1970 SUMMER SESSION CALENDAR

*PRE-SESSION: June 8-June 26
REGULAR SESSION: June 29-August 7

June 29 Classes begin
August 7 Last day of classes for the regular session

UNDERGRADUATE

* Mail Registration

**May 6-13 Undergraduate courses only

Registration

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, June 22</td>
<td>1:00 P.M. - 8:00 P.M.</td>
</tr>
<tr>
<td>Tuesday, June 23</td>
<td>1:00 P.M. - 8:00 P.M.</td>
</tr>
<tr>
<td>Thursday, June 25</td>
<td>10:00 A.M. - 4:00 P.M.</td>
</tr>
<tr>
<td>Sunday, June 28</td>
<td>10:00 A.M. - 4:00 P.M.</td>
</tr>
<tr>
<td>Friday, August 7</td>
<td>2:00 P.M.</td>
</tr>
<tr>
<td></td>
<td>7:00 P.M.</td>
</tr>
</tbody>
</table>

Late registration and program changes: $5.00 fee applies
Residence Halls open
Residence Halls Closed

GRADUATE

*Pre-Registration

Monday, May 4 through Friday, May 15
(Tuesday and Thursday) 6:00 P.M. - 7:30 P.M.

Graduate Pre-registering for Summer Session

Registration and Advisement

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, June 19</td>
<td>3:30 P.M. - 8:00 P.M.</td>
</tr>
<tr>
<td>Saturday, June 20</td>
<td>9:00 A.M. - 12:00 Noon</td>
</tr>
<tr>
<td>Monday, June 22</td>
<td>3:30 P.M. - 8:00 P.M.</td>
</tr>
</tbody>
</table>

Graduate Registration for matriculated students at Trenton State College
Graduate registration for 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 for pre-session courses must be completed during the May 4-15 pre-registration period and the May 6-13 mail registration.
** Mail registration completed incorrectly or received after May 13 will be returned.
*** Course changes may be made only during this period.

INFORMATION IN THIS BULLETIN IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE
NOTICE

1. Some of the information on the inside front cover is incorrectly printed and misleading. The following is correct:

**UNDERGRADUATE**

**Registration**

<table>
<thead>
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</tr>
</tbody>
</table>

Late registration and program changes: $5.00 fee applies

Residence Halls Open

Residence Halls Closed

The rest of the information is correct.

2. **Social Security Numbers** - Although it is not indicated, your Social Security Number must be on the front of your registration card in the lower right-hand corner. Registration cards cannot be accepted without Social Security Numbers.
EDWARD E. BOOHER, Chairman ...................................... Cranbury
DR. WILLIAM O. BAKER .............................................. Madison
JOHN T. CONNOR ....................................................... Morristown
MAXINE COLM, ex officio ............................................. Haddonfield
C. DOUGLAS DILLON ..................................................... Bedminster
MRS. JOHN H. FORD, Vice Chairman ............................... Cresskill
DONALD C. LUCE ......................................................... Plainfield
MORRIS FUCHS ........................................................... East Orange
V. D. MATTIA, M.D., ex officio ................................. Upper Montclair
DR. WILLIAM H. McLEAN, ex officio ......................... Short Hills
DR. EDWARD J. MEADE, JR., ex officio .............. Upper Montclair
JOHN M. SEABROOK ........................................ Salem
GEORGE F. SMITH, ex officio .................................................. Metuchen
DR. DEBORAH CANNON WOLFE ................................. Cranford
FREDERICK O. ZIEGLER, ex officio ......................... Columbus
RALPH A. DUNGAN, ex officio

Chancellor of Higher Education, Princeton

DR. CARL L. MARBURGER, ex officio

Commissioner of Education, Trenton
MEMBERS OF THE TRENTON STATE COLLEGE BOARD OF TRUSTEES

Frederick D. Rosi, Ph.D., Chairman ................................ Princeton
Charles E. Farrington, LL.B., Vice-Chairman ................. Princeton
Thomas H. Bowen ......................................................... Salem
James M. Howard, Jr., A.M. ........................................... Blairstown
Stephen Girard Lax, LL.B. ........................................... Haddonfield
Minot C. Morgan, Jr., M.A., Secretary ......................... Princeton
Lenore Vaughn-Eames, Ed.D. ........................................ Stockton
Robert F. Wentworth .................................................... Madison
Mrs. Ronald Stewart ..................................................... Moorestown

