1969 SUMMER SESSION CALENDAR

*PRE-SESSION: June 9-June 27
REGULAR SESSION: June 30-August 8

Pre-Registration (Graduate and Undergraduate Courses)
May 5-16 (Monday-Friday) 9:00 A.M.-12:00 Noon, 1:00 P.M.-4:00 P.M.
Tuesdays and Thursdays, 6:00 P.M.-7:30 P.M.
Graduate Program advisers are available by appointment only during the pre-registration period.

Mail Registration
**May 7-14 Undergraduate courses only

Registration and Advisement (Graduate Courses)
June 20 (Friday) — 5:00 P.M.- 8:00 P.M.
June 21 (Saturday) — 9:00 A.M.-12:00 Noon
June 23 (Monday) — 9:00 A.M.-12:00 Noon
1:00 P.M.- 4:00 P.M.
6:00 P.M.- 8:00 P.M.
Graduate registration for matriculated students and students applying for matriculation to a Graduate program at Trenton State College.
Graduate registration for students not enrolled in a graduate program at Trenton State College.

Registration (Undergraduate Courses)
June 21 (Saturday) — 9:00 A.M.-12:00 Noon
June 23 (Monday) — 9:00 A.M.-12:00 Noon
1:00 P.M.- 4:00 P.M.
6:00 P.M.- 8:00 P.M.

***June 25, 26, 27, 30 Late registration and program changes: $5.00 fee applies
10:00-12:00 Noon
1:00- 3:30 P.M.

June 30 Classes begin

July 4 (Friday) Holiday—no class sessions

July 21-August 1 Pre-registration for fall undergraduate and graduate courses offered by the Field Services Division

August 8 Last day of classes for the regular session

* Registration for pre-session courses must be completed during the May 5-16 pre-registration period.

** Mail registration completed incorrectly or received after May 15 will be returned.

*** Course changes may be made only during this period.

INFORMATION IN THIS BULLETIN IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE
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MEMBERS OF THE TRENTON STATE COLLEGE BOARD OF TRUSTEES

<table>
<thead>
<tr>
<th>Member</th>
<th>Address</th>
<th>Term Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR. FREDERICK ROSI, Chairman</td>
<td>Princeton</td>
<td>1968</td>
</tr>
<tr>
<td>MR. THOMAS BOWEN</td>
<td>Salem</td>
<td>1970</td>
</tr>
<tr>
<td>MR. CHARLES E. FARRINGTON,</td>
<td>Princeton</td>
<td>1970</td>
</tr>
<tr>
<td>Vice Chairman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MRS. EVELYN FIELD</td>
<td>Somerville</td>
<td>1968</td>
</tr>
<tr>
<td>MR. JAMES HOWARD</td>
<td>Blairstown</td>
<td>1969</td>
</tr>
<tr>
<td>MR. MARTIN MARGOLIT</td>
<td>Cinnaminson</td>
<td>1973</td>
</tr>
<tr>
<td>MR. MINOT MORGAN</td>
<td>Princeton</td>
<td>1971</td>
</tr>
<tr>
<td>MR. DAVID TAYLOR</td>
<td>Moorestown</td>
<td>1972</td>
</tr>
<tr>
<td>DR. LEONORE VAUGHN-EAMES</td>
<td>Stockton</td>
<td>1969</td>
</tr>
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COLLEGE ADMINISTRATION

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>DR. ROBERT HEUSSLER</td>
<td>President</td>
</tr>
<tr>
<td>DR. GERARD S. WEISSMAN</td>
<td>Vice-President for Academic Affairs</td>
</tr>
<tr>
<td>DR. JAMES J. FORCINA</td>
<td>Vice-President for Administrative Affairs</td>
</tr>
<tr>
<td>DR. LEON DURKIN</td>
<td>Assistant to the President</td>
</tr>
<tr>
<td>DR. CLAYTON R. BROWER</td>
<td>Dean of Educational Services</td>
</tr>
<tr>
<td>DR. JERE D. PADACK</td>
<td>Dean of Student Personnel Services</td>
</tr>
<tr>
<td>DR. WADE C. CURRY</td>
<td>Associate Dean of Instruction</td>
</tr>
<tr>
<td>DR. DOROTHY G. PETERSEN</td>
<td>Chairman, Graduate Study</td>
</tr>
<tr>
<td>DR. GEORGE H. KRABLIN</td>
<td>Associate Chairman, Graduate Study</td>
</tr>
<tr>
<td>MR. PAUL H. ANDERSON</td>
<td>Registrar</td>
</tr>
<tr>
<td>DR. BERNARD A. REED</td>
<td>Director of Admissions</td>
</tr>
<tr>
<td>DR. MICHAEL S. KLINE</td>
<td>Director of Student Teaching Placement, and Follow-up</td>
</tr>
<tr>
<td>DR. LEO MANN</td>
<td>Director of Field Services</td>
</tr>
<tr>
<td>MR. THOMAS R. KINTER</td>
<td>Director of Business Services</td>
</tr>
<tr>
<td>MR. ERNEST E. RYDELL</td>
<td>Coordinator of Public Relations</td>
</tr>
<tr>
<td>MR. RICHARD WARNER</td>
<td>Coordinator of Laboratory Experiences</td>
</tr>
</tbody>
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SUMMER SESSION STAFF

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>LEO L. MANN</td>
<td>Director</td>
</tr>
<tr>
<td>DONN R. HERRING</td>
<td>Assistant Director</td>
</tr>
<tr>
<td>CARL A. KREDATUS</td>
<td>Assistant Director</td>
</tr>
<tr>
<td>SIDNEY O. MURDOCK</td>
<td>Assistant Director</td>
</tr>
<tr>
<td>EDITH G. GARRISON</td>
<td>Academic Counselor</td>
</tr>
<tr>
<td>NANCY J. SHRIVER</td>
<td>Academic Counselor</td>
</tr>
</tbody>
</table>
Trenton State College is an accredited coeducational institution which is outstanding in the combination of location and educational advantages it offers. Located on a two-hundred-acre campus in suburban Ewing Township, the college is four miles north of Trenton, the capital of New Jersey. The convenience of major highways and public transportation is available, but the rambling, wooded campus with its two lakes, provides a rustic country setting for a college community.

Its proximity to the metropolitan areas of Philadelphia and New York; historic Bucks County, Pennsylvania; and the varied attractions of the greater Delaware Valley; provides students and faculty with a wealth of cultural opportunities. Recreational facilities nearby include picturesque Washington's Crossing State Park, two public golf courses, a county ski area, and the famed Jersey shore, only an hour's drive across the Garden State.

The college is located on Route 31 (Pennington Road). Highways leading into the area include Route 206 and Route 1, both within five miles of the campus. Bus service on Pennington Road enables students to travel into Trenton easily where connections can be made on the main line of the Pennsylvania Railroad or with bus transportation serving many sections of the state. Mercer County Airport is located within a five-minute drive of the campus.

HISTORY OF THE COLLEGE

From 1839 to 1855 eight normal schools were established in Massachusetts, New York, Connecticut, Rhode Island, and Michigan. Trenton State College was established as the New Jersey State Normal and Model School by legislative act in 1855, thus making it the ninth to be founded in the nation.

Established as part of the state school system to furnish well-prepared teachers, the original normal and model school was situated on North Clinton Avenue in Trenton.

Throughout the nineteenth century, Trenton prepared students for elementary school teaching, but specialized curricula in physical education, industrial arts, music, and commercial subjects were organized early in the twentieth century. A program to educate secondary teachers was offered in 1925 when the college was authorized to grant the Bachelor of Science Degree. The first B.S. degree was granted in 1926 and in 1929 elementary and kindergarten-primary majors could pursue a fourth year leading to this degree.

Several changes in name have taken place, beginning in 1929 with State Teachers College and Normal School at Trenton. In 1937 the name was changed to New Jersey State Teachers College at Trenton, then Trenton State Teachers College, and in 1958 it became Trenton State College.

A most significant milestone in the 114-year history of the college occurred between 1930 and 1936 when it was moved to the present Hillwood Lakes campus in Ewing Township. Colonial Style buildings constructed during that period included five residence halls, Green Hall, Kendall Hall, the Library, the Physical Education Building, and the power house.

With increased emphasis on advanced education for teachers, the college offered its first masters degree in 1951. As additional undergraduate programs were added to the curriculum, the graduate offerings expanded and a Master of Arts degree was authorized.
Centennial Hall, a residence for women, and Phelps Hall, a food service facility, were dedicated in 1955. A reorganization of the undergraduate curriculum was authorized in 1956 and the college began granting the Bachelor of Arts degree instead of the B.S. in 1960. This marked the advent of an expansion of facilities that has enabled the college to triple its full-time enrollment to approximately 4,300. The college also enrolls more than 5,000 students in the evening in courses on campus and at several off-campus locations.

With teacher education continuing as the focus, the college recognizes the great need for personnel in other professions and the desire of some students for a liberal arts education. Therefore, in 1965 this college was authorized to offer a baccalaureate degree in nursing and in the liberal arts. Freshmen entered these academic programs for the first time in September, 1966.

CAMPUS BUILDINGS

GREEN HALL is the administration building with offices on the first floor for the President, the Deans, Student Personnel Services, Admissions, Registrar, Field Services, Graduate Study, Public Information, and Student Teaching and Placement. The Business Office, Traffic Office, a Data Processing Center, art studios, and offices for the departments of art, are located on the basement level. General classrooms, business education laboratories, offices for the departments of education, business education, distributive education, and the Alumni Affairs Office occupy the third floor of Green Hall.

KENDALL HALL, recently redecorated and refurnished with comfortable seats, provides the largest auditorium on the campus. To the right of the large auditorium is a small auditorium which is used for classes, workshops, and programs. Offices and classrooms for the speech department are housed in this building and construction has begun on a new studio for WTSR-FM, making this facility the campus center for cultural programs, many of which are available to the community.

PACKER HALL accommodates the health and physical education department while also serving as the facility for varsity and intramural athletics. A new gymnasium with seating for 1,600 can be divided for classes, but an older gym also is available as a teaching station. The college pool is located on the north side of the building which also houses a modern dance studio, a physical training room, classrooms, locker rooms, and offices.

ARMSTRONG HALL is one of the most complete industrial education facilities in the East. Laboratories and classrooms provide opportunities for students to learn graphic arts, power mechanics, general crafts, electronics, design, and wood crafts among other subjects. This building currently houses the College Press and the technical equipment for WTSR-FM, the campus radio station which broadcasts to the community.

PHELPS HALL, constructed in 1955, is a food service building which provides the largest dining room on campus with seating available for 800 if needed. At the rear of this building is a faculty lounge and faculty dining room in addition to three private dining rooms that are used for banquets. Alumni Lounge, on the south side, is used as an art gallery and for special meetings.

Two wings on the building provide a snack bar, rooms for student government and student publications, and offices for the counseling staff and residence programs.

THE HUB, along with Phelps Hall, serves as The College Union. Formerly a building for the industrial arts department, this student center is designed to provide out-of-class activities for the students' personal, social, and cultural development. Facilities in THE HUB include lounges, recreation areas, seminar rooms, snack area, a game room equipped for ping-pong, shuffleboard, billiards, and a TV area. THE HUB, which was converted and equipped by students and faculty, also houses offices for student activities, college union personnel, and the calendar office.
ALUMNI CHAPEL of modern design was presented to the college by the alumni association in 1960. It serves all students, regardless of denomination, who wish a quiet place for contemplative meditation.

BRAY HALL, in which Music Department activities are centered, was completed in 1963. It features a recital hall, a rehearsal hall, individual practice rooms, classrooms, music library and a record listening room, as well as faculty offices.

The SCIENCE-MATH BUILDING was completed in 1963. A planetarium, a lecture hall, science laboratories and classrooms of various sizes are included in this three-story structure.

A CHILD STUDY AND DEMONSTRATION CENTER, Operation Insight, is located in a frame building overlooking Lake Ceva. This Center was established in 1966 by a successful Ewing Township application for funds from Title III of the Elementary and Secondary Education Act with the cooperation of Mercer County public school systems and Trenton State College. It features a full clinic staff and video-tape recording equipment, serving as a pre-service and in-service training center for teachers.

RESIDENCE HALL facilities for men include Bliss Hall and Ely House. Residence facilities for women include Allen, Brewster, Norsworthy, Centennial, Cromwell and Decker Halls. Decker Hall is a six-story structure for 300 women and features lounges, dining rooms and guest rooms. Cromwell Hall which opened in the fall of 1967 houses 300 women and features a large lounge and conference rooms. A 500-student residence hall with food service and student lounge facilities is planned.

A FOUR-STORY EDUCATIONAL CENTER, featuring three lecture halls, an instructional media center, child study clinic, classrooms of various sizes, seminar rooms and more than 100 faculty offices will be completed in 1970.

THE COLLEGE LIBRARY. The college library is housed in a beautiful building erected in 1931. It was renamed Roscoe L. West Library in June 1957, to honor President West at the time of his retirement and to recognize his special interest in the development of the library.

Under the College Bond Issue of 1959 funds were provided to permit a remodeling of the building to assure the growing institution of sufficient library facilities. This remodeling operation formed the first step in the whole college building program and was completed in February 1961.

In recent years the urgent need for further expansion of the library facilities became evident. In 1966 the State of New Jersey set aside $2,100,000 to finance construction of a large library annex. The annex will triple the present seating capacity to about 1,500 including many individual carrels, and double the stack space to accommodate 300,000 volumes. The entire library complex will be air conditioned. Completion of the annex is expected in 1968-69.

In every sense, the library occupies a central position in the life of the college. The services and facilities of the library are vital for carrying out the aims of the institution. The library serves as a major resource for all college courses and provides the essential literature for graduate work in various areas. For all these reasons, the per capita circulation of books and other reading materials is very high.

