8:30 a.m.-1:10 p.m.

**Sp. 3100 Advanced Spanish Composition (3)**

An intensive review of grammar and study of the problems of written composition in the Spanish language.

Prerequisite: Sp. 2102 or permission of the instructor.

‡sec. no. 1926/8:30 a.m.-1:10 p.m.

**Sp. 3105 Advanced Spanish Conversation (3)**

Intensive concentration in vocabulary building, pronunciation, diction, phonetics, through oral discussions. Not open to native speakers.

Prerequisite: Sp. 2102 or permission of the instructor.

†sec. no. 1929/8:30 a.m.-1:10 p.m.

**Sp. 4425 Essay in Spanish-American Literature (3)**

A study of this genre from its beginning to the present, through the analysis of representative authors. Course conducted in Spanish.

Prerequisite: Sp. 2102 or permission of the instructor.

\* sec. no. 1931/5:45-7:50 p.m.

**Sp. 4500 Cervantes (3)**

In-depth study and analysis of the literary techniques of Cervantes and of his most representative works. Course conducted in Spanish.

Prerequisite: Sp. 2102 or permission of the instructor.

\* sec. no. 1933/8:00-10:05 p.m.

**Sp. Ed. 2051 Introduction to Education of the Handicapped (3)**

Early detection and proper care of all disabilities are considered in this course. Etiology, diagnosis and prognosis, different treatments and remedial procedures and their educational implications; basic educational procedures for the various disabilities. Visitations are made to observe programs for the mentally and physically handicapped.

sec. no. 1938/Gens/8:30-10:05 a.m.

sec. no. 1939/Berson/10:15-11:50 a.m.

\* sec. no. 1940/Edwards/5:45-7:50 p.m.



**Sp. Ed. 2052 Introduction to Psychology of the Handicapped (3)**

The psychology of all types of disabilities, mental and physical. The degrees of retardation, their causes and the concomitant disorders of behavior. The emotional and social adjustment of the physically handicapped. The psychological basis for appropriate education and care of all types of handicaps.

sec. no. 1944/Van Atta/8:30-10:05 a.m.

**Sp. Ed. 2154 Introduction to Mental Retardation (3)**

Emphasis placed on physical, emotional and social characteristics of the mentally retarded. Identification, diagnosis and treatment of the mentally retarded included. Each student expected to spend a minimum of 20 hours in observation and participation in a program for the mentally retarded.

Prerequisite: Sp. Ed. 2051.

sec. no. 1947/Van Atta/10:15-11:50 a.m.

**Sp. Ed. 2251 Speech Correction (3)**

An orientation course for all classroom teachers and the basic course for speech and hearing majors. It presents an introduction to the field of speech pathology with emphasis on the recognition and treatment of speech disorders in school children.

sec. no. 1950/Gens/10:15-11:50 a.m.

**Sp. Ed. 4053 Orientation in Psychological Testing (3)**

An overview of clinical tests. An introduction to the way tests are constructed and validated. Practice in the administration of a few tests under supervision to provide familiarity with the behavior of individuals, especially the mentally handicapped, in test situations.

\* sec. no. 1957/Edwards/8:00-10:05 p.m.

**Sp. Ed. 4134 Student Teaching (8)**

Experience in full time teaching in a public school under the guidance and direction of a cooperating teacher and a college supervisor. Location Woodbridge State School.

Prerequisites: Sp. Ed. 3153 and 3154 and permission of department.

sec. no. 1959/Bilowit/Time to be arranged

**Sp. Ed. 4151 Introduction to Arts and Crafts for Mentally Retarded (3)**

Meaningful and interesting manual activities for sequential skill development. Projects are with wood, leather, plastics, metal, ceramics, basketry, cardboard and weaving.

sec. no. 1961/10:15-11:50 a.m.

**S.T.M. 1900 Speech (3)**

Various aspects of speaking and listening; the development of effective voice and speech habits, with practice in public speaking, parliamentary procedure and oral reading.

sec. no. 1965/8:30-10:05 a.m.

sec. no. 1966/10:15-11:50 a.m.

sec. no. 1967/Harper/12:00 noon-1:35 p.m.

\* sec. no. 1968/Lumsden/5:45-7:50 p.m.

\* sec. no. 1969/Remmers/8:00-10:05 p.m.

**S.T.M. 2920 (Eng. 1920) Introduction to the Theatre (3)**

A basic survey of the art and craft of the theatre.

sec. no. 1973/Fry/10:15-11:50 a.m.

**S.T.M. 2925 (Eng. 1940) Technical Theatre Production (3)**

An introduction to the basic elements of scenery, costuming, make-up, sound and lighting.

sec. no. 1975/Harper/8:30-10:05 a.m.

**S.T.M. 2960 (Eng. 1930) Acting I (3)**

A study of the development of acting as an art form with practice in theories and techniques, including some work in characterization.

sec. no. 1978/12:00 noon-1:35 p.m.

**S.T.M. 2975 Introduction to Mass Media (3)**

The effects of mass media in American society and the development of taste for the popular arts.

Prerequisite: S.T.M. 1900.