COLLEGE ADMINISTRATION

Clayton R. Brower, Ed.D. ........................................... Acting President
Jack E. Lyons, A.B. Vice President, Administration and Finance
Jere D. Paddack, Ph.D. ........................................ Dean, Student Personnel Services
Thomas R. Kinter, B.S. ........................................... Director of Business Services
Bernard A. Reed, Ed.D. ........................................ Director of Admissions
Lamond H. Smith, Ed.M. ........................................ Director of Continuing Education
Dorothy G. Petersen, Ed.D. ...................................... Chairman, Graduate Study
Felix E. Hirsch, Ph.D. ........................................... Librarian
Merton W. Hutton, M.A. ........................................ Registrar
Tod H. Herring, Ed.D. ........................................ Director, Institutional Planning
Michael S. Kline, Ed.D. ........................................ Director, Student Teaching and Placement
B. Randolph Linthurst, B.S., ................................ Coordinator of Public Relations
Charles Frazier, M.S. ........................................ Director, Community Affairs
Henry H. Matelson, M.A. ........................................ Director of Computer Services
James M. Orr, M.A. ........................................ Director of Academic Advisement and Evaluation
Rodney Cookman, M.A. ........................................ Assistant to the President

SUMMER SESSION STAFF

Lamond H. Smith ....................................................... Director
Karl Gottesman ...................................................... Assistant Director
Carl A. Kredatus .................................................... Assistant Director
Sidney O. Murdock .................................................. Assistant Director
Edith G. Garrison .................................................. Academic Counselor
William Neil ........................................................... Academic Counselor
THE COLLEGE

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 115-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 second floor of Green Hall.

KENDALL HALL, recently redecorated and refurnished with 1,000 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.
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 88½ 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.
CURRICULA

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 curricula 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 in to 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.
GENERAL INFORMATION

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 Bray Hall or by mail. Registration for graduate courses must be done in person.

Mail registration is encouraged for students who need specific courses to complete certification and/or degree requirements by the end of the summer session. 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 (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

Pre-Session: June 8 - 26 (3 weeks)
Classes will meet Monday through Friday from 6:00 to 8:30 P.M.
(2 S.H. courses will meet from June 15 to 26)

Regular Session: June 29 - August 6 (6 weeks)
Day Classes meet Monday, Tuesday, and Thursday

Period 1 — 8:00 to 10:05 A.M.
Period 2 — 10:30 A.M. to 12:35 P.M.

Evening Classes meet Monday, Tuesday, and Thursday
Class periods normally meet as follows:

Period 3 — 5:15 to 7:20 P.M.
Period 4 — 7:35 to 9:40 P.M.

Days and times for courses which do not conform to the above schedules will be specifically indicated under the course titles.
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 and Distributive 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
- Sociology: 27
- Speech Pathology and Audiology: 28
- Special Education: 29
- Biology: 32
- Chemistry: 33
- Physics: 34
- Speech and Theater: 38
- Interdisciplinary: 50
- International Studies: 60
TUITION AND FEES

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>Before June 29</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Between June 29 and July 11</td>
<td>60%</td>
<td>60%</td>
</tr>
<tr>
<td>Between July 12 and July 18</td>
<td>30%</td>
<td>30%</td>
</tr>
<tr>
<td>From July 19 on</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

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 OF 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. An auditor may not elect to receive credit for a course after classes begin. 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” marks 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.
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 18, 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 AND FOOD SERVICE FEES

The cost of room and board (3 meals a day, 7 days a week) in the residence halls will be $166.68 for the entire six-week Summer Session, June 28 - August 7. The charge for a single week or part of a week beginning on any Sunday will be $27.78.

Students may pay room rent only without meals. Room rental only for six weeks is $88.68.

Meals will be available for individual cash purchase. At the time the summer bulletin went to press, meal prices were:

<table>
<thead>
<tr>
<th>Meal</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breakfast</td>
<td>.55</td>
</tr>
<tr>
<td>Lunch</td>
<td>.85</td>
</tr>
<tr>
<td>Dinner</td>
<td>1.40</td>
</tr>
<tr>
<td>Steak dinner</td>
<td>1.65</td>
</tr>
</tbody>
</table>

Negotiation or renewal of the food contract in the late spring will undoubtedly result in increased prices. These prices should be available after June 1 upon request at the Housing Office at the college.