Twelve professional librarians and other assistants are ready to help faculty members and students in the use of the total collection of approximately 150,000 volumes. It includes an exceptionally rich and up-to-date reference collection of more than 12,000 volumes in the Horace Mann Room and adjacent John F. Kennedy Room. Systematic efforts have been made in recent years to acquire works of the highest quality in the areas represented in the curriculum and to give Trenton one of the strongest college library collections in the State. The library subscribes to more than a dozen daily newspapers and receives about 1,000 magazines, indexes, and services; there are 12,000 bound periodical
volumes. The library maintains a file of pamphlets, clippings, and pictures amounting to approximately 20,000 items. The collection of filmstrips exceeds 800. More than 3,000 carefully selected records in the fields of music, drama, poetry, and foreign languages are available for listening in the library and for outside loan. A high-fidelity record player may be used by individuals and classes in the listening room. The library has several microfilm and microprint readers and provides the New York Times on microfilm beginning with its first issue in 1851.

The library has been the beneficiary of the extraordinary generosity of the late Charles A. Philhower '02, and of his late wife, Alice Edna Haynes Philhower '00. They gave to the library a collection of almost one thousand rare books, primarily on the history of New Jersey, thereby adding greatly to the strength of the special collection in that field which the staff had built up over the years. Thanks to the munificence of Mr. Sol Feinstone of Washington Crossing, Pa., the library is developing a collection of manuscripts and documents on the Revolution of 1776. The library possesses also a collection on the history of American education, containing many old and rare titles.

WIDE RESOURCES

A particular effort is made to acquire the best in children's literature and a representative cross-section of modern elementary and secondary textbooks. In June 1957, the student body established the Roscoe L. West Book Fund, which now amounts to $5,190. This fund is used to acquire works of enduring value; the first three purchases were Arnold J. Toynbee's famous twelve-volume set "A Study of History," Thomas Jefferson's "Papers," and Abraham Lincoln's "Collected Works," in the most recent scholarly editions. Other major acquisitions from the fund include the Variorium edition of Edmund Spenser's writings, the new editions of Alexander Hamilton's and James Madison's Papers, Walt Whitman's "Collected Writings," the Encyclopedia of Philosophy, the revised Encyclopedia of Islam, and several other landmarks in the field of comparative religion. The library has also received many other significant gifts in recent years; e.g., a generous donation from the Student Executive Board in memory of President John F. Kennedy which has been used for major purchases in the field of American history. The Newman Club recently enabled the library to acquire the New Catholic Encyclopedia.

All these resources are accessible to faculty and students during the regular hours; service is given 88 1/2 hours per week. The "open stacks" system is designed to encourage the habit of using books freely. Self-education, lying beyond the limits of classroom teaching and specific assignments, depends largely on the extensive and discriminating reading of thought-provoking books. Today's student who wants to meet current professional demands and to be a leader in his community must be aware of all available library resources and be able to explore them intelligently. With this purpose in mind, the library staff carries out a comprehensive instructional program which introduces students to the effective use of the collection. As a part of Freshman Orientation, several carefully planned meetings with staff members provide a good start for students in developing needed skills in library use. Prior to student teaching, library staff members meet students to instruct them in additional reference tools when needed. Staff members also give lectures to classes whenever instructors request them. A senior member of the staff teaches regularly the course on bibliography and research methods for graduate students. The library pays ever-increasing attention to their specific demands. The bibliographic facilities include, e.g., the catalog of the Library of Congress with its five-year author and subject supplements.

Constant efforts are made to stimulate browsing and to broaden and deepen reading interests. Comfortable places have been arranged in the library for leisurely reading. Displays are frequently changed to arouse interest and supply information on timely topics. The library regularly issues lists of new accessions and frequently other reading lists, among them comprehensive annotated bibliographies on timely topics.
Trenton State College offers a four-year curriculum in teacher education leading to the degree of Bachelor of Arts and certification to teach. The college prepares teachers for kindergarten-primary and elementary school grades; secondary school fields of English, mathematics, science, social studies and speech arts; and for the specialized areas of business education, distributive education, health and physical education, health education, industrial education and technology, music, speech correction, special education of the mentally retarded and of the deaf, and teacher-librarian.

The college also offers Bachelor of Arts degrees to graduates of curriculum in nursing and in liberal arts, with majors available in art, English, mathematics, history, and psychology.

Fifth-year programs lead to the degrees of Master of Arts and Master of Arts in Teaching (see the Graduate Bulletin).

STATEMENT OF PURPOSE

Trenton State College is multi-purpose, with responsibility to maintain an educational program that will:

1. Provide a broad general education.
2. Provide functional knowledge of the subject matter in the student’s field.
3. Develop personal social qualities in the student which will enable him to fit into the community and exercise a position of leadership.
4. Help the student realize that education is an ongoing process and to encourage his improvement in his profession.
5. Develop, in future teachers, a command of the knowledge of children and skills and techniques in the teaching process.

ACCREDITATION

Trenton State College is fully accredited by the New Jersey State Board of Education, the Middle States Association of Colleges and Secondary Schools and the National Council for Accreditation in Teacher Education.

It holds membership in the American Association of Colleges for Teacher Education, the American Association of University Women, the Association of State Colleges and Universities, the International Council on Education for Teaching, the Middle States Association of Colleges and Secondary Schools, the National Council for Accreditation of Teacher Education, the New Jersey Association of Colleges and Universities, and the One Hundred Year Association of New Jersey, Inc.
ADMISSION

Enrollment in the Summer Session is open to:
1. High school graduates
2. Holders of high school equivalency certificates
3. Students attending other colleges and universities
4. College graduates.

Students interested in registering for graduate courses must first complete Form G500b, Application for Admission to Graduate Study. This form and other information relating to graduate work may be obtained from the Office of Graduate Study.

Enrollment in the Summer Session does not guarantee matriculation for any degree offered by the college.

REGISTRATION

Registration for undergraduate courses may be accomplished either in person at Green Hall or by mail. Registration for graduate courses must be done in person. Registration dates are listed in the front of the catalog. Complete payment of tuition and fees is required at the time of registration.

Students wishing to register by mail should:

a. Detach registration card (X-100) from back of this catalog.

b. Complete both sides of registration card accurately including class number, course number, title, semester hours, time, day, and location. Please include zip code with your address.

c. Enclose check or money order payable to Trenton State College for the exact amount of tuition and fees. Upon receipt of registration card and remittance a class admission card will be mailed to the student. The class admission card must be submitted to the instructor at the first class meeting.

Mail registrations received after the close of the mail registration period will be returned.

d. Mail the registration card to the Summer School Office, Trenton State College, Trenton, New Jersey 08625.

LATE REGISTRATION

Students registering during the late registration period must pay a $5.00 late fee.

CLASS SCHEDULE

June 30 to August 8

Morning classes meet daily Monday through Friday.

<table>
<thead>
<tr>
<th>Period</th>
<th>Time</th>
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<tbody>
<tr>
<td>Period 1</td>
<td>8:30 to 9:50</td>
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<tr>
<td>Period 2</td>
<td>10:00 to 11:20</td>
</tr>
<tr>
<td>Period 3</td>
<td>11:30 to 12:50</td>
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</tbody>
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Evening classes meet Monday, Tuesday, and Thursday. Evening class periods normally run from 5:15 to 7:30, and 7:45 to 10:00.

Graduate music courses normally meet as follows:

<table>
<thead>
<tr>
<th>Period</th>
<th>Time</th>
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<tbody>
<tr>
<td>Period 1</td>
<td>8:30 to 9:20</td>
</tr>
<tr>
<td>Period 2</td>
<td>9:30 to 10:20</td>
</tr>
<tr>
<td>Period 3</td>
<td>10:30 to 11:20</td>
</tr>
<tr>
<td>Period 4</td>
<td>11:30 to 12:20</td>
</tr>
</tbody>
</table>
COURSE PREREQUISITES

Students are not permitted to register for courses unless they have completed the required prerequisites.

COURSE CANCELLATION

The college reserves the right to close registration for courses without previous announcement, to cancel any courses for which there are not sufficient registrations, and to assign or reassign instructors as needed.

COURSE NUMBERING

A course numbering system has been developed for all courses in the various departments and curricula. Courses are numbered in the following manner:

100.—Freshmen
200.—Sophomore
300.—Junior
400.—Senior
500.—Graduate (or Seniors with permission)
600.—Graduate Only

Graduate students may make their course selection from courses numbered in the 500 and 600 series only. With written permission of the advisor, graduate students may select a maximum of six semester hours from courses numbered in the 300 and 400 series.

Each department has a code number assigned.

Art .................................................. 10
Business Education ............................... 11
Economics ......................................... 12
Education ......................................... 13
English ............................................. 14
Geography .......................................... 15
Political Science ................................. 16
Health and Physical Education .................. 17
History ............................................ 18
Industrial Education and Technology .......... 19
Library Science .................................... 20
Mathematics ....................................... 21
Modern Languages ............................... 22
Music ................................................ 23
Philosophy ......................................... 24
Psychology ......................................... 25
Science ............................................. 26
Sociology .......................................... 27
Speech .............................................. 28
Special Education ................................. 29
Distributive Education ........................... 31
Interdisciplinary ................................. 50
International Studies ............................ 60
The following rates are in effect:

| Undergraduate | $20.00 per semester hour |
| Graduate      | 25.00 per semester hour |

Tuition is computed by multiplying cost per semester hour credit by total number of semester hours and adding the $2.00 registration fee.

Students must make payment of tuition and fees at the time of registration by check, money order or cash. Checks and money orders are to be made payable to Trenton State College.

$5.00 Late registration fee to be paid by students who register during late registration period.

$5.00 Payable only by check or money order, fee for application for matriculation in undergraduate or graduate programs. Students who change their curriculum major, thereby requiring a reevaluation of records, must pay an additional $5.00 fee.

$30.00 Fee for students who register for 413.96, Seminar in Supervised Teaching in Health Education or 413.03, Student Teaching in Health Education for School Nursing Students.

$60.00 Fee to be paid by students who register for 413.97, Seminar in Supervised Teaching or 413.04 Internship.

Courses listed as “Private Applied Study” carry a minimum fee of $110.00. This fee covers 15 private lessons with an “Artist-Teacher” for two semester hours credit. Some of these Artist-Teachers listed have an established fee in excess of $110.00. In order to keep the fee consistent with the personal policy of each Artist-Teacher, Private Applied Study will, on occasion, exceed the minimum of $110.00.

WITHDRAWAL FROM COURSES AND REFUND OF TUITION

The following schedule of tuition refunds for withdrawal from Summer School Courses is in effect. Refunds will be computed based on the date the withdrawal request reaches the Summer School Office.

<table>
<thead>
<tr>
<th>Withdrawal Period</th>
<th>Tuition</th>
<th>Service Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Withdrawal before Summer Session begins (Before June 30)</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Withdrawal during the first third of Summer Session (Between June 30 and July 12)</td>
<td>60%</td>
<td>60%</td>
</tr>
<tr>
<td>Withdrawal between first third and first half of Summer Session (Between July 13 and July 19)</td>
<td>30%</td>
<td>30%</td>
</tr>
<tr>
<td>Withdrawal during last half of course (From July 20 on)</td>
<td>None</td>
<td>None</td>
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A STUDENT WHO WITHDRAWS FROM A COURSE MUST GIVE WRITTEN NOTICE OF WITHDRAWAL TO THE DIRECTOR OF THE SUMMER SESSION. STUDENTS WHO NEGLECT TO FOLLOW THIS PROCEDURE WILL RECEIVE A FAILING MARK FOR THE COURSE OR COURSES WHICH THEY CEASE TO ATTEND.

CHANGE IN PROGRAM

Changes in courses can be made only during the late registration period. Course changes will be subject to the late registration fee.
ATTENDANCE

Students are presumed to have a seriousness of purpose toward college work and toward their professional objective. They are expected to attend all class sessions of courses for which they are registered.

Absence from class is sometimes unavoidable because of illness, urgent personal reasons, and other conflicts. Such absences are handled on an individual basis.

CREDIT LOAD

Students may carry a maximum of six semester hours credit during the regular summer session. Written permission to enroll for more than six semester hours must be obtained from the Summer Session Office.

Course credit will not be granted for duplication of courses. The responsibility for duplication of courses rests with the student. Concurrent enrollment in colleges and universities in excess of six semester hours may result in loss of course credit.

COURSE AUDITING POLICY

Students desiring to audit courses must first obtain permission from either the Field Services Office or the Graduate Study Office. Since only a limited number of auditors can be accommodated, only students presenting bona fide reasons will be granted this privilege. Students permitted to audit a course must register and pay the normal tuition and fees. The instructor will be informed by the Field Services Office or the Graduate Study Office about students in his class who have auditor status. It shall be the prerogative of the instructor to determine the degree of class participation that an auditor may be permitted in his particular class. No credit will be given for courses audited. A student who audits a course will receive a grade report indicating the title of the course and marked (Audit—No Credit). The same information will be posted on the student's permanent record card.

GRADES

Approximately three weeks after the completion of the Summer Session grade reports are issued. The grade report bears the seal of the college and may be forwarded to the County Superintendent of Schools as evidence of completion of certification requirements.

The final grades are reported at the end of the semester by letter symbols:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Equivalent</th>
<th>Audit—No Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
<td>F—No Credit</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
<td>Inc.—Incomplete Work</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
<td>WP—Withdrawn, Passing</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
<td>WF—Withdrawn, Failing</td>
</tr>
</tbody>
</table>

To convert the "Incomplete" mark to an acceptable letter grade, the student must fulfill course requirements not later than the date stipulated by the instructor, or the grade automatically becomes an F.

A grade point average of 2.00 or "C" is required for graduation.

VETERANS

Any questions concerning veteran's benefits should be directed to Mr. Sidney Murdock in the Summer School Office.

Veterans and children of veterans wishing to enroll for benefits should be prepared to pay all fees and educational costs at the time of registration. An educational allowance is paid directly to the student provided he has secured proper entrance authorization and maintains
satisfactory standing in his class. The total amount of payment depends upon the semester hour load and the number of dependents. The first payment will normally be received sixty to seventy-five days after the first day of classes. To be reimbursed by the Veterans Administration the student must:

1. Obtain V.A. Form 21E 1990, Veteran's Application for Program of Education, from the Summer School Office. Fill it in and mail to:
   V.A., 20 Washington Place, Newark, N. J.
2. The V.A. will mail you two copies of a certificate of eligibility (V.A. Form 1993).
3. Send both copies to Mr. Murdock, in the Summer School Office.
4. At registration, veterans must designate on the registration card that they intend to receive benefits from the V.A. during the term for which they are registering. FAILURE TO DESIGNATE THIS FACT WILL RESULT IN NO PAYMENT FOR THAT TERM.
5. A brief guide sheet (Form 67) is available in the Summer School Office to help veterans. Please obtain a copy when you register.