\* sec. no. 1980/Remmers/5:45-7:50 p.m.

**S.T.M. 3910 Oral Interpretation (3)**

Instruction and practice in the oral interpretation of literature.

sec. no. 1983/Dunn/8:30-10:05 a.m.

**S.T.M. 3935 Creative Drama (3)**

Exploration of the creative process, involving use of body movement, color, sound, light, space and language.

sec. no. 1986/Dunn/10:15-11:50 a.m.

**S.T.M. 3950 The Art of Persuasion (3)**

Examination of the nature of persuasion in human interaction situations.

\* sec. no. 1990/Lumsden/8:00-10:05 p.m.

**S.T.M. 4910 Practical Experiences in Contemporary London Theatre**

sec. no. 1993/see page 18.

**S.T.M. 4940 History of the Theatre (3)**

Theatrical production from early primitive rituals down the centuries to today's theatre. Emphasis placed on directors, actors and theorists.

sec. no. 1996/Fry/12:00 noon-1:35 p.m.





# GRADUATE AND UNDERGRADUATE COURSES AT BROOKDALE COMMUNITY COLLEGE SUMMER SESSION JUNE 28-AUGUST 5

Classes meet Monday, Tuesday and Thursday evenings. Please check the class time in each course listing.

## Graduate

Educational Policy Sciences

### **E.P.S. 5135 Management of Educational Finances and Resources (3)**

Investigates the economics and financial structures of public education in America and in New Jersey. Analysis funding theories and statutes and budgetary procedures, (PPBES) Planning, Programming, Budgeting, Evaluation Systems. Income and cost forecasting, facility planning, PERT/CPM and other educational operations research techniques.

Prerequisites: One course in organizational theory  
sec. no. 4010/5:45-7:50 p.m.

Interdisciplinary

### **I.D. 5600 Seminar on New Jersey: Special Emphasis on the Bicentennial (3)**

Examination of the content, methods and materials for teaching about New Jersey. Multidisciplinary contemporary topics will be treated with special emphasis on the significance for the Bicentennial.

sec. no. 4011/Resnick/5:45-7:50 p.m.

Psychology

### **Psy. 5110 The Developmental Study of Children (3)**

Advanced course offering a critical analysis of an investigation into the nature of human development. Designed to develop a mature understanding of how to work effectively with children in contemporary society, including its schools. The importance of the development of empathy and empathic relationships.

sec. no. 4012/Darmstadt/8:00-10:05 p.m.

### **Psy. 5230 Tests and Measurements (3)**

The principles of measurement underlying test construction and use. The aims of testing, and understanding of basic statistical procedures, problems of test administration, scoring and interpretation and the importance of test reliability, validity, norms and research. The range of tests currently available and the planning of testing programs.

Prerequisite: Psy. 3200 Psychological Statistics or Math. 5500 or permission of instructor.

sec. no. 4013/Asher/5:45-7:50 p.m.

### **Psy. 5510 Theories of Personality (3)**

Various systematized conceptualizations of personality theories. Psychoanalytic theories of personality, field theory, learning theories, phenomenological and existential theories of personality. Each theoretical orientation applied to personality and behavioral assessment in practical living and professional relationships. Not open to students who have completed a basic course in personality theory.

sec. no. 4014/Singer/8:00-10:05 p.m.

## Undergraduate

Philosophy

### **Phil. 2410 Philosophy of Religion (3)**

The philosophical basis of the major Western religions. Attention is given to traditional proofs of God's existence, the problem of evil, the relation between science and religion, and the significance of contemporary Death-of-God theology.

Prerequisite: 3 semester hours in philosophy or permission of instructor.

sec. no. /4020/5:45-7:30 p.m.