PERIOD OF SUMMER OCCUPANCY

Residence halls will be open for Summer Session at 4:00 P.M., Sunday, June 28. Rooms will be ready for occupancy at that time. Residence halls will close on Friday, August 7 at 7:00 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 of 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 $3.00 per night.

DINING HALL

The first meal served to residents will be the evening meal on Sunday, June 28. The last meal served will be dinner on Friday, August 7. Commuters may purchase single meals in the Dining Hall. The college dining hall is not organized to provide special diets.

DINING HALL MEAL SCHEDULE

Weekdays
Breakfast  7:00 - 8:00
Lunch      12:00 - 1:30
Dinner     4:30 - 6:00

Sundays
Breakfast  8:00 - 8:30
Dinner     12:30 - 1:00
Supper     5:15 - 6:15

(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 students enrolled in the summer session 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 a new relocatable building.

The business hours are:
Monday-Friday  9:00 A.M. - 6:00 P.M.
During first week of school 9:00 A.M. - 8:00 P.M.

LIBRARY HOURS

During the 1970 Summer Session the following Library hours will be in effect:
Monday-Friday  8:00 A.M. - 9:30 P.M.
Saturday    8:00 A.M. - 1:00 P.M.
Sunday and July 4th Closed
ART

110.25 Foundations of Art 3 S.H.
Class #7201 Regular Day Per. 2 Burns Rm. 16-105
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. Opportunities for students to explore pictorial art, ceramics, printmaking, sculpture, jewelry, textile design.

210.25 Printmaking I 3 S.H.
Class #7401 Regular Evening Per. 4 Demarais Rm. 16-3
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 #7001 Pre-Session Lehman Rm. 16-7
Class #7202 Regular Day Per. 2 Kern Rm. 16-7
Class #7301 Regular Evening Per. 3 Lehman Rm. 16-7
Prerequisite: 110.25 or permission of the instructor.
Brief survey of the evolution of pottery, enabling the student to select and appreciate form, color and decoration. Practical exploration of the properties and possibilities of clay and glazes for use in a personal statement.

313.04 Teaching Art in the Elementary Grades 3 S.H.
Class #7002 Pre-Session H. Goldstein Rm. 16-107
Class #7101 Regular Day Per. 1 Kern Rm. 16-107
Class #7402 Regular Evening Per. 4 H. Goldstein Rm. 16-107
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

211.05 Accounting Principles I 3 S.H.
Class #7302 Regular Evening Per. 3 Staff Rm. 16-219
The basic course in accounting. Emphasis on a thorough understanding of the accounting cycle.

311.05 Business Law I 3 S.H.
Class #7403 Regular Evening Per. 4 Staff Rm. 16-219
The needs of law to protect rights and liberties of the individual in his business and personal relationships. Sources of law and the courts. Emphasis placed on contracts and agency.
311.12 Marketing Principles 3 S.H.
Class #7432 Regular Evening Per. 4 Shenker Rm. 16-220
Functions, institutions, and problems of marketing examined from the viewpoint of
their effect on distribution of goods.

313.28 Secretarial Methods 2 S.H.
Class #7003 Pre-Session June 15-26 Staff Rm. 16-215
Prerequisites: 211.11, 311.01, 311.02.
Problems of teaching shorthand and office practice. (Secretarial office practice, clerical
office practice, and office machines.) Teaching methods and techniques. Aims and ob­
jectives, lesson plans, demonstrations, observations, and lessons. Testing and grading.
Analysis of teaching aids and materials.

313.32 Typewriting Methods 2 S.H.
Class #7004 Pre-Session June 15-26 Staff Rm. 16-219
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 tech­
niques.

413.24 Methods of Teaching Distributive Education 3 S.H.
Class #7102 Regular Day Per. 1 Robinson Rm. 16-220
A study of methods of teaching distributive education, using curriculum materials,
audio-visual aids and library facilities, planning, developing, teaching and evaluating
effective techniques in the teaching process.

ECONOMICS

112.06 Principles of Economics II 3 S.H.
Class #7404 Regular Evening Per. 4 Chae Rm. 32-6
Micro-economics: The theory of pricing and distribution under various market con­
ditions. Government intervention in the market. Comparison of free enterprise with
alternative, existing economic systems.