TRANSCRIPT OF CREDIT

Students desiring a transcript of credit for courses completed should write to the Registrar, Trenton State College, Trenton, New Jersey 08625, and include the following:

1. Full Name (Include maiden name)
2. Address
3. Dates of attendance (Inclusive)
4. Date of graduation
5. Name and address to whom transcripts should be mailed
6. $1.00 for each transcript requested

STUDENT PARKING REGULATIONS

Area "A", located near the football field at the main entrance to the campus, is reserved for students to park automobiles. Parking automobiles along roadways or in areas reserved for faculty, staff, and visitors is prohibited. Students who illegally park their automobiles on the campus will be subject to fine by the Traffic Office.
SPECIAL SERVICES

RESIDENCE HALLS

APPLICATION FORMS FOR ROOM RESERVATIONS MAY BE OBTAINED FROM THE SUMMER SESSION OFFICE, GREEN HALL

ARRANGING FOR ACCOMMODATIONS

Accommodations for men and women students will be available in college residence halls. Advance reservation for rooms is requested. If application forms, accompanied by payment in the exact amount, are received before Thursday, June 19, the student will receive a room assignment by mail. If no advance reservation is made, there may be a two-day period at the start of the Summer Session before a room can be assigned. A check, or money order, in the exact amount payable to Trenton State College, must be mailed with the reservation form to the Summer Session Office.

RESIDENCE HALL FEES

The cost of room and board (3 meals a day, 7 days a week) in the residence halls will be $136.32 for the entire six-week Summer Session, June 29-August 8. The charge for a single week or part of a week beginning on any Sunday will be $22.72.

PERIOD OF SUMMER OCCUPANCY

Residence halls will be open for Summer Session at 4:00 P.M., Sunday, June 29. Rooms will be ready for occupancy at that time. Residence halls will close on Friday, August 8 at 7:30 P.M.

REFUNDS FOR ROOM AND BOARD

The policy concerning refund of residence hall charges is available upon request from the Housing and Food Services Office in Green Hall.

ACCOMMODATIONS AND FURNISHINGS

College residence halls have a few single rooms and many more larger ones designed for double occupancy. Insofar as possible, requests for single rooms will be honored. In all halls, the college will furnish bed linen. Each student should bring his own towels, face cloths, bedspread and drinking glass.

RESIDENCE HALL REGULATIONS

The privilege of occupying a residence hall room is given only to the person to whom the room is assigned. A key deposit of $2.00 is charged and is refundable upon return of the key.

Animals may not be kept in residence halls.
Alcoholic beverages are not permitted on campus.
Hot plates or self-contained cooking units, irons and cooking utensils may not be used in residence hall rooms. Each residence hall has a kitchen for the use of residents for the preparation of snacks.
Television sets, radios, etc., with outside connections are not permitted.
The use of air conditioners is not permitted. Fans may be used only after approval by the college electrician at the residence hall office.
The college does not assume responsibility for loss or damage to personal property of students living in residence halls.
Residents will be held responsible for all damage or defacement to residence halls and residence hall equipment.
RESIDENCE HALL GUESTS

Arrangements for overnight guests in residence halls should be made at the residence hall office before 3 P.M. on the particular date. The charge to guests is $1.50 per night.

DINING HALL

The first meal served to residents will be supper on Sunday, June 29. The last meal served will be dinner on Friday, August 8.

All campus residents are charged for meals. Commuters may purchase single meals in the Dining Hall. The college dining hall is not organized to provide special diets.

DINING HALL MEAL SCHEDULE

<table>
<thead>
<tr>
<th>Weekdays</th>
<th>Sundays</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakfast</td>
<td>Breakfast</td>
</tr>
<tr>
<td>7:30-8:00</td>
<td>8:00-8:30</td>
</tr>
<tr>
<td>Lunch</td>
<td>Dinner</td>
</tr>
<tr>
<td>12:00-1:15</td>
<td>12:30-1:00</td>
</tr>
<tr>
<td>Dinner</td>
<td>Supper</td>
</tr>
<tr>
<td>5:15-6:15</td>
<td>5:15-6:15</td>
</tr>
</tbody>
</table>

(Conflicts between Dining Hall schedule and class schedule may be resolved in the Housing Office.)

SNACK BAR

Snack Bar service will be available. Hours will be determined according to the needs of students.

RECREATION

The campus at Hillwood Lakes provides ample facilities for recreation and social activities. Tennis courts are available for recreation and instruction.

The college pool will be open daily, except Sunday, during such hours as will accommodate groups of students who are interested in swimming. A lifeguard will be in charge at this time.

Every person using the pool must be approved by the college physician who will make a check on heart, respiratory tract, eyes, ears, and skin.

A schedule of recreation activities will be published for the Summer Session.

COLLEGE STORE

Services of the college store are available to Summer Session students. The college store is located in new relocatable building.

The business hours are:

- Monday-Friday 8:30 A.M.-4:30 P.M.
- Closed all day Saturday
- Evening hours: 5:00-8:00 P.M.
SPECIAL FEATURES OF THE SUMMER SESSION

CAMPUS DAY CAMP

The Campus Day Camp is designed to provide a summer play experience for children from six to twelve years of age. Faculty children, children of parents attending summer school, and children from nearby communities are invited to attend.

The camp will operate Monday through Friday between 8:30 A.M. and 1:00 P.M. from June 30 to August 8. The camp will not operate on Friday, July 4. The weekly fee is $10.00. Three weeks constitutes a minimum enrollment. Campers will be provided insurance coverage by the Hartford Accident and Indemnity Company. Transportation to the camp will not be provided. Campers may be registered at the Summer Session Office in Green Hall beginning June 2, 1969 between 9:00 A.M. and 4:00 P.M. Checks are to be made payable to Trenton State College.

The program is varied and interesting. Children are divided into appropriate age groups and activities are selected on the basis of growth and developmental needs and abilities. Supervision is provided by the college physical education staff and student assistants. The program includes games, tennis, swimming instruction, nature study, and quiet activities. Mr. Roy VanNess, Director of Athletics at the college will serve as Camp Director. For further information please contact Mr. VanNess at 882-1855, Extension 292 or 253.

INTERNATIONAL WORKSHOP (360.01—3 s.h.c.)

The Workshop is offered under the direction of the International Education program. This year will be the twelfth consecutive summer for this particular aspect of the total international program. During the first three weeks of the summer session a group of ten visiting foreign students (nationality to be announced) selected by The Experiment in International Living, will live and work on our campus with a similar number of students from Trenton State College; the host group may include summer session students who are interested in earning three elective credits. However, because of the intensive activity during the three weeks, the program must be considered a full-time obligation, and would preclude a participant from enrolling in any other summer course.

The aim of the Workshop is to provide both groups of students with a stimulating and multi-faceted cross-cultural experience. In pursuit of this goal, the group will study as many different aspects of the political, social, economic, and cultural situation of life in this part of the United States as possible. Although it centers on the campus and draws freely on the facilities of the College and the talents of its faculty, the Workshop travels to various historical, educational, and cultural sites in the New York-Trenton-Philadelphia areas. Another singular and important step toward accomplishing the purpose of the Workshop is the housing of the visiting students with their Trenton State hosts in a campus residence hall, where the opportunity for daily contact among individuals reaches its most significant level; the one to one relationship of roommates provides an ideal basis for a close examination of different cultures.

Credit for the course (360.01) will be accepted as an elective for degree requirements.

The Workshop is under the direction of Dr. John F. Erath, Coordinator of International Education, and will be led by Mr. Joseph Gorczynski, of the Psychology Department. Those interested may consult Dr. Erath, English Department, to secure an application for enrollment.
Trenton State College in cooperation with the College of Education of the University of Frankfurt, Germany, and the Experiment in International Living offers the sixth annual Area Study Seminar in Germany from June to August 1969. The Seminar, course 360.05, is part of the International Education program and is open to undergraduate and graduate students. An undergraduate will receive four semester hour credits applicable as Liberal Studies, Humanities or Social or Behavioral Sciences, or as Free Elective credits toward the degree requirements. With prior approval of his advisor, a matriculated graduate student may receive four semester hour credits toward the general education requirements of his graduate program.

The major foci of the program will be comparative education, modern social and political problems, historical perspectives, art and music. The program includes: intensive language training at the School for International Training of the Experiment in International Living at Brattleboro, Vt.; a one-week seminar at the University of Frankfurt directed by Frankfurt faculty members; a three-week homestay in a city in Northern Germany; a three-week bus trip with the following itinerary: Berlin, Prague, Vienna, Salzburg, Munich, Lake Constance, Freiburg, Mainz. The group will attend performances at the Salzburg Music Festivals. On the bus trip the group will be accompanied by Professor Hermann Schroedter of Frankfurt University and Miss Sharon Clark of Trenton State College, the Co-Director of the Seminar.

At the conclusion of the official program participants may elect to stay in Europe for “free travel” and return on a later charter jet.

Applicants should have at least one semester of conversational German, preferably of recent date.

The total cost of the Seminar is $1,200.00 including all travel from Vermont, all meals, hotels, fieldtrips, sightseeing, festival tickets, tuition and intensive language training.

Persons interested in applying should direct inquiries to Dr. John F. Erath, Coordinator of International Education, Trenton State College.

PEMBERTON TOWNSHIP CENTER

A program is offered by the college at the Pemberton Township High School in cooperation with the Educational Directors at McGuire Air Force Base, Fort Dix, and Lakehurst Naval Air Station. The facilities of the Pemberton Township High School have been made available through the courtesy of the Superintendent of the Pemberton Township schools and the Board of Education.

The schedule of courses, time and day of class meetings, and registration procedures is published by the Summer Session Office, Trenton State College and may be obtained from the college or from the Director, Education Center, McGuire Air Force Base. Telephone 724-2100, Ext. 3018-9.

June 3 - August 7
DESCRIPTION AND SCHEDULE OF UNDERGRADUATE COURSES

ART

110.25 Foundations of Art
3 S.H. Class #B01 Period 2 Dr. Burns G105
Class #C01 Period 3 Mrs. Hutchinson G107

Introduction to design problems. The focus of the course is to develop and extend sensitivity and insight into the basis of the art process. Personal explorations with two and three dimensional media. Extensive use of audio-visual materials.

210.25 Printmaking
3 S.H. Class #A01 Period 1 Mr. Demarais G3

Prerequisite 110.25 or permission of the instructor. A study of printmaking through print production, making of etchings, aquatints, engravings, dry point etchings and collage prints, emphasis on exploring experimental contemporary developments of these techniques.

210.29 Ceramics
3 S.H. Class #F01 June 9-June 27 Mr. Lehman G7-9-11
(Monday-Friday, 5:15-7:45)
Class #C02 Period 3 Mr. Wilensky G7-9-11
Class #E01 Evening (7:45-10:00) Mr. Lehman G7-9-11

Methods of forming clay, decorating, glazing and firing, mold-making and casting, and methods on the potter's wheel.

313.04 Teaching Arts and Crafts in Elementary Grades
3 S.H. Class #F02 June 9-June 27 Dr. Ahrens G107
(Monday-Friday, 5:15-7:45)
Class #B02 Period 2 Mr. Goldstein G107
Class #E02 Evening (7:45-10:00) Mr. Wilensky G107

This course is planned to aid the teacher in selecting art experiences appropriate for the various age and grade levels of the elementary school. Opportunities will be provided for everyone to work with many different and inexpensive materials which can be used by children in creative, constructive experiences. Students will be encouraged to work on problems which have significance for their particular classroom.

BUSINESS AND DISTRIBUTIVE EDUCATION

311.12 Marketing
3 S.H. Class #D20 Evening (5:15-7:30) Mr. Cicchetti G220

Functions, institutions, and problems of marketing examined from the viewpoint of their effect on distribution of goods.

311.25 Punch Card Data Processing
3 S.H. Class #101 July 1-July 19 Mr. Sherrer G19
(8:30-11:15)
Class #102 July 21-August 8 (8:30-11:15)

Explores the role of automation in society. Attention is given to the fundamentals involved in determination and continuance of automated systems. An over-all view of data processing systems.
Methods of Teaching Typewriting
3 S.H. Class #F03 June 9-June 27 Staff G215
(Monday-Friday, 5:15-7:45)
Prerequisite: 111.05. Methods of teaching beginning and advanced typewriting courses, with particular emphasis on the findings of researchers and the effect of research on teaching techniques.

EDUCATION

Improving Reading and Study Skills
213.25
3 S.H. Class #B03 Period 2 Mr. Shepherd G212
Reading improvement course for college students. For students who wish to improve their reading and study skills. Study techniques developed. Measurement of each student's reading ability at the beginning and at the end of the course.

Teaching Reading in Elementary Grades
313.02
3 S.H. Class #A02 Period 1 Dr. Walthew G202
Class #B04 Period 2 Dr. Franz G202
Class #E03 Evening (7:45-10:00) Mr. Shea G202
Basic principles. Nature and organization of systematic reading programs for the elementary school. Various types of methods and materials used to provide an integrated sequential program of learning activities, and the teacher's responsibility in guiding the elementary school reader's growth. Demonstrations, guided observations, and related experiences.

Teaching Social Studies in Elementary Grades
313.06
3 S.H. Class #A03 Period 1 Dr. Carman G206
Class #D01 Evening (5:15-7:30) Mr. Shea G202
This course deals with the newer methods and curriculum emphasis of the social studies in the elementary school. In addition it considers such problems as (1) child growth and development in social understanding, (2) reading skills as they relate to the social studies at the elementary level.

Audio-Visual Education
313.10
3 S.H. Class #F04 June 9-June 27 Mr. Nutt L56
(Monday-Friday, 5:15-7:45)
Class #A04 Period 1 Mr. Nutt L56
Class #D02 Evening (5:15-7:30) Mr. Romano L56
Curriculum utilization of audio-visual materials, mastery of many types of audio-visual devices and equipment, principles of operation, possibilities for utilization, techniques for evaluation of materials and equipment, knowledge and skills in the production of simple audio-visual materials. A modest fee is charged each student who desires to keep materials made in the course.