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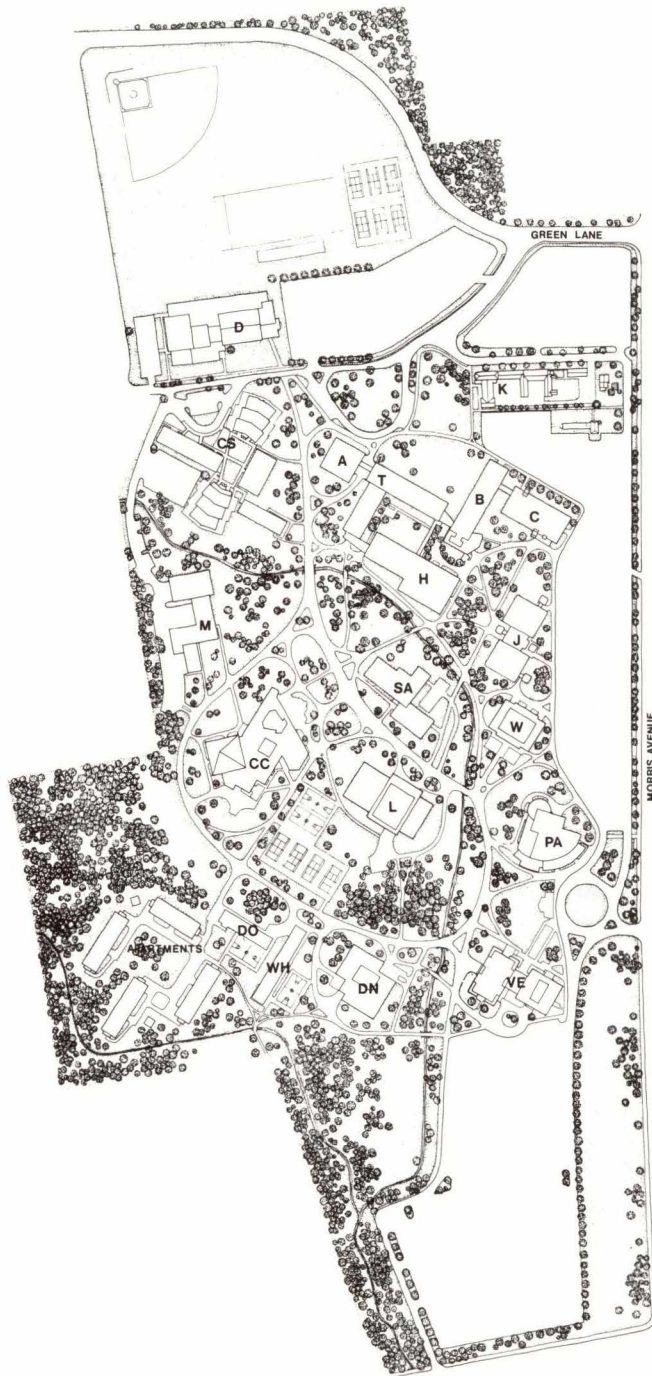
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## MAP OF UNION CAMPUS

- A Administration Building
- B Bruce Hall
- C Science Building
- D D'Angola Gymnasium
- H Industrial Studies
- J Hutchinson Hall
- K Kean Buildings
- L Nancy Thompson Library
- M Maintenance Warehouse
- T Townsend Hall
- W Willis Hall
- CC College Center
- CS Campus School
- DN Downs Hall
- DO Dougall Hall
- PA Wilkins Theatre
- SA Student Activities Building
- VE Vaughn-Eames Hall
- WH Whiteman Hall



## DIRECTIONS TO THE UNION CAMPUS

### From US ROUTE 22:

A—EASTBOUND: Drive under Parkway, turn right onto Route 82 East. Continue toward Elizabeth. Campus is within 2 miles.

B—WESTBOUND: Drive under Parkway, keep right and follow signs to Elizabeth. Turn right on Morris Avenue.

### From GARDEN STATE PARKWAY:

C—NORTHBOUND: Leave Parkway at Exit 140 onto Route 22 East. Turn right onto Route 82 East.

D—SOUTHBOUND: Leave Parkway at Exit 140-A onto Route 22 West. Turn right onto Route 82 East.

### From US ROUTES 1-9:

E—NORTHBOUND: Enter Elizabeth and turn left through traffic circle onto Route 439 West (Elmora Avenue). Continue to Morris Avenue (Route 82). Campus is on the left.

F—SOUTHBOUND: Enter Elizabeth. Follow signs to North Avenue. Turn right onto North Avenue (Route 439) and continue to Route 82 (Morris Avenue). Turn right. Campus is on left.

### From NEW JERSEY TURNPIKE:

G—NORTHBOUND: Leave Turnpike at Exit 11 for Garden State Parkway, North. Leave Parkway at Exit 140 onto Route 22 East. Turn right onto Route 82 East. Follow right hand lane for local traffic.

H—SOUTHBOUND: Leave Turnpike at Exit 14 for Route 1-9, South. Enter Elizabeth. Follow signs to North Avenue. Turn right onto North Avenue (Route 439) and continue to Route 82 (Morris Avenue). Turn right Campus is on left.

### By TRAIN:

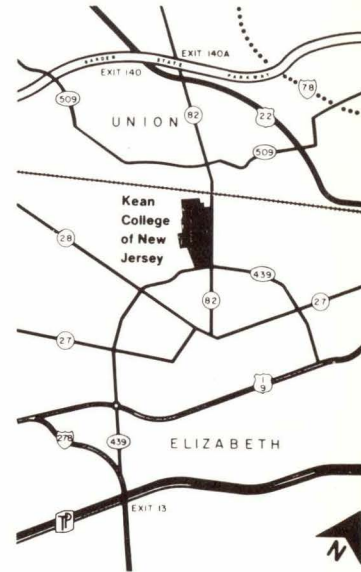
The PENN-CENTRAL STATION at Elizabeth is 2 miles from Campus by bus or taxi.

### By BUS:

PUBLIC SERVICE #8 between Elizabeth and Springfield passes the Campus on Morris Avenue.

ELIZABETH-Union-Hillside-Irvington #6 between Elizabeth and Irvington Center passes the campus on Morris Avenue.

SOMERSET BUS CO. #143 between Plainfield and Times Square, New York stops at Salem Road and Morris Avenue.





Kean College of New Jersey  
Union, New Jersey 07083  
Equal Opportunity Institution

Photographs courtesy of:  
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