EDUCATION

213.01 Guiding the Learning Experiences of Young Children 3 S.H.
Class #7005 Pre-Session Hinds Rm. 32-1
Study of the characteristics and needs of young children. Significance of experience
to child growth and development. The role of the teacher in guiding learning. Basic
principles and practices in teaching young children. Observation and participation
in a Nursery School or a Day Care Center.

213.25 Improving Reading and Study Skills 3 S.H.
Class #7103 Regular Day Per. 1 Walthew Rm. 16-210A
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.
* Enrollment limited to students completing 11th or 12th grades and recent high school
graduates.
313.02 Teaching Reading in the Elementary Grades
Class #7104 Regular Day Shepherd Rm. 16-202
Class #7303 Regular Evening Shea Rm. 16-202
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.

313.03 Teaching Modern Math in the Elementary School
Class #7011 Pre-Session McLaughlin Rm. 34-115
Class #7205 Regular Day Ehrenpreis Rm. 34-115
Class #7306 Regular Evening Ehrenpreis Rm. 34-115
Prerequisite: 121.01 Foundations of Mathematics or equivalent.
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.

313.06 Teaching Social Studies in the Elementary Grades
Class #7105 Regular Day Carman Rm. 36-222
Class #7405 Regular Evening Shea Rm. 16-202
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.

313.12 Introduction to Audiovisual Communications
Class #7006 Pre-Session Herrick Rm. 34-201
Class #7203 Regular Day Rogosky Rm. 34-201
Class #7304 Regular Evening Romano Rm. 34-201
Use of modern instructional materials and devices for improving instruction. Includes study in the selection, utilization, and evaluation of various types of instructional materials and effective utilizations of associated projection and audio equipment. Reference is made to innovative procedures currently in use in all areas of education.

313.60 Development of Educational Thought
Class #7007 Pre-Session Jeffries Rm. 32-11
Class #7008 Pre-Session Messina Rm. 32-12
Class #7305 Regular Evening Jeffries Rm. 32-1
Class #7406 Regular Evening Jeffries Rm. 32-1
Examination of philosophic assumptions and beliefs in terms of relationships to the development of educational philosophy and 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.
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.

This course is designed to assist pre-service teachers in defining their role in educating children in inner city areas and to suggest approaches to teaching and the use of materials for children in inner city schools.

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.

Preparation of a wide variety of visual materials, such as mounted pictures, transparency development and other types of graphics for teaching purposes. A utilization demonstration using materials produced in class is the concluding activity. A modest lab fee is charged.

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.

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.

A lecture-laboratory course in television studio production: television camera operation, basic principles of lighting, sound for television, elements of television set design, functions of floor director, control room operations and basic television directing.
413.97 Seminar in Supervised Teaching
(Part 1) M-F 6 S.H.
Class #7110 Regular Day Per. 1 & 2 Elementary Staff TBA
Class #7111 Regular Day Per. 1 & 2 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.

ENGLISH

114.01 Language and Communication 3 S.H.
Class #7112 Regular Day Per. 1 Murray Rm. 32-3
Class #7309 Regular Evening Per. 3 Novick Rm. 32-2
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. Required for all students.

214.01 World Literature I 3 S.H.
Class #7209 Regular Day Per. 2 Thomas Rm. 32-3
Class #7408 Regular Evening Per. 4 Hanley Rm. 32-2
Prerequisite: 114.01.
American and English literature; European and Asiatic literature in translation. Reading of novels, plays, 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 #7113 Regular Day Per. 1 Hannold Rm. 32-6
Class #7310 Regular Evening Per. 3 Liddie Rm. 32-3
Prerequisite: 114.01.
American and English literature; European and Asiatic literature in translation. Reading of novels, plays, philosophy, and religious writings, grouped by subjects, theme, mood, or genre, rather than by language, nationality, or chronology.

214.05 Introduction to Poetry 3 S.H.
Class #7013 Pre-Session Mehlman Rm. 16-212
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.

214.11 Form and Idea in English Literature I 3 S.H.
Class #7210 Regular Day Per. 2 Wood Rm. 32-6
Prerequisite: 114.01.
A study of selected works of major English writers and their milieu from the Anglo-Saxon Age to the Restoration Period.