Development of Educational Thought
313.60
3 S.H. Class #F05 June 9-June 27 Mr. Jeffries G219
(Monday-Friday, 5:15-7:45)
Class #B05 Period 2 Mr. Orr R2
Class #D03 Evening (5:15-7:30) Dr. Trowbridge G206
Class #E04 Evening (7:45-10:00) Mr. Jeffries G210
Examination of philosophic assumptions and beliefs in terms of relationships to the development of educational philosophy and to education as a social institution. Synoptic study of the history of European and American education. Evaluation of principles underlying educational theories and practices. Attention to specific philosophies of education and their implications to modern education. Emphasis upon developing a personal philosophy of education through an objective examination of beliefs, theories, philosophies, and the history of educational thought.
313.80 Elementary School Curriculum
3 S.H. Class #B06 Period 2 Dr. Watson G211
This course examines the basic theory and philosophy underlying the modern elementary school curriculum. Emphasis is placed upon specific problems as the aim and objectives in curriculum construction, the choice of adequate instructional materials, the formulation of the daily program, and the evaluation of learning outcomes. Particular reference is made to those areas of curriculum designated as the language arts, the social studies, the cultural arts, and the practical arts.

313.85 Principles and Practices of Secondary Education
3 S.H. Class #E05 Evening (7:45-10:00) Mr. Richter R1
Understanding of the evolution and status of the secondary school in the United States; historical development and changing aims of the secondary school, comparison with aims and organizations of certain European schools, nature and scope of the curriculum, nature and needs of the secondary school pupil, newer procedures, qualifications of the secondary school teacher, and current problems and issues.

413.06 Principles and Practices of Elementary Education
3 S.H. Class #F06 June 9-June 27 (Monday-Friday, 5:15-7:45) Mr. Shea G211
Discussion and analysis of actual classroom problems and procedures. Objectives and philosophy of modern elementary education. Discussion of desirable classroom environments, proper use of instructional materials, responsibilities and ethics of the teaching profession, daily and unit planning. Emphasis upon a positive approach to classroom discipline.

413.15 Teaching Language Arts in Elementary Grades
3 S.H. Class #C04 Period 3 Dr. Ingalls G210
Emphasis on the language needs of children and methods and materials of meeting these needs. Emphasis on language as a form of social behavior and on the best methods for teaching oral and written composition, penmanship, listening and spelling.

413.40 Teacher in School and Community
3 S.H. Class #F07 June 9-June 27 (Monday-Friday, 5:15-7:45) Mr. Yengo G210
An inquiry into the nature and scope of the teacher's role in the school and community. Examination of public education as a culturally forceful institution of the community and nation. Nature and significance of teaching as a profession. School law. Issues, problems, and trends in public education.

413.97 Seminar in Supervised Teaching (Part I)
6 S.H. Class #103 Periods 1, 2, 3 Elementary Staff TBA
Class #104 Periods 1, 2, 3 Secondary and Special Fields Staff TBA
A summer session consisting of daily lectures, class discussions, conferences, observation and limited participation in the campus demonstration classes. Topics discussed include aims and objectives of present-day educational program. Lesson and unit planning; the public school curriculum, classroom management; measurement and evaluation of student progress.
114.01 Language and Communication
3 S.H.  Class #A05  Period 1  Mr. Bearer  G212
Class #E06  Evening (7:45-10:00)  Mrs. Hanley  G212A

The nature and function of language, communication of fact, communication of opinion. Study of newspapers, magazines, movies, radio and television programs. Discussion and critical analysis of contemporary communication.

114.05 Introduction to Poetry
3 S.H.  Class #F08  June 9-June 27  Mr. Mehlman  G212
(Monday-Friday, 5:15-7:45)

Prerequisite: 114.01. Criticism and evaluation of poems based on imagery, music, and meaning. Oral reading of poetry and listening to recordings. Emphasis on poetry as an art.

214.01 World Literature I
3 S.H.  Class #C06  Period 3  Mr. Myers  K205
Class #D05  Evening (5:15-7:30)  Mr. Murray  K205

American and English literature; European and Asiatic literature in translation. Reading of novels, plays, poetry, philosophy, and religious writings, grouped by subjects, theme, mood, or genre, rather than by language, nationality, or chronology.

214.02 World Literature II
3 S.H.  Class #B07  Period 2  Dr. Thomas  K205
Class #E07  Evening (7:45-10:00)  Mr. Ekizian  K205

Continuation of World Literature I.

214.06 Classic American Literature
3 S.H.  Class #E08  Evening (7:45-10:00)  Dr. Liddie  G212

Prerequisite: 114.01.

Study of works by Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson and Twain. Through emphasis on key works, to offer the student a basic understanding of major developments in American literature and civilization to the closing years of the 19th century, and to provide a foundation for further study in more recent American literature.

214.41 Linguistics
3 S.H.  Class #B08  Period 2  Dr. Beechold  K104

Prerequisite: 114.01. Introduction to general linguistics; survey of the development of the English language and of the structure of modern American English; consideration of the relationship of syntactic structures and literary style.

314.32 Drama Survey
3 S.H.  Class #D06  Evening (5:15-7:30)  Dr. Erath  G212A

Prerequisite: 214.01 or .02. Study of major dramatic works from the beginnings in the Greek theater to the middle of the 19th century, with emphasis on those authors and plays not usually discussed in other courses.

414.35 Twentieth Century Poetry
3 S.H.  Class #C07  Period 3  Mr. Wood  G212

Prerequisite: 214.01 or .02. Study of major trends in modern American and British poetry, with special attention to key figures.
GEOGRAPHY

115.01 Physical Environment and Man
3 S.H. Class #A06 Period 1 Dr. Casper R15
Class #E09 Evening (7:45-10:00) Mr. Hewitt R15

Study of the earth as the home of man; environment, human beings, and relationships existing between them. Basic features of the earth's major environments. Experience in the use of the literature of geography, atlases, maps, and other devices useful in locating and interpreting the character of places.

315.01 Anglo-America East
3 S.H. Class #B09 Period 2 Dr. Casper R17

Prerequisite: 115.01.

Study and interpretation of major geographic regions of eastern United States and Canada. Development of cultural environment in relation to the natural environment. Individual research on selected areas of New Jersey and participation in one field trip to nearby region required. Analysis of land utilization in relation to topography.

315.30 Latin America
3 S.H. Class #B10 Period 2 Dr. Carney R15

Prerequisite: 115.01 Physical Environment and Man.

A regional study of Latin America to show the relationship between the environmental factors and the population pattern, the life of the people, their social customs and their methods of making a living. Stress upon transportation, commerce, and communications within and between the various countries, and with other parts of the world to show the economic importance of the main products of Latin America.

POLITICAL SCIENCE

116.05 American Government
3 S.H. Class #A11 Period 1 Dr. An R9

The ideals and political climate which gave rise to our forms of government; the constitutional and extra-constitutional factors which have molded and changed our government; the powers, policies and inter-relationships of the different levels of government will be presented and analyzed.

216.10 Political Parties and Elections
3 S.H. Class #B13 Period 2 Mr. Huntoon R9

History, organization, composition, functions, and objectives of political parties, and their relation to our government. Development of the importance of major and minor parties, primaries and elections. Legal and political qualifications for candidacy and for voting; and the distinctions between pressure groups and parties, and their place in campaign tactics and party policy.

416.01 International Relations
3 S.H. Class #E15 Evening (7:45-10:00) Dr. Cheng R2

Analysis of power politics in the contemporary world of nation-states and the various approaches to world peace including balance of power, judicial settlement, arms limitation, diplomacy, international organization and world government.
HEALTH AND PHYSICAL EDUCATION

117.05 Personal Health Problems
3 S.H. Class #A07 Period 1 Mr. Schmid R10
Scientific discovery and recent progress in health sciences as an approach to the solution of individual health problems. Health is considered as a means to effective living and self-evaluation is encouraged.

317.72 Foundations of Sex Education
3 S.H. Class #A08 Period 1 Dr. Fulton P101
Course contents center upon the acquisition of knowledge pertaining to the various facets of family life, i.e. economic, psycho-social, health, and reproductive. Emphasis is placed upon the integration of family life education in the school curriculum and techniques essential for assisting children and youth in meeting problems in these areas.

417.45 Evaluation in Health and Physical Education
3 S.H. Class #F09 June 9-June 27 Dr. McCollum P104
(Monday-Friday, 5:15-7:45)
Review of recent trends and methods relating to tests and measurement in Health and Physical Education. Emphasis on the development of a basic working knowledge for handling statistical data and an appreciation of testing and measuring in the improvement of programs in Health and Physical Education.

417.91 Alcohol and Narcotics Education Workshop
2 S.H. Class #F10 June 9-June 20 Mr. Herzstein R2
(Monday-Friday, 5:15-7:45)
Physiological and metabolic effects of alcohol in the body, the problems of alcoholism and narcotic addiction for school principals, health teachers, school nurses, and others. Emphasis will be on the school's responsibility and curriculum.

413.10 Teaching Health, Safety and Physical Education in Elementary Grades
3 S.H. Class #F11 June 9-June 27 Mr. Brink P103
(Monday-Friday, 5:15-7:45)
Class #C08 Period 3 Mr. Schmid P103
Class #E10 Evening (7:45-10:00) Mr. Brink P103
Prerequisite: 117.05. Theory and practice of health, safety, and physical education in the elementary school physical education program. Required of all Elementary Education majors.

413.90 Driver Education and Training Workshop
3 S.H. Class #F12 June 9-June 27 Mr. Curry Alumni Lounge
(Monday-Friday, 4:00-8:00)
Class #122 June 30-July 18 Mr. Curry Alumni Lounge
(Monday-Friday, 2:00-6:00)
This course provides classroom instruction and road work including behind the wheel instruction for all students. Class enrollment is limited. Early registration is recommended. This course meets certification requirements to teach Driver Education in the Secondary Schools of New Jersey.
118.07 Heritage of the Western World I
3 S.H. Class #F13 June 9-June 27 Mr. Gray R3
(Monday-Friday, 5:15-7:45)
Class #A09 Period 1 Mr. Allen R6
Class #E11 Evening (7:45-10:00) Mr. Karras R6
A study of the major political, social, economic, and intellectual developments underlying contemporary western civilization. Beginning with the formative period of the ancient world, the course will focus on the traditions of western culture as they evolved through medieval, early modern, and into the contemporary period. The emphasis throughout will be on those historical problems and forces which have molded the features of our own day.

118.08 Heritage of the Western World II
3 S.H. Class #C09 Period 3 Mr. Karras R7
Class #D07 Evening (5:15-7:30) Mr. Faughnan R6
Continuation of Heritage of the Western World I.

218.12 Studies in United States History I
3 S.H. Class #B11 Period 2 Dr. Parks R8
An examination in depth of selected topics in U. S. History dealing with political, social, and foreign policy developments and emphasizing the analytical and interpretive approaches unique to history.

218.13 Studies in United States History II
3 S.H. Class #E12 Evening (7:45-10:00) Mr. MacLaury R4
Continuation of Studies in United States History I.

INDUSTRIAL EDUCATION AND TECHNOLOGY

119.25 Creative Design
3 S.H. Class #A10 Period 1 Mr. Laws A52
Application of basic principles of design in furniture and other consumer items. Cultivation of respect for design as a creative and pleasing solution to problems involving industrial tools, materials, and processes.

219.01 General Metals I
3 S.H. Class #D08 Evening (5:15-7:30) Mr. Wasdyke A33
Introduction to tools, materials, and processes of the metal industries. Fundamental machine and hand tool operations and information topics. Basic instruction units in operation of common machine tools, sheet metal forming, molding and metal casting, bench metal practice, forging, cold forming, fabrication, heat treatment, and welding.

219.03 Power Mechanics I
3 S.H. Class #E13 Evening (7:45-10:00) Mr. Weber A27
Principles of internal combustion engines. Comparative study of modern power units of all types. Maintenance and adjustment of two- and four-cycle engines. Trouble shooting and caring for the modern automobile.

219.12 General Crafts
3 S.H. Class #B12 Period 2 Mr. Johnson A44
Developing knowledge and skill in a variety of craft activities including: carving, leatherwork, stenciling, lapidary processes, copper tooling and plastic. Application of Craft activities for various school and club groups, camps, and leisure time. Emphasis on planning, design, and craftsmanship for teaching purposes.
219.16 Basic Electricity—Electronics
3 S.H. Class #F14 June 9-June 27 Mr. Dresser A57
(Monday-Friday, 5:15-9:15)
Study of electricity in motion, its generation, circuits, and descriptive units. Use of measuring instruments to determine current, voltage, resistance, induction, capacitance, and resonance. Study of electrical machines such as motors, rectifiers, transformers, and inverters. Application of electrical theory in projects adaptable to high school industrial arts classes.

219.18 Lithography
3 S.H. Class #F15 June 9-June 27 Mr. Edelbach A3
(Monday-Friday, 5:15-9:15)
A study of the processes and techniques of the photo-offset lithographic industry. Major emphasis will be in the areas of cold and photo composition, line and tone process photography, stripping and plate making and press work.

319.40 Hot Metals
3 S.H. Class #105 July 21-August 8 Mr. Bittner A33
(8:00-4:00)
(Prerequisite: 219.01) or consent of instructor.
Advanced study of the various metal processes requiring the application of heat. Major emphasis will be in the areas of welding and foundry, with limited coverage of such topics as forging and heat treating. The area of welding will include the fusing of all common metals and the testing of the materials welded. The foundry area will include the study of various molding and casting techniques.

319.41 General Welding
3 S.H. Class #106 June 30-July 18 Mr. Bittner A33
(8:00-4:00)
Prerequisite: 219.01 General Metals or equivalent.
Welding of common metals by electric arc and oxyacetylene processes. Operation of gauges, tanks, torches and various kinds of welding equipment with emphasis on modern safety practices. Technology of materials of the welding industry. Development of welded projects for industrial art classes.

419.12 Cabinet Making and Furniture Construction
3 S.H. Class #C10 Period 3 Mr. Johnson A44
Construction and finishing of a cabinet or other piece of fine furniture. Developing appreciation for design, the details of thorough construction, and modern finishing processes.

419.18 Cooperative Industrial Experience
1 S.H. Class #107 Mr. Dresser/Mr. Weber By Arrangement
2 S.H. Class #108 Mr. Dresser/Mr. Weber By Arrangement
3 S.H. Class #109 Mr. Dresser/Mr. Weber By Arrangement
Planned cooperative industrial work experience. Development of depth of understanding of industry through observation and participation in a typical industrial assignment.

213.36 Foundations of Practical Arts and Vocational Education
3 S.H. Class #E14 Evening (7:45-10:00) Mr. Lockwood A73
The philosophical and psychological basis of industrial education in contemporary American life are studied along with an examination of historical roots, present values, objectives, and contributions. Industrial education curriculum are reviewed. Their relationship to one another and their role in American education is examined. The student is introduced to the fundamentals of content selections and course organization.
413.50 Instructional Aids in Industrial Education
3 S.H. Class #D09 Evening (5:15-7:30) Mr. Lockwood A47
Construction and use of graphic, projected, and mechanical types of audio-visual aids as they apply to industrial education. Analysis of needs for specialized areas of industrial arts. Design and construction of mock-ups, cut-aways, storage and display facilities for charts, models, and teaching aids. Operation and maintenance of audio-visual equipment.

413.97 Seminar in Supervised Teaching (Industrial Education)
6 S.H. Class #110 Evening (5:00-9:00) Mr. Smith A56
Monday-Friday
A summer session consisting of daily lectures, class discussions, conferences, observation and limited participation in the campus demonstration classes. Topics discussed include aims and objectives of present-day educational program. Lesson and unit planning; the public school curriculum, classroom management; measurement and evaluation of student progress.

LIBRARY SCIENCE

220.01 Instructional Materials I
3 S.H. Class #B14 Period 2 Mr. Hartz L211
Basic reference tools of the school librarian, with emphasis on the use of these tools in the instructional program. Other books used in answering students' questions and the many non-book materials used in the modern classroom.

320.01 Books for Young Adults
3 S.H. Class #E16 Evening (7:45-10:00) Mr. Brown L211

320.05 Children's Literature and Storytelling
3 S.H. Class #C11 Period 3 Mr. Hartz L211
Stimulation to know and to enjoy children's books. Familiarization with types of literature. Adequate knowledge of the historical and social background of distinct types of literature. Attention to the increasing interest in the book illustrations. Evaluative standards for children's literature in relation to the needs and interests of children at various ages. Techniques for presenting desirable literature to children.

420.05 Administration of School Libraries
3 S.H. Class #A12 Period 1 Miss Burtis L211
Function of the school library; relationships with the administration, faculty, and students; how to plan a school library unit; publicity for the school library; reporting school library activities; organization and circulation and attendance in a school library. Class discussions and activities based upon the student's observations and experiences.

MATHEMATICS

121.00 Elementary Functions
3 S.H. Class #E17 Evening (7:45-10:00) Dr. Haenisch SM139
A study of elementary functions, their graphs and applications, including algebraic, exponential, logarithmic, and trigonometric functions.
Foundations of Mathematics

121.01 Foundations of Mathematics

3 S.H.

Class #A13 Period 1 Mr. Barr SM101
Class #B15 Period 2 Dr. Price SM102
Class #C12 Period 3 Dr. Hausdoerffer SM102
Class #D11 Evening (5:15-7:30) Mr. Iannone SM102
Class #E18 Evening (7:45-10:00) Mr. Spencer SM137

Development of an understanding and appreciation of the nature of mathematics in shaping human affairs. Typical topics: geometry, logic, number systems as groups and fields, sets and algebra of sets, and relations.

121.02 Foundations of Mathematics II

3 S.H.

Class #B16 Period 2 Dr. Hausdoerffer SM101
Class #E19 Evening (7:45-10:00) Mr. Ehrenpreis SM102

The three major topics, selected to complement the first course, are: Mathematical Systems, Probability, and the Limit Concept. The concept of the function developed in Mathematics 121.01 lead to the invention of the group and other systems fundamental to every branch of mathematics. Probability is an indispensable tool of the engineer and is a thriving branch of pure mathematics. Modern mathematics centers around the concept of limit. The definition of limit is the result of more than a hundred years of trial and error. Only by limiting processes can the fundamental notions of applied mathematics be defined.

This course is a continuation of Mathematics 121.01.

121.10 Business Mathematics

3 S.H.

Class #B17 Period 2 Dr. Cromack SM137

Analysis of the mathematical aspects and social applications of the following and related topics: simple and compound interest, discount, annuities, amortization, sinking funds, bonds, depreciation, perpetuities and capitalized cost, life insurance, and pensions.

121.20 Elementary Mathematical Analysis

3 S.H.

Class #D12 Evening (5:15-7:30) Mr. Spencer SM101

Analysis of fundamentals of algebra, trigonometry, and analytic geometry. Applications involving direct and indirect measurements which include: theory and use of mathematical instruments, such as transit, sextant, level, and plane table; theory and construction of maps and graphs, logarithms, and the slide rule; problems from shop and industry.

221.07 Introduction to Modern Algebra

3 S.H.

Class #D13 Evening (5:15-7:30) Dr. Goldstein SM138

An elementary course in abstract algebra. Its aim is to introduce the student to selected topics in algebra and present the material in a rigorous way. Selected topics will include Sets, Functions, Groups, Rings, and Fields.

221.10 Concepts and Structures of Elementary Mathematics

3 S.H.

Class #C13 Period 3 Dr. Cromack SM137

Prerequisite: 121.01. Development of the concepts of arithmetic, algebra and geometry from the point of view of their mathematical structure. The axiomatic development as a basis for understanding the mechanical reasoning behind the "rules" and manipulations of elementary mathematics. Emphasis on formulation and proof of generalizations rather than on computation.
An introductory course open to all students with a knowledge of high school algebra and dealing with the computer, its makeup and what it is capable of doing. After the details of the computer are studied, the actual setup and solution of elementary mathematical problems will be carried out on the machine. Fortran IV, a universal program language will be used for the problems.

Prerequisite: 221.02 or equivalent. This course is designed primarily as an enrichment course for students and teachers who have studied calculus for 2-4 semesters and who wish to take an intermediate level course preparatory to taking advanced calculus. Typical topics: convergence of sequences, indeterminate forms, Riemann integral, series, vectors, partial differentiation, multiple integration, line integrals.

A combination of a methods course and a professionalized subject matter course. Arithmetic developed as a deductive system with an emphasis on developing an understanding of the basic operations. Materials organized for effective teaching sequences. Problem solving, diagnostic work, and testing.

General Education offering designed to guide the listener in his search for music enjoyment and understanding by examination and experience of the materials and literature of music and by acquaintance with periods, styles and outstanding musical personalities from the Renaissance to the contemporary scene.

A correlated listening and study experience in ancient, medieval, and Renaissance music.

Examination of the rise of Romanticism (beginning with Beethoven and Schubert) and its manifestations in the fields of European opera, symphonic and chamber music, church music, song and piano literature. Inquiries into the historical, cultural, and political backgrounds of the period. Outside listening, concert attendance, and reading.

Continuation of Beginning Voice.
 Conducting—Instrumental
1 S.H. Class #D16 Evening (5:15-6:05) Mr. Isch B124
Course stresses a study of various beat patterns, use of the left hand and other related techniques of conducting. Emphasis is placed upon interpretation, score reading and score marking. The class is formed into an instrumental ensemble in order that each student may have opportunity to conduct a live group. Materials, especially appropriate for Junior and Senior High School, are discussed and played.

Music Drama
2 S.H. Class #E21 Evening (7:45-9:15) B-Recital Hall
This course is required for music majors and will stress the production and artistic performance of music drama with the emphasis on the organizational and operational aspects of practical and economical public school presentations. Juxtaposed during the session is an extra-curricular music drama workshop open to all college students desiring technical and performing experience.

Teaching Music in Elementary Grades
3 S.H. Class #B19 Period 2 Mr. Safran B125
Music for elementary classroom teaching. Study of the child voice and procedure for training children's voices; singing and song selection; rhythmic activities suitable for each grade level; playing rhythmic and tone instruments, including xylophone and piano; listening and selecting materials for listening lessons adapted to each grade level; creative music; music reading and part-singing.

Philosophical Problems
124.01 3 S.H. Class #A15 Period 1 Mr. Clouser R8
Class #C15 Period 3 Mr. Clouser R10
Designed to introduce the student to philosophical thinking. Discussions based on assigned reading and center around basic problems such as the meaning of human existence; man and his fellowman; man and nature; what is knowledge, man and society, and the nature of God. Students read original essays written by famous philosophers from Plato to Dewey. Liberal Studies Course.

Introductory Psychology I
225.01 3 S.H. Class #F17 June 9-June 27 K205
(Monday-Friday, 5:15-7:45)
Class #A16 Period 1 Mr. Wang R4
Class #D17 Evening (5:15-7:30) Mr. Gorczynski R4
Fundamental principles of psychology, stressing such areas as motivation, behavior dynamics, perception, learning, and individual differences. Consideration of physiological aspects. Emphasis on the application of principles in educational situations.

Introductory Psychology II
225.02 3 S.H. Class #B20 Period 2 Mr. Wang R4
Prerequisite: 225.01.
Continuation of Introductory Psychology.

Child Psychology
325.05 3 S.H. Class #C16 Evening 7:45-10:00 Mr. Wolff R5
Class #D18
Prerequisite: 225.01 or 3 hours of college psychology.
Psychological development of children from birth to adolescence; emphasis on elementary school years. Normal maturation of children as influenced by environment. Developmental tasks related to successive phases of growth.
325.15 Social Psychology

3 S.H.  Class #A17  Period 1  Mr. Stierhem  R5
Prerequisite:  225.01 or 3 hours of college psychology.

Individual behavior in social situation. Development and change of beliefs and attitudes. Specific topics: morale, prejudice behavior, leadership, propaganda, dynamics of small groups.

325.16 Developmental Psychology

3 S.H.  Class #C17  Period 3  Mr. Stierhem  R4
Prerequisite:  225.01 or 3 hours of college psychology.

Consideration of the emotional, mental, physical, and social development of youth from conception through adolescence. Emphasis on the influences of the home, school, and community on adolescence.

325.18 Classroom Learning and Evaluation

3 S.H.  Class #B21  Period 2  Staff  R3
Prerequisite:  225.01 or 3 hours of college psychology.

Examines the interrelationships between intellectual development and demonstrated principles of human learning. Stresses significance of these for actual classroom practice, especially in concept formation, problem solving, and the acquisition of knowledge. Develops principles and techniques of classroom evaluation.

325.25 Psychology of Personality

3 S.H.  Class #B22  Period 2  Mr. Wolff  R5
Prerequisite:  225.01 or 3 hours of college psychology.

Contemporary approaches to the study of personality. Detailed treatment of various modern theories of personality and major determinants and dynamics of personality organization.

425.46 Mental Health

3 S.H.  Class #A18  Period 1  Staff  R1
Prerequisite:  Six semester hours in psychology. Examination of problems involved in self-understanding and understanding of others. Phenomenological approach to the discussion of personality and personal value systems. Elementary discussion of common behavior problems.

SOCIOLGY

227.01 Community and Society

3 S.H.  Class #A19  Period 1  Mr. Anderson  R7

Development of sociological principles through the study of the community. Emphasis on its ecology, class and institutional structure, and the processes of human interaction. Relation of community to society at large. Study of the nature of culture and cultural change.

227.05 Contemporary Social Problems

3 S.H.  Class #C19  Period 3  Mr. Anderson  R9
Prerequisite:  227.01. An analysis of the causes of social problems in general and of their complex interrelationships. A survey of the wide range of social problems in preference to intensive study of a limited number of problems. Emphasis on community responsibility for social problem control.
SPEECH

128.01 Fundamentals of Speech
3 S.H.  Class #F18  June 9-June 27  Staff K104
           (Monday-Friday, 5:15-7:45)
Class #C20  Period 3  Staff K104
Class #D19  Evening (5:15-7:45)  Staff K104

Introduction to the nature of speech and to the history of speech study; consideration of basic speech problems: how to isolate voice and diction defects, apply corrective techniques and evaluate students' speech; how to communicate in public address situations of both informal and formal nature; how to re-create and communicate the words of another through oral interpretation.

SPECIAL EDUCATION

229.01 Survey of the Education of Exceptional Children and Youth
3 S.H.  Class #A20  Period 1  Miss Richards R13
Prerequisite: 225.01. Introduction to the education of the mentally retarded, physically limited, deaf or hard of hearing, blind or partially sighted, socially and emotionally maladjusted, speech defective, and the intellectually gifted.

429.22 Diagnosis and Remediation of Learning Disabilities
3 S.H.  Class #A21  Period 1  Mr. Feehan G-School
(Students having a second period class on campus will be provided travel time by instructor)

Principles and practices concerning the educational evaluation of exceptional children in determining nature and cause of learning disabilities in terms of physical and psychosocial factors. Instruments, procedures, and techniques used to correct learning difficulties, with particular emphasis on reading through visual, auditory, kinesthetic and tactile methods.

413.97 Seminar in Supervised Teaching (Part I)
6 S.H.  Class #111  Periods 1, 2, 3  Dr. Frankel TBA

A summer session consisting of daily lectures, class discussions, conferences, observation and limited participation in the campus demonstration classes. Topics discussed include aims and objectives of present-day educational program. Lesson and unit planning; the public school curriculum, classroom management; measurement and evaluation of student progress.

BIOLOGY

132.15 Principles of Biology I
3 S.H.  Class #112  June 30-July 18  Dr. Vena SM212
           (8:30-12:10)

132.16 Principles of Biology II
3 S.H.  Class #113  July 21-August 8  Dr. Vena SM212
           (8:30-12:10)

Introduction to the major concepts of biology as they relate to man. Consideration given to fundamental properties of living things, their function, structure, classification, life histories and evolution. Emphasis placed upon identification and study of organisms in their natural environment, and upon their interrelationships with one another.
### CHEMISTRY

**133.03 Principles of Chemistry I**

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<thead>
<tr>
<th>Class</th>
<th>June 30 - July 18</th>
<th>Mr. Aagaard</th>
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<th>SM316</th>
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**133.04 Principles of Chemistry II**

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<tr>
<th>Class</th>
<th>July 21 - August 8</th>
<th>Mr. Aagaard</th>
<th>SM315</th>
<th>SM316</th>
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A study of chemistry as a vital science in our culture. The development of modern chemical concepts such as kinetic theory, atomic structure and equilibrium and their importance as related to other sciences and areas of learning. A study of the periodic table using representative elements and relating structure to properties. Organic and biochemistry are introduced. Laboratory experiments are largely quantitative experiments coordinated with the lecture work.