214.21 Afro-American Literature 3 S.H.
Class #7409 Regular Evening Per. 4 Ekizian Rm. 32-12
Prerequisite: 114.01.
A study of selected literary works by and about black Americans from slavery to the present day.
### 214.25 The Short Story

**Class #7014** Pre-Session

3 S.H.  
Bearer Rm. 16-214

Prerequisite: 114.01.

Critical examination of the short story as a type of literature. Study of stories by such authors as Melville, Poe, Joyce, Kafka, Hemingway, Faulkner, Roth, Updike, Hawthorne, Chekov.

### 314.20 Modern American Literature

**Class #7114** Regular Day

3 S.H.  
Myers Rm. 32-9

Prerequisite: 114.01.

Study of works by Hemingway, Faulkner, O'Neill, Eliot, Frost, and other significant American writers of the last 50 years, with emphasis on the developing cosmopolitan and international aspects of American literature.

### 314.30 Shakespeare

**Class #7311** Regular Evening

3 S.H.  
Erath Rm. 32-12

Prerequisite: 214.01-02.

Reading of a selected list of comedies, tragedies, and historical plays of Shakespeare. Required for all English majors.

### GEOGRAPHY

#### 115.01 Physical Environment and Man

**Class #7115** Regular Day  
**Class #7312** Regular Evening

3 S.H.  
Veldof Rm. 32-15  
Veldof Rm. 32-15

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.

#### 215.02 Cultural Geography of the Contemporary World

**Class #7211** Regular Day

3 S.H.  
Casper Rm. 32-15

Varied contemporary cultural regions analyzed to show similarities and diversities basic to recognition, worth and interdependence of developed and developing nations. Knowledge of theories and data of selected social sciences necessary to understanding the dynamics of a rich, complex world.

#### 315.01 Anglo-America, East

**Class #7116** Regular Day

3 S.H.  
Hewitt Rm. 32-17

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.

#### 315.05 Anglo-America, West

**Class #7410** Regular Evening

3 S.H.  
Hewitt Rm. 32-17

Prerequisite: 115.01. Physical Environment and Man.

Study and interpretation of major geographic regions of western United States and Canada. Development of cultural environment in relation to the natural environment. Intensive study by each student of a selected region requiring knowledge and evaluation of professional materials and references.
315.30 Latin America 3 S.H. Turk Rm. 32-18
Class #7212 Regular Day Per. 2

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.

415. Map Interpretation 3 S.H. Strasser Rm. 32-18
Class #7015 Pre-Session

This course will develop critical judgment concerning graphic elements of a map, introduce research techniques used in the compilation of data and review the significance of new developments in the field such as electronic sensing and computer mapping. Maps will be analyzed to reveal the spatial dimension of natural and cultural responses as identified geographically.

POLITICAL SCIENCE

116.05 American Government 3 S.H. Wills Rm. 32-13
Class #7313 Regular Evening Per. 3

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 interrelationships of the different levels of government will be presented and analyzed.

216.10 Political Parties and Elections 3 S.H. Huntoon Rm. 32-14
Class #7411 Regular Evening Per. 4

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. Cheng Rm. 32-13
Class #7412 Regular Evening Per. 4

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 Contemporary Health Problems 3 S.H. Fulton Rm. 21-205
Class #7117 Regular Day Per. 1

Scientific discovery and recent progress in health science as an approach to the solution of health problems. Health is considered as a means to effective living and self-evaluation is encouraged.

217.25 Anatomy and Physiology 3 S.H. Oshel Rm. 28-101
Class #7118 Regular Day Per. 1-2 (6/29-7/17)

Structure and function of the various human tissues pertinent to the professional preparation for teachers in health and physical education.

217.26 Anatomy and Physiology 3 S.H. Oshel Rm. 28-101
Class #7119 Regular Day Per. 1-2 (7/20-8/6)

Continuation of 217.25
317.01  Kinesiology  3 S.H.
Class #7213  Regular Day  Per. 2  McCorkle  Rm. 28-103
Prerequisite: 217.25-26.
Principles and mechanism of body movement.

317.25  Evaluation in Health & Physical Education  3 S.H.
Class #7120  Regular Day  Per. 1  McCorkle  Rm. 28-103
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 & Narcotics Workshop  2 S.H.
Class #7016  Pre-Session  June 15-26  Herzstein & Fassbender  Rm. 32-4 & 6
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 #7017  Pre-Session
Class #7214  Regular Day  Per. 2  Brink  Rm. 28 Gym I & II
Class #7314  Regular Evening  Per. 3  Brink  Rm. 28 E. Gym
Theory and practice of health, safety, and physical education in the elementary school physical education program.