**133.20 Geology**

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<th>Class</th>
<th>Period 2</th>
<th>Mr. Lutz</th>
<th>SM201</th>
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Designed to help the student to recognize and interpret major geological features of the landscape. Attention given to the interplay of the physical processes that have produced the present forms of land. Brief survey of the development of continents during successive geological periods, together with the succession of plant and animal life on the earth. Study of rock and mineral specimens, maps, cross sections, fossils, and field trips as part of the laboratory experiences.

**433.40 Physical Chemistry Laboratory**

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<th>Class</th>
<th>June 30 - July 18</th>
<th>Dr. Goodkin</th>
<th>SM312</th>
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Prerequisite: General Chemistry (133.30-31) and General Physics (234.17-18). Physical Chemistry (233.21-22) may be corequisite or prerequisite. Experiments in general physical and theoretical chemistry including the following: kinetic theory, equilibria, solutions, ionization, reaction rates, and selected topics from thermodynamics and electrochemistry.

### PHYSICS

**134.07 Principles of Physics I**

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<th>Class</th>
<th>June 30 - July 18</th>
<th>Mr. Fink</th>
<th>SM335</th>
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<th>Class</th>
<th>July 21 - August 8</th>
<th>Mr. Fink</th>
<th>SM335</th>
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Study of physical laws and concepts which clarify man's understanding of his physical environment. Stress on unity of physical ideas, impact of concepts on society, development of the concepts as outcomes of human behavior. First semester topics include force, motion, momentum, energy, gravitation. Second semester topics include wave motion, electric charges and fields, the atom, the evolution of physics.
134.10 Descriptive Astronomy
3 S.H.  
Class #A22 Period 1 Dr. Crowell SM114
Class #D21 Evening (5:15-7:30) Dr. Hiack SM114
Class #E22 Evening (7:45-10:00) Dr. Pregger SM114

Designed to acquaint the student with the major heavenly bodies and their movements. Emphasis on the solar system and the explanation of common phenomena such as our system of time reckoning, the calendar, eclipses, phases of the moon, etc.

Wide use of slides, films, and outdoor observations of the sky at night.

134.25 Introduction Meteorology
3 S.H.  
Class #C21 Period 3 Mr. Lecher SM203

Lab: To be arranged by instructor

Study of the basic principles of meteorology to develop an understanding of the physical processes underlying weather phenomena. Opportunity in the laboratory for the student to become familiar with the instruments used for measuring weather elements and forecasting. Weather observations and the study of daily weather maps.

234.04 Physical Science for Elementary Education
3 S.H.  
Class #F19 June 9-June 27 Mr. Kolp SM111
(Monday-Friday, 5:00-8:20)

Class #A23 Period 1 Mr. Seeber SM111
Lab: To be arranged by instructor

An introduction to the basic concepts and principles of chemistry, physics, meteorology. Considerable attention in the laboratory to simple activities and experiments applicable to the elementary school.

313.54 Teaching Science in Elementary Grades
3 S.H.  
Class #C22 Period 3 Dr. Hiack SM111

Prerequisite: Six semester hours of college science.

Place of science in the elementary school and the aims of science instruction at this grade level. Sources of materials and the use of these materials. Opportunity to organize the subject matter of science into teaching units appropriate for the grade level taught. Study of the recent literature in the teaching of elementary science.

INTERNATIONAL STUDIES

360.01 International Workshop: Cultural and Environmental Setting for Education in Northeastern United States
3 S.H.  
Class #I20
(See page 19 for details)

A three-week bi-national program arranged in cooperation with the Experiment in International Living. The visiting group (nationality varies from year to year) joins a group of Trenton State College students for a program of lectures, discussions, field trips, recreational, and social activities to promote an appreciation of the different cultures.

360.05 Area Study Seminar in Germany
4 S.H.  
Class #I21
(See page 20 for details)

Prerequisite: At least one semester of German or its equivalent.

A summer study-travel program offered in cooperation with the Experiment in International Living. The focus of the course oriented toward comparative education, history, art, and political structures and includes intensive language training, home stay with German family, Campus stay at University of Frankfurt; and bus trip to sites of cultural or historical importance.
DESCRIPTION AND SCHEDULE OF GRADUATE COURSES

ART
510.30 History of American Painting and Sculpture from 1940
3 S.H. Class #G01 Period 1 Dr. Burns K
Mr. Goldstein (Small Aud)
This lecture course will trace the history of "The New American Art" movement and its influence on the contemporary art world.

BUSINESS AND DISTRIBUTIVE EDUCATION
511.51 Evaluation and Measurement in Business Education and Distributive Education
3 S.H. Class #H37 Period 2 Mr. Everard G212A
The purpose of this course is to familiarize the students with the evaluation and measurement problems unique in business and distributive education.

511.61 Coordination of Distributive Education (formerly 531.25)
3 S.H. Class #H35 Period 1 Mr. Shenker G220
This course acquaints the teacher with the duties of the coordinator in respect to program building and promotion, instruction, supervision and public relations.

611.30 Problems and Practices in Business Education and Distributive Education
3 S.H. Class #H36 Period 2 Mr. Shenker G220
An examination of current trends and problems in business and distributive education. Students will explore current thinking on the part of business and distributive education researchers.

611.40 Business and Distributive Education Curriculum
3 S.H. Class #H38 Period 3 Mr. Hantjis G212A
A study of principles and problems of business and distributive education curriculums at various levels of schooling. An opportunity is provided to evaluate present programs and to make recommendations for needed changes.

EDUCATION
513.01 Curriculum and Instruction in the Elementary School
3 S.H. Class #G02 Period 2 Dr. Ingalls G210
Introduction to the curriculum and basic principles of teaching in the elementary school. Curriculum development examined in historical perspective. The classroom teacher's role in curriculum improvement. Distinguishing characteristics of present-day curriculum patterns. Basic principles underlying effective instruction including readiness, motiva-
513.02 Teaching the Communication Arts in the Elementary School
3 S.H. Class #G03 Period 3 Dr. Walthew G202
Deals with the written and oral communicative arts as a single pattern of interrelated skills closely integrated with children's maturity and experiences. Curriculum content, materials, and techniques of teaching reading, spelling, handwriting, speech and written language are studied. Emphasis upon the implications of research on classroom procedures in these areas. Examination of existing classroom problems. Open only to students enrolled in E48 and E38 programs.

513.11 New Jersey School Law I
3 S.H. Class #G04 Period 2 Dr. Durkin G219
This course is designed to give the teacher a knowledge of the fundamental school laws of New Jersey. Requirements concerning teacher duties and responsibilities, curricular offerings, and relationships with pupils and parents are discussed. Court and administrative decisions involving school law are carefully studied.

513.20 Corrective and Remedial Techniques in Reading
3 S.H. Class #G05 Period 1 Mr. Shepherd G210
Prerequisite: 313.012 or equivalent.
This course will consider the basic principles for a remedial program, methods of preventing reading difficulties, and methods and materials used in dealing with the remedial problems. Some of the topics to be studied will include: causes of poor reading, deficiencies in specific skills, individual and group instruction, results of remedial reading programs, appraisals of progress, case studies in remedial teaching.

513.25 Investigating Trends in Producing Audio-Visual Materials for Classroom Use
3 S.H. Class #G06 Evening (7:45-10:00) Mr. Romano L56
An operational working knowledge of audio-visual equipment and a knowledge of the philosophy of audio-visual in education is fundamental. Development of teaching materials within one's field, correlated with effective use of the same in the classroom will be the basic aim of the course. Content includes construction of photo transparencies, picture lifting, 2" by 2" slides, filmstrips, advanced tape recording techniques, microphone techniques, film boards, bulletin boards, chalk board technique, lettering instructional materials, trouble shooting equipment and administering an audio-visual program.

513.31 Advanced Study in Elementary School Language Arts
3 S.H. Class #G07 Period 2 Dr. Burke G210A
Prerequisite: 413.15 or equivalent.
Investigation of recent research and theory concerning the content and methodology of the language arts program in the modern elementary school. Study of emerging emphases in linguistics, the development of language, and the creative process as well as innovations in the teaching of listening, speaking, reading, writing, modern foreign languages, and in children's literature programs. Course conducted through discussion, group and individual study, and lectures from visiting specialists in these fields.
513.34 Linguistics: Utilization in Elementary Education
2 S.H. Class #G08 August 11-August 22 Dr. Stratemeyer G202
(8:30-11:30 and 1:00-3:00) Monday-Friday
Language as a component of culture; linguistic analysis of American English; implications of linguistic data for instructional materials and teaching methods. Designed for teachers, principals, and curriculum coordinators working in the elementary school.

513.40 Foundations of Education
3 S.H. Class #F20 June 9-June 27 Dr. Carroll G206
(Monday-Friday, 5:15-7:45)
Class #G09 Period 3 Dr. Carroll G206
This course will attempt to synthesize and integrate the contributions to education from the basic disciplines of history, philosophy, anthropology, psychology, religion, sociology, economics, and political science.

513.43 History of Education in the United States
3 S.H. Class #G10 Evening (7:45-10:00) Dr. Trowbridge G206
Traces American educational points of view and practices from colonial times to the Civil War; and from the Civil War to the present.

513.44 Current Issues and Trends in Education in the United States
3 S.H. Class #G11 Evening (5:15-7:30) Staff G210A
Identification and analysis of the major current issues and trends in education in the United States. Emphasis on the evolutionary nature of education. Search for forces underlying conflict and for probable consequences of present trends. Development of perspective in assessing the educational scene and acceptance of the challenge inherent in the American educational ideal.

513.45 Social Problems and Education
3 S.H. Class #G12 Evening (5:15-7:30) Mr. Jeffries G210
This course views the possibility of reform as a basic purpose of education. It presents a brief analysis of some of our modern social problems; crime, poverty, race conflict, family disintegration, etc., and the role that education might assume in proposed solutions.

513.47 The Politics and Economics of Public Education
3 S.H. Class #G13 Period 2 Dr. Carroll G206
This course will provide a depth examination of the political and economic factors and problems affecting decisions regarding public education.

513.49 Educational Ideas in Contemporary Literature
3 S.H. Class #F21 June 9-June 27 Dr. Charlton G202
(Monday-Friday, 5:15-7:45)
Examination of the writing dealing with the relationship between literature and education, with particular attention to contemporary writers.

513.51 Education and the Challenge of Communism
3 S.H. Class #G14 Period 2 Dr. Charlton R1
A comparative examination of the theory, structure and function of education in societies which are free and those that are not. American and Soviet systems will be used as contrasting points of view with special emphasis given to the threat of communism to a free school system.

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513.61 Introduction to Guidance and Counseling
3 S.H. Class #G15 Period 1 Dr. Stamm R3
Intended for graduate students seeking certification in Student Personnel Services. Major emphasis is on the applied psychology of the helping relationship. Student is expected to attempt to learn to behave in ways conducive to the optimal helping relationships within the class itself. Psychological theoretical review, necessary to explain expected class behavior is offered. Course content includes study of the goals, history, and present status of guidance. Examination of guidance resource materials.

613.02 Introduction to Research
3 S.H. Class #G16 Period 1 Dr. Yengo R2
This course is intended for graduate students in education and should be taken early in the graduate program. Chief emphasis is on understanding and interpreting research with lesser emphasis on research production. Course content includes examination and evaluation of current research, research design, and certain statistical concepts. Each student is required to submit individual evaluation and design in own area of specialization.

613.10 Advanced Trends in Elementary Education
3 S.H. Class #G18 Period 1 Dr. Franz G211
This course is designed for graduate students who are interested in the latest developments in the field of elementary education. It surveys the recent research and experimentation and attempts to predict future trends in elementary education according to past and present beliefs and practices. Among the various topics emphasized are (1) innovations in modern school and classroom design; (2) recent developments in the curriculum areas of language arts, social studies, sciences, cultural arts, and practical arts; (3) the present trend in evaluation, measurement, and promotion in the elementary school; and (4) a study of the controversial philosophies concerning heterogeneous grouping, departmentalization, team teaching, programmed instruction, etc.

613.95 Practicum-Seminar in Student Personnel Services
3 S.H. Class #G19 Period 3 Dr. Stamm R3
Designed for those students who have a basic understanding of the role and functions of Student Personnel Services in the total educational program. Each student is required to participate in an intensive first hand practicum experience in an area of Student Personnel Services. The practicum experience will be assigned and supervised by the college. Weekly class meetings will be devoted to the discussion and utilization of the students practicum experiences for the purpose of integrating their situational behavior with their intellectual understanding. A student must be matriculated to the graduate program in Student Personnel Services and be within eight semester hours of completing requirements for the Master's Degree in order to be admitted to the Practicum-Seminar. A terminal seminar required of all students in the Student Personnel Services program.

613.97 General Seminar in Elementary Education
3 S.H. Class #G20 Period 3 Dr. Burke G210A
For students not writing the thesis or field project. An examination of the techniques of educational research as well as the findings of noteworthy research studies in elementary education. The general comprehensive examination, required of all Master's Degree candidates not writing a thesis or field project, is given at the close of this course. The terminal seminar required of all students in the Elementary and E48 programs not writing a thesis.
**GEOGRAPHY**

515.50 Advanced Cartography  
3 S.H. Class #G21 Period 2 Mr. Hewitt R18  
Prerequisite: Undergraduate work in cartography.  
This course is planned to provide the graduate student with comprehensive understanding of maps, their uses, their development and the techniques and methods of reproducing them. Topics included are: historical cartography, problems and methods of research and compilation; scale and projection layout and design; the methods of reproduction and the role of aerial photography.

615.97 Seminar in Geography  
3 S.H. Class #G22 Period 3 Dr. Carney R18  
Emphasizes one or more of the following: (1) supervised individual reading in selected geographical sources, (2) analysis of the relationship of geography to the other social studies disciplines, (3) study of the techniques and procedures of geographical research, and (4) appraisal of the current developments in curriculum methods and instructional techniques in geography. Required of, and open only to, matriculated students in the social studies graduate program whose primary field of emphasis is geography.

**HEALTH AND PHYSICAL EDUCATION**

517.42 Theory and Practice of Physical Conditioning  
3 S.H. Class #G24 Period 1 Mr. Williams P104  
Investigation in depth of the scientific basis for physical conditioning work. Techniques and specific programs will be developed. Equipment and facilities will be studied.

517.47b Advanced Theory and Techniques in Sports and Activities (Field Hockey)  
2 S.H. Class #F22 June 16-June 27 Mrs. Fisher P101  
(Monday-Friday, 6:30-9:00)

517.47c Advanced Theory and Techniques in Sports and Activities (Aquatics)  
2 S.H. Class #F23 June 16-June 27 Dr. Runquist P103  
(Monday-Friday, 6:30-9:00)

517.47d Advanced Theory and Techniques in Sports and Activities (Soccer)  
2 S.H. Class #F24 June 16-June 27 Mr. Schmid P104  
(Monday-Friday, 6:30-9:00)

517.47f Advanced Theory and Techniques in Sports and Activities (Gym)  
2 S.H. Class #G25 Period 3 Mr. Williams P101

517.47g Advanced Theory and Techniques in Sports and Activities (Basketball)  
2 S.H. Class #G26 August 11-August 22 Mr. Baker P103  
(Monday-Friday, 6:30-9:00)

517.47h Advanced Theory and Techniques in Sports and Activities (Dance)  
2 S.H. Class #F25 June 16-June 27 Mrs. Dakak P108  
(Monday-Friday, 6:30-9:00)

517.47m Advanced Theory and Techniques in Sports and Activities (Racquet Sports)  
2 S.H. Class #G27 Evening (6:00-7:30) Mr. Brink P101
Investigation and application of recent information on theory, techniques, teaching and administrative procedures as they relate to specific sports, games, and activities in physical education. The specific area of study will be indicated by title and number modification each time the course is offered.

517.66 Curriculum and Program Construction in Health Education
3 S.H.  Class #G29  Period 2  Mr. Fassbender  P104
The selection and adaptation of a comprehensive health education program for children of various age levels. Desirable content for health units and administrative considerations are also discussed.

617.02 Foundations of Health and Physical Education Professions II
3 S.H.  Class #G30  Period 3  Dr. Fulton  P104
A continuation of H.P.E. 617.01, with opportunities for individual study and self-direction. The following areas will be included: creativity and communication, understanding and using research, identifying professional needs and problems, attracting and retaining quality physical educators, application of inquiry and investigation to future growth and development in the field. Planning an individualized Master's Degree program will begin.

617.37 Administration and Supervision of Physical Education in Schools
3 S.H.  Class #G23  Period 1  Mr. Van Ness  P103
Administration of physical education in elementary, junior, and senior high schools, including the organization of the prescribed physical education program, athletic programs, and intramural sports. Class scheduling, objectives, equipment, policies, in-service training of personnel, association with the teaching and administrative-supervisory staff, and general school and community relationships are discussed.

617.45 Developmental and Remedial Physical Education
3 S.H.  Class #G31  Evening (7:45-10:00)  Mr. Van Demark  P104
Centers upon the development of programs for meeting the individual physical fitness and social needs of pupils through physical education activities, including causation, case study techniques, developmental programs, posture and foot correction, relaxation procedures, remedial and restrictive programs, development of social traits, and administrative problems.

617.95 Professional Seminar
3 S.H.  Class #G32  Period 2  Dr. Runquist  P103
Designed as a culminating experience for the graduate student in health, physical education and recreation. The seminar will include discussions, lectures and guest speeches. Emphasis will be placed upon probable trends and future responsibilities of the individual and the profession. An effort will be made to insure that a sound philosophy and foundation has evolved from the student’s program of study.

HISTORY

518.25 The Age of Enlightenment
3 S.H.  Class #G33  Period 2  Mr. Faughnan  R10
An attempt to show students how much they may gain by approaching an era of history from several angles concurrently. They will examine the eighteenth century in its political, social, cultural, and philosophical aspects. They will review the ideas of John Locke and Newton and then read some major works of Montesquieu, Voltaire and Rousseau. They
will get acquainted with enlightened despots such as Frederick the Great, Joseph II, and Catherine the Great. They will investigate the coming of the Industrial Revolution in England and observe the cross-fertilization between American and French ideas in the last third of the eighteenth century.

518.90 Workshop in New Jersey History
3 S.H.  Class #G34  Period 3  Dr. Parks R8
A survey of New Jersey history from the colonial period to the present with workshop activities focused upon areas of special interest to the individual student: e.g., colonial life, development of agriculture or industry, government and politics, audio-visual materials, education, or others. Field trips are planned to provide first-hand knowledge of the material evidences of New Jersey's past and present: historical sites and buildings, museums, farms and factories, natural resources. New Jersey provides interesting and significant illustrations of almost every phase in the growth and development of the United States.

INDUSTRIAL EDUCATION AND TECHNOLOGY

519.01 History and Philosophy of Industrial Education
3 S.H.  Class #G35  Period 2  Dr. Alexander A56
Study of important events in the development of industrial arts and vocational education in the United States. History, objectives, practices, leaders in the field and their contributions.

519.02 Curriculum Construction in Industrial Education
3 S.H.  Class #G36  Period 3  Mr. Kabakjian A73
Study of principles and techniques of course construction based on the analytical, judgmental, experimental, and consensual procedures. Planning, organizing, building, using, and evaluating teaching guides.

519.30 Dynamics and Problems of Vocational Guidance
3 S.H.  Class #G37  Period 1  Dr. Brown A73

519.50 The Development of American Industries
3 S.H.  Class #G38  Period 1  Mr. Weber A36
The study of America's technological society, its development, contemporary patterns, and emerging concepts. Emphasis is placed on the role of technology in our culture and its complex effects upon the individual and institutions.

519.80 Cooperative Industrial Seminar
1 S.H.  Class #G39  By Arrangement  Mr. Laws
2 S.H.  Class #G40  By Arrangement  Mr. Laws
3 S.H.  Class #G41  By Arrangement  Mr. Laws
Advanced study and research in industrial plants and industrial training institutes. Opportunity for advanced study in contemporary industrial facilities not otherwise available to industrial arts teachers.

519.86 Industrial Education Workshop (Wood Technology)
3 S.H.  Class #G42  Period 3  Mr. Johnson A44
Development of deeper understanding of wood and wood products and proficiency in the use of wood and newer wood products and processes. Experiences with newer wood products and their utilization in typical school shop situations. Course developed around research and experimental approach to include such phases as high frequency gluing.
This special welding workshop is made possible through the cooperation of several leading manufacturers of welding equipment and supplies. Welding of all common metals by electric arc and oxyacetylene processes. Operation of gauges, tanks, torches, and various kinds of welding equipment with emphasis on modern safety practices. Strength of materials in welded joints. Technological developments of the welding industry. Design and testing of welded projects for industrial arts classes.

An advanced course for industrial education teachers. Topics covering the theory and principles of foundry methods, materials, tools and machines. Modern methods of molding including shell, carbon dioxide, and self-set will be emphasized as well as such casting processes as gravity and centrifugal. Several leading casting manufacturers have cooperated in the planning and development of this course. Opportunity will be provided for teachers to develop several of the most modern methods into activities appropriate to high school industrial education programs.

A study of advanced lithographic processes, materials, equipment and techniques. Participants will be given the opportunity to work with specialists from the offset printing industry, manufacturing representatives and other consultants.

Study of techniques employed in educational and industrial research. Interpretation and critical analysis of literature related to industrial arts. Prerequisites: 519.01, 519.02, 519.03.

Principles of evaluation applied to shop and drawing subjects. Construction of various evaluation devices and their application in industrial arts. Improvement of instruction in industrial education through recording, interpreting, and using the results of the evaluation.

Methods of gathering, organizing and using information about occupations through individual and group techniques. Preparation for assisting elementary and secondary school youth as well as adults orient themselves to the realities of the world of work.

A critical independent study of an aspect of Industrial Education of interest to the student that is explored under faculty guidance.

An original research or creative study under the guidance of a thesis committee appointed by the Graduate Council.
MATHEMATICS

521.05 Mathematical Logic
3 S.H.  Class #G50  Evening (7:45-10:00) Dr. Goldstein SM138
Study of propositions, quantifiers, Venn Diagrams, logical possibilities, truth tables, methods of proof, groups, fields, Boolean algebra.

621.30 Foundations of Geometry
3 S.H.  Class #H01  Evening (5:15-7:30) Dr. Haenisch SM139
Postulational methods are discussed and emphasized to give the student a vivid conception of the organic unity of mathematics. Typical topics: axioms for projective geometry; projective collineation and correlations; pole and polar theory.

621.96 Seminar in Elementary School Mathematics Education
3 S.H.  Class #H02  Period 1  Dr. Price SM102
In general this seminar is designed to take care of individual needs as much as feasible. Topics will include investigations of recent research in elementary school mathematics education; examinations of some of the newer mathematics programs, textbooks, standardized tests, preparation of teaching projects, courses of study, and evaluation instruments. Prerequisite: 313.01 Teaching Arithmetic in the Elementary Grades or 313.05 Teaching Arithmetic in the Kindergarten and Primary Grades.

621.97 Seminar in Mathematics Education
3 S.H.  Class #H03  Evening (7:45-10:00) Mr. Mcllroy SM115
Typical topics: impact of modern mathematics on secondary school programs, preparation of materials for teaching, analysis of college preparatory and non-college preparatory mathematics programs, analysis of textbooks and tests, study of a variety of proposals for modifying the high school mathematics program. Work from previous courses will be consolidated and applied to problems of teaching secondary school mathematics.

MODERN LANGUAGES

622.01 Languages and Music
3 S.H.  Class #H04  1:30-2:50  Mr. LoBue B125
The sounds of the important languages in music; the phonetic structure of Italian, French, and German. A semantic study of the foreign language terms of music. The problem of translation; the loss of the original force of a musical composition and its words.

MUSIC

523.04 Skills of Score Preparation
2 S.H.  Class #H05  10:30-11:20  Mr. Austin B129
The skills essential to the conductor in his preparation of a score for his rehearsal of a group form the subject matter of this course. Actual practice preparation for scores selected by the class will include sight-singing from the score, transcription, functional keyboard use of the score, thematic and form analysis as a rehearsal preparation, marking scores and editing scores for development of accurate rhythmic concepts and perception.

523.16 Orchestra Development I
2 S.H.  Class #H06  9:30-10:20  Mr. Berger B124
This course will present in detail steps to the development of excellent intonation, tone quality and rhythmic concepts, in a specified, organized approach to the playing of strings for orchestra. An approach to the muscular habits in sequence; habits which develop technical speed, good tone quality and excellent intonation, as well as advancing bowing habits for rhythmic and phrasing concepts is completely developed.
523.38 Voice Culture
2 S.H. Class #H07 9:30-10:20 Dr. Harrison B-Recital Hall
This course, using a singing approach, allows opportunity for the discovery and diagnosis of individual voice problems as well as the development of corrective techniques and processes. Appropriate vocalises and solo repertoire are used as materials both in developing the individual voice and as an approach to the development of artistic style.

523.65 Principles of Education in Instrumental Music (Strings)
2 S.H. Class #H08 8:30-9:20 Mr. Berger B124
This course presents basic principles of direct functional use in the development of a sound string program. Included are suggested mental processes, specific concepts for the teacher of motor movements and all essential disciplines. These are of direct functional use where scheduling is either on heterogeneous or homogeneous grouping.

523.67 Principles of Education in Vocal Music
2 S.H. Class #H09 8:30-9:20 Dr. Harrison B-Recital Hall
This course presents basic principles of functional use in the development of a voice program. Designed to meet voice teaching needs on all levels of learning and for all age groups, specific concepts for the teaching of voice, including all related essential disciplines and various means for their continuous development are established. The disciplines leading to proper habits of breathing, and breath control, vocal production and diction are taught and developed as a process for constructive teaching as well as to promote more efficient diagnosis of vocal problems. (This course must be taken concurrently with 523.38 Voice Culture.)

523.90 Small Ensemble Workshop (Vocal)
2 S.H. Class #H10 11:30-12:20 Dr. Myers B-Recital Hall
This course offers an opportunity for study of and participation in small vocal ensembles with emphasis upon the principles of singing and selection of materials for high school quartets, madrigal groups, and special small vocal groups. This course, through participation in the small ensemble activity, will demonstrate the contribution that the small vocal ensemble makes in the development of individual musicianship, the application of sound vocal habits and the fostering of acceptable leadership qualities through the “Vocal Experience.”

623.03 Developing Interpretative Insights
2 S.H. Class #H11 11:30-12:20 Mr. Austin B129
This course reveals various valid approaches to the interpretation of a musical composition. The various tools and their interpretative use as well as application and analysis of the contribution of individual lines to the musical force of the whole composition; implications and applications to rehearsal and practices as well as to actual concert conducting are a part of the course. Literature used consists of standard works that are practical in public school situations as well as more recently published works, also usable in public schools.

623.47 Advanced Conducting II
2 S.H. Class #H12 8:30-9:20 Mr. Austin B129
This is an advanced course in interpretative conducting with an emphasis on application of skills developed in the courses, “Devices of Musical Force” and “Developing Interpretative Insights.” This course continues and develops those processes initiated in 523.46.

623.71 Supervision and Administration of Public School Music
2 S.H. Class #H13 12:30-1:20 Mr. Berger B127
This course will examine the position of the music director within the total framework of the educational structure. Developing insights into the duties and responsibilities of administering the total public school music program will be considered as essential facets of supervision.
Emphasis will be placed upon improvement of instruction, curriculum guidance and development, analysis of values in human relations, the diagnosis of cooperative procedures, the evaluation of the teaching process as a responsibility of educational leadership.