413.90  Driver Education and Training Workshop  3 S.H.
Class #7506  May 25, 27, 29;
June 1, 3, 5  4:00 p.m. - 7:30 p.m.
June 8-12  9:00 a.m. - 4:30 p.m.
Class #7507  June 15-July 2  9:00 a.m. - 3:30 p.m.
Class #7508  July 6-July 23  9:00 a.m. - 3:30 p.m.
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.

HISTORY

118.07  The Heritage of the Western World I  3 S.H.
Class #7018  Pre-Session
Class #7121  Regular Day  Per. 1  Oden  Rm. 16-212A
Class #7315  Regular Evening  Per. 3  Allen  Rm. 32-7
Class #7315  Regular Evening  Per. 3  Karras  Rm. 32-6
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.
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.

**218.06 Twentieth Century World History** 3 S.H.
Class #7316 Regular Evening Per.3 Faughnan Rm. 32-4
Introduction to this historical background of the crises of our age. Study of the impact of rising nationalism and declining colonialism on Europe, Asia and Africa; the world-wide struggle between democracy and dictatorship; the analysis of political, economic, and social consequences of two wars.

**218.12 Studies in U.S. History I** 3 S.H.
Class #7215 Regular Day Per.2 Moser Rm. 32-1
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. Required of all history and social studies majors.

**218.13 Studies in U.S. History II** 3 S.H.
Class #7414 Regular Evening Per.4 MacLaury Rm. 32-16
Prerequisite: 218.12
An examination in depth of selected topics in U.S. History dealing with economic, intellectual, and cultural developments and emphasizing the analytical and interpretive approaches unique to history. Required of all history and social studies majors.

**INDUSTRIAL EDUCATION AND TECHNOLOGY**

**119.02 Basic Woodworking** 3 S.H.
Class #7019 Pre-Session Johnson Rm. 2-44
Introduction to wood technology, design and construction in wood with tools, machines, study of adhesives, abrasives and finishing materials. Identification and selection of woods.

**119.15 General Industrial Arts** 3 S.H.
Class #7509 Regular Day
8:00 a.m. - 10:05 a.m. Hess Rm. 2-36
General education course available to students of any curriculum. Demonstrations, discussions, and practical application of common tools and materials. Development of appreciation of industry through activities using woods, metals, leather, plastics and other materials by planning and making useful projects.

**219.01 General Metals I** 3 S.H.
Class #7020 Pre-Session Bittner Rm. 2-33
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.
219.16 Basic Electricity-Electronics 3 S.H.
Class #7021 Pre-Session 5:15 - 10:15 Shih Rm. 2-54 & 56
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 #7510 Regular Evening 6:00 - 10:10 Edelbach Rm. 2-3
Prerequisite: 119.20 or consent of instructor.
The study of the technology of offset lithography as it relates to composition, mechanical layout, process photography, register stripping and plate-making and multi-color printing.

319.03 Architectural Design and Drafting 3 S.H.
Class #7511 Regular Evening 6:00 - 10:10 Hess Rm. 2-52
Prerequisite: 119.05 or consent of instructor.

319.41 General Welding 3 S.H.
Class #7512 Regular Day 8:00 - 4:00 (June 29-July 17) Bittner Rm. 2-33
Prerequisite: 219.01 or consent of instructor.
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 arts classes.

419.08 Cooperative Industrial Experience 3 S.H.
Class #7428 Regular Evening 7:30 - 9:00 Friday Dresser Rm. 2-73
Prerequisite: Senior status and permission of Department Chairman
Planned cooperative industrial work experience. Development of depth of understanding of industry through observation and participation in a typical industrial assignment.

213.35 Tools & Materials K-6 3 S.H.
Class #7232 & 7514 Regular Day 10:30 - 12:35; 1:35 - 3:40 Johnson Rm. 2-44
Developing knowledge and skills with basic hand tools and their application as an aid to classroom teaching. Emphasis on selecting and developing construction activities appropriate to the curriculum of the various grade levels. Making abstract concepts meaningfully through industrial arts activities.
213.36 Foundations of Practical Arts and Vocational Education 3 S.H.
Class #7326 Regular Evening 5:15 - 7:20 Asper Rm. 2-73
The philosphical 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.

313.47 Content and Methods in Practical Arts and Vocational Education 3 S.H.
Class #7429 Regular Evening 7:35 - 9:40 Alexander Rm. 2-73
Prerequisite: 213.30 or consent of instructor.
Methods of teaching, safety and evaluation are studies in relation to the objectives. Selection and organization of subject matter and development of programs and courses of study in industrial education are the basis of activities in this course.

413.60 Industrial Arts for Elementary Education 3 S.H.
Class #7138 Regular Day 8:00 - 10:05 Thrower Rm. 2-16
Class #7515 1:35 - 3:40
Organizations of equipment, course content, and methods of teaching shop activities in the elementary school classroom. Projects, tools, materials, processes of handwork suitable for the elementary grades. Practical work in actual manipulative operations using materials and hand tools readily available to the elementary classroom teacher.

413.97 Seminar in Supervised Teaching 6 S.H.
Class #7501 Regular Day By Arrangement Smith 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.

LIBRARY SCIENCE

220.01 Reference and Bibliography I 3 S.H.
Class #7123 Regular Day Per. 1 Brown Rm. 36-206
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 #7216 Regular Day Per. 2 Brown Rm. 36-206

320.05 Children's Literature & Storytelling 3 S.H.
Class #7217 Regular Day Per. 2 Kashoff Rm. 36-208
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.
Methods of acquiring and making use of printed catalog cards and bibliographies as guides to the materials in a school library. Elementary instruction in the principles of preparing simple catalog cards.

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 discussion and activities based upon the student's observation and experiences during the student teaching.

MATHEMATICS

121.00 Elementary Functions
Class #7415 Regular Evening
A study of elementary functions, their graphs and applications, including algebraic, exponential, logarithmic, and trigonometric functions.

121.01 Foundations of Math I
Class #7126 Regular Day
Class #7127 Regular Day
Class #7218 Regular Day
Class #7317 Regular Evening
Class #7416 Regular Evening
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 set, and relation.

121.02 Foundations of Math II
Class #7128 Regular Day
Class #7219 Regular Day
Class #7220 Regular Day
Class #7417 Regular Evening
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 if 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
Class #7221 Regular Day
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.

121.15 Statistics
Class #7222 Regular Day
Prerequisite: 121.01.
Designed to enable the student to become an intelligent "consumer" of statistics. Topics: frequency distribution, central tendency, dispersion, sample theory, correlation. Mathematical basis of these concepts investigated from an elementary point of view.
221.15 Digital Computer Programming 3 S.H.
Class #7318 Regular Evening Per. 3 Wharton Rm. 34-102
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.

321.10 Elementary Vector Geometry 3 S.H.
Class #7129 Regular Day Per. 1 Conjura Rm. 34-139
Prerequisites: Satisfactory understanding of algebra, geometry, trigonometry, as determined by mathematics department. The elements of vector algebra are developed, and vector methods are used to prove theorems in geometry and trigonometry. Topics include: inner products, cross products, coordinate systems, the complex plane, linear inequalities.

321.16 Introduction to Probability 3 S.H.
Class #7319 Regular Evening Per. 3 Spencer Rm. 34-138
Prerequisites: 121.26 or 121.28.

313.03 Teaching Modern Math in the Elementary School 3 S.H.
Class #7011 Pre-Session McLaughlin Rm. 34-115
Class #7205 Regular Day Per. 2 Ehrenpreis Rm. 34-115
Class #7306 Regular Evening Per. 3 Ehrenpreis Rm. 34-115
See description under Education Courses.

MODERN LANGUAGES
122.10 Spanish for Beginners I 4 S.H.
Class #7108 Regular Evening M-Th Per. 3 Hernandez Rm. 16-214
An introduction to spoken and written Spanish, with stress on the four skills of reading, speaking, comprehension, and writing. One hour per week of language laboratory.

MUSIC
123.01 Survey of Music Literature 3 S.H.
Class #7139 Regular Day 8:00 - 10:05 Safran Rm. 5-129
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.

123.10 Beginning Voice Class 1 S.H.
Class #6091 Regular Evening 5:15 - 6:00 Steele Rm. 5-12.
Applied Music (Class lessons—as arranged)

123.13 Harmony I 2 S.H.
Class #7328 Regular Evening 6:05 - 7:30 Bisgrove Rm. 5-126
Prerequisite: 123.08.
This course covers content designed to acquaint the student with the elements and principles of diatonic harmony as found in Baroque and Classic composers; including: triads, seventh chords, non-harmonic features, figured bass and modulation. Practice is offered in listening, singing, writing, and elementary composition, as well as in harmonic analysis and the solution of formal problems.
123.20 Music Fundamentals 2 S.H.
Class #7233 Regular Day 10:30 - 11:55 Bisgrove Rm. 5-125
Study of rhythm, melody and harmony in music. Basic knowledge of the keyboard. Musical skills acquired through singing, ear-training, music reading and creating original music.

123.22 Medieval and Renaissance Music 2 S.H.
Class #7430 Regular Evening 7:35 - 9:00 McKinney Rm. 5-129
Prerequisite: 123.01 or equivalent.
A correlated listening and study experience in ancient, medieval, and Renaissance music.

323.15 Keyboard Harmony 2 S.H.
Class #7329 Regular Evening 6:05 - 7:30 Batchelor Rm. 5-125
Elementary keyboard harmony for students with limited pianistic ability. Practical application of basic harmonies to provide appropriate accompaniments for soloists or for vocal and instrumental groups. Stress on improvisation or ear approach rather than the theoretical.

323.70 Conducting, Choral 1 S.H.
Class #7330 Regular Evening 5:15 - 6:00 Isch Rm. 5-124
This laboratory course is designed to enable the student to develop the fundamental conducting skills, through discussion and analysis of problems encountered in conducting a rehearsal. Special stress is placed upon practical application to assist the student attain a valid professional goal.

423.25 Music Drama 2 S.H.
Class #7431 Regular Evening 7:35 - 9:00 Steele Rm. 5-120
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.

423.00 Piano Pedagogy 2 S.H.
Class #7234 Regular Day 10:30 - 11:55 Batchelor T.B.A.
A survey and analysis of methods and techniques used in teaching piano at all levels with examples of methods of great pedagogues from the past to the present. Special attention will be given to the areas of sightreading, development of technique, and meaningful practice habits, from the standpoints of psychological, philosophical, and musical content. Recommendation of materials, including basic technique books, teaching materials of the baroque, classical, romantic and contemporary periods.

313.21 Teaching Music in the Elementary Grades 3 S.H.
Class #7433 Regular Evening Per. 2 Safran T.B.A.
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. Fall and Spring—Peterson.
313.67 Music Education, High School, Choral 1 S.H.
Class #7331 Regular Evening 5:15 - 6:00 LeBeau Rm. 5-129
Prerequisite: 213.12.
This course must be taken concurrently with 323.60, 323.70, 323.75 and 313.63. Designed to acquaint the student with rehearsal and teaching procedures, with an analysis, evaluation and interpretation of choral materials on both the high school and junior high school levels. Emphasis is placed upon the problems of voice testing, balance and blend, intonation and diction. School music materials, administration procedures, and organization of choral groups are discussed and evaluated. To be correlated with Junior High School Methods and the High School Instrumental Methods courses to provide a core of basic functional experiences for professional development.

PHILOSOPHY

124.01 Philosphical Problems 3 S.H.
Class #7418 Regular Evening Per. 4 Gotthelf Rm. 16-210
Designed to introduce the student to philosphical 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 philosphers from Plato to Dewey. Liberal Studies Course.

224.10 Comparative Religion 3 S.H.
Class #7233 Regular Day Per. 2 R. Smith T.B.A.
The great religions of the world studied and their religious thoughts compared: Hinduism, Buddhism, Zen Buddhism, Taoism, Confucius, Judaism, Christianity and Islam. The Bhagavad Gita, the great Hindu document, Buddhist Scriptures and/or some other original sources, will be read.

PSYCHOLOGY

225.01 Introductory Psychology I 3 S.H.
Class #7023 Pre-Session Greenfield Rm. 32-14
Class #7130 Regular Day Woloshin Rm. 32-8
Class #7320 Regular Evening Gorczynski Rm. 32-5
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.

225.02 Introductory Psychology II 3 S.H.
Class #7024 Pre-Session Gorczynski Rm. 5-129
Class #7419 Regular