623.80 Problems of the Marching Band
2 S.H. Class # H14 3:00-3:50 Mr. Isch B124
This course presents a complete process for the development of Marching Band work which serves rather than competes with valid music education goals. Every phase of the marching band is covered including festivals and contests. Of the thirty course hours, fifteen are allocated to problems brought to class by those enrolled. Some practical workshop experiences are included. A feature of the course is the development of football performances.

PSYCHOLOGY

525.40 Psychology of Learning
3 S.H. Class # H15 Period 3 Staff R11
3 S.H. Class # H16 Evening (7:45-10:00) Dr. Houston R3
Leading theories of learning and their experimental bases. Analysis of the role of learning in perception, motivation, and personality development.

625.08 Advanced Child Growth and Development
3 S.H. Class # H18 Period 2 Dr. Lide R12
A consideration of the concepts and theories from learning, developmental psychology and psychoanalytic ego psychology that have been particularly useful in clarifying the problems of child development, and have been fruitful in research on children. Important areas of scientific uncertainty and controversy discussed. Prerequisite: 6 hours of psychology including child psychology.

625.10 Psychological Problems of Children and Youth
3 S.H. Class # H19 Period 1 Dr. Houston R12
Examines developmentally the types of psychological disturbance appearing at various periods of growth from early childhood to maturity. Examines behavioral indicators of such disturbances and suggests techniques for coping with them. Introduction to their etiology. Prerequisite: 525.22 or its equivalent.

625.47 Measurement and Evaluation
3 S.H. Class # H17 Period 1 Dr. Lide R11
Selection, administration, and interpretation of standardized group evaluation instruments commonly used in education, psychology, and guidance. Introduction to individually administered measures in educational and vocational advisement. Stress on professional obligations of users of evaluation instruments. This course requires acquaintance with the basic principles of descriptive statistics.

SOCIOLOGY

527.04 The Community: Its Social and Organizational Structure
3 S.H. Class # H20 Period 3 Dr. Gillen R16
Prerequisite: 227.01 Community and Society, or equivalent.
An analysis will be made of the structure and dynamics of the community in both its formal, institutional aspects and its more informal, associational aspects. Economic, political, religious, racial and ethnic, status, cultural, and ameliorative forces will be studied to note the effects they have upon the young. Particular attention will be directed to those voluntary community agencies aiming to serve families and the young in particular.
527.05 Social Pathology and the Student
3 S.H. Class #H21 Period 1 Dr. Lichtenberg K205
An examination of factors such as family tensions, neighborhood deterioration, poverty and dependency, vice and crime, racial and ethnic conflict, excessive mobility and alcoholism and drug addiction which contribute to socially and emotionally disturbed children and youth. Attention will be paid to the amelioration of these problems and with ways of more positive adaptation to them. Whenever relevant and available consultants will be used.

527.20 Teacher in Today's Society
3 S.H. Class #H22 Period 1 Dr. Wolcott R18
The purpose of the course is to examine some of the research data and consider some of the significant questions raised by sociologists concerning the role and status of the teacher in the social structure of the school, the community, and the larger society. Some of the topics for consideration are: changes in the status of the teachers, comparisons with other professions, the role of professional organizations, social pressures upon teachers, stereotypes of teachers, leisure time activities of teachers, the social responsibilities of the teaching profession, and the nature of a faculty as a social system. Reading, group analysis, collection of data, and conferences with consultants will be the methods used.

527.33 Analysis and Resolution of Group Conflicts
3 S.H. Class #H23 Period 2 Dr. Wolcott R14
An examination of the social functions of conflict, of the dangers involved in its inadequate control, and of efforts directed to the reduction of conflict. Conflicts between religious, racial, ethnic, and class groups, as well as war, will be studied as examples of conflict. Prerequisite: 3 hours of Sociology.

SPECIAL EDUCATION

529.20 Learning and Behavior Problems of Handicapped Children
3 S.H. Class #H24 Period 3 Miss Richards R12
Prerequisite: Introductory course on the Exceptional Child.
The learning and behavior characteristics of handicapped children will be reviewed. Special emphasis will be put on the inter-related aspects of emotional, intellectual and physical development as they are effected by sensory, perceptual, and motor disabilities, especially those resulting from neurological dysfunction. Etiology and developmental characteristics will be discussed as they are relevant to understanding behavior and learning problems.

529.22 Curriculum and Methods I (For Teaching the Handicapped
At Primary-Intermediate Levels)
3 S.H. Class #H25 Period 2 Mr. Feehan *Grant School
Prerequisite or concurrent: 529.20.
This course is designed to present a thorough understanding of curricula models, methods and materials appropriate for teaching children with developmental learning handicaps at primary-intermediate levels. Modification and innovation in teaching techniques will be stressed. Established and experimental curricula models will be thoroughly investigated. Demonstrated and contemporary teaching material will be presented with particular emphasis in diagnostic teaching and remediation of learning handicaps.

* Students will be provided travel time to get to campus for the third period.
629.70 The Culturally Deprived Child (Behavior and Learning Problems)
3 S.H. Class #H26 Period 3 Mrs. McRae R13
Prerequisites: Community and Society or equivalent; 325.05 Child Psychology or Developmental Psychology or equivalent.
"Culturally deprived" children and youth—often identified as mentally retarded, slow learner, socially and emotionally maladjusted, and the core of the school dropout problem—will serve as the center of concern. Emphasis on the practical and immediate approach by the public schools in meeting the educational needs of these children. An integrated community approach utilizing consultants from municipal planning and urban renewal programs, social agencies, rehabilitation and employment services, and others.

629.11 Guidance and Rehabilitation of Exceptional Children and Youth
3 S.H. Class #H27 Period 1 Mrs. McRae R14
Prerequisite: 529.06 or equivalent.
Principles and practices of the guidance and rehabilitation process for exceptional children and youth with particular emphasis on evaluation, training, placement, and counseling. The role of the special educator; psychologist; social worker; guidance counselor; physical, occupational and speech therapist; physician; and others on the interdisciplinary team serving exceptional children and youth will be explored. The resources of schools, clinics, residential centers, sheltered workshops, and other public and private agencies serving exceptional children and youth will be identified.

629.26 Seminar and Practicum in Diagnostic Procedures
4 S.H. Class #H28 8:30-10:15 Mr. Hritz R16
Prerequisite: 529.20.
This seminar will study the principle diagnostic problems and procedures encountered in evaluating and understanding the individual behavior and learning difficulties of children with developmental learning handicaps. Techniques of assessment and interpretation of individual deviations in intellectual development, social-emotional adjustment, perceptual-motor skills, language development, and educational achievement and aptitude will be the focus of concern. The course will seek to illustrate how various diagnostic techniques can contribute to the teacher’s understanding of individual behavior. Also, the role of the teacher and the learning disability specialist in diagnosis of learning problems will be stressed. The student will be expected to gain a working acquaintance with the more frequently used diagnostic procedures, functioning as a participant-observer in the evaluation of individual children by a diagnostic team. A minimum of 90 clock hours of practicum experience will be required.

629.68 Biophysical and Neurological Problems of Children
3 S.H. Class #H29 Period 1 Dr. Lemeshow R17
Prerequisite: 529.20.
Designed to aid school personnel (1) to recognize biophysical and neurological defects in children, (2) to understand their etiology, (3) to become familiar with resources and methods available both within and outside the school for diagnosis, treatment and rehabilitation, and (4) to gain a fundamental understanding of current educational programming for these children. Medical, psychological, and educational developments will be explored on an interdisciplinary basis.

629.91 Research Trends I (On Intellectual and Achievement Deficits in Handicapped Children)
3 S.H. Class #H30 Period 2 Dr. Lemeshow R13
Identification and analysis of the current issues and problems in the field of mental retardation through critique of research studies. Required of, and open only to, matriculated students in the graduate program in mental retardation. Culminates in either a comprehensive examination
or the selection of a thesis topic. Is the terminal course in the program for students electing the option of the comprehensive examination. Students electing the thesis option will follow this course with registration in 629.99 Thesis.

629.93 Research Trends III (On Social-Emotional Behavior Problems in Handicapped Children)
3 S.H. Class #H31 Period 2 Staff R11
Identification and analysis of the current issues and problems in the field of social and emotional maladjustment through critique of research studies. Required of, and open only to, matriculated students in the graduate program in social and emotional maladjustment. Culminates in either a comprehensive examination or the selection of a thesis topic. Is the terminal course in the program for students electing the option of the comprehensive examination. Students electing the thesis option will follow this course with registration in 629.99 Thesis.

629.97 Independent Study
1 S.H. Class #H32 By Arrangement Staff
Prerequisite: Instructor permission.
This course is designed to encourage students to explore independently a specific topic in depth under the individual supervision of a faculty member. Such a study could include a unique case study, exploration of a potential research topic, extensive reading in an area of interest, participation in department or inter-agency clinics, grant projects, forums, workshops, etc., or such other independent studies that would contribute to the professional growth of the student. May be repeated with permission of instructor.

629.98 Department Project in Special Education
3 S.H. Class #H33 By Arrangement Staff
A critical independent study of an aspect of Special Education of interest to the student that is explored, under faculty guidance.

629.99 Thesis/Creative Project in Special Education
6 S.H. Class #H34 By Arrangement Staff
An original research or creative study under the guidance of a thesis committee appointed by the Graduate Council.

BIOLOGY

532.42 Parasitology Mr. Stromberg
3 S.H. Class #H40 Monday and Tuesday SM217 6:00 P.M.-9:30 P.M. Thursday, 6:00 P.M.-9:00 P.M.
Prerequisite: General College Biology or its equivalent.
This course is designed to acquaint the student with the protozoan and helminthic parasites important to man’s welfare. The laboratory will emphasize the taxonomy and morphology of important parasites as well as important arthropod vectors and certain pathological aspects of parasitic diseases.

632.71 Ecology and Evolution Mr. Rockel
3 S.H. Class #H39 Monday and Tuesday SM217 3:00 P.M.-5:00 P.M. Wednesday and Thursday 2:00 P.M.-5:00 P.M.
Prerequisite: General College Biology or equivalent.
Living organisms will be considered from the viewpoint of their inter-relationships with the environment. Emphasis in the field work will be on the diversity found within each individual biotic group as its habitat varies. Adaptations of the individual organism to varied habitats and the ensuing modifications within the group will be the focal point. There will be opportunity for some original research.
This course will trace the evolution of twentieth century science from the science of ancient civilizations to the present. It will show how the scientific revolution of the sixteenth and seventeenth centuries influenced the philosophy and social structure of the time.

The nature and importance of scientific methods and attitudes and their development will be considered.

The function of science as an agent of industrial and intellectual change will be stressed.

A course designed to include an extended discussion of the descriptive chemistry of the ions as well as the laws governing the behavior of solutions. In the laboratory suitable procedures will be studied for the separation and identification of ions on a semi-micro basis.

Prerequisite: General College Chemistry.

A study of chemical and physical principles applied in modern technology as shown in a number of industrial plants and public utilities. Approximately ten afternoon field trips are an integral part of the course. Enrollment is limited to 24 students.

Simple harmonic motion, vibrating strings, vibrations of bars, acoustic plane waves, transmission phenomena, resonators, filters, piezoelectric and magnetostrictive transducers, microphones, ultrasonics.

Designed to acquaint the science teacher with recent developments in science education. Included will be a study of recent courses of study, research papers and articles in science education journals. An effort will be made to insure that each student develops a sound philosophy of science teaching.

This course will combine (1) a philosophic approach to the introduction of the creative process and aesthetic principles which dominate the related art fields, with (2) related art laboratory experiences using attributes of color, movement, sound, form, and space. Both students and teachers will be involved as participants and spectator-evaluators. Emphasis will be on creative expression, forms of communication, and implications for enriched living.
NEW JERSEY STATE  
SCHOOL OF CONSERVATION  
John J. Kirk, Director  
SUMMER SESSION 1969  

PROGRAM  
Program offerings at the School of Conservation include:  
(1) Teacher Education as an on-going part of the six state colleges.  
(2) Cooperative Demonstration Outdoor Education and School Camping Programs with public school systems on elementary, junior high and senior high school levels during the school year.  
(3) Undergraduate and in-service courses during June, July, and August.  
(4) Summer Youth Conservation Program during July and August.  
(5) Workshops, Conferences, and Weekend Groups throughout the year (College and Conservation-minded groups have preference).  

COURSE OFFERINGS  

**June 9-18**  
**Biology 203**  
Introduction to Field Biology  
Instructor: Dr. S. Marie Kuhnen  
Dr. Paul Shubeck  

**August 13-22**  
**Education 440**  
Outdoor Education and Camping  
Instructor: To be announced  

**Education 480**  
Field Science for Elementary Teachers  
Instructor: Mr. Robert Fitzmaurice  

**July 7-August 15**  
**Education 517.97C**  
Practicum in Outdoor Education and Conservation  
Instructor: Dr. Arthur H. Cook  
Dr. John J. Kirk  

**Science 405**  
Field and Laboratory Studies in Science  
Instructor: Dr. Arthur H. Cook  
Mr. Jerry T. Schierloh  

**June 22-August 23**  
**Education 443**  
Practicum in Camping Education  
(For Camp Staff Only)  
Instructor: Dr. John J. Kirk  

**Education 444**  
Practicum in Conservation Education  
(For Camp Staff Only)  
Instructor: Dr. John J. Kirk  

LOCATION  
The School of Conservation is located in Stokes State Forest. It borders Lake Wapalanne and is about nine miles northwest of Branchville, off Route 206, in Sussex County, New Jersey. It is accessible by hard surfaced roads.  

MAILING ADDRESS  
For information and application write to:  
Dr. John J. Kirk, Director  
New Jersey State School of Conservation  
Branchville, New Jersey
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To complete registration by mail:

1. Detach Registration Card (X100) along perforation.
2. Complete both sides of the registration card accurately and completely.
   a. Course data must be printed exactly as listed in the catalog.
   b. Complete all information requested concerning college status, certification, residence, employment and objective.
3. Enclose check or money order only (payable to Trenton State College) for the exact amount of tuition and fees.
4. Sign the registration card and mail to Summer Session Office, Trenton State College, Trenton, N. J. 08625.

Mall registration will not be honored or accepted if received after May 15, 1969.

ALL STUDENTS REGISTERING FOR GRADUATE COURSES MUST REGISTER IN PERSON.
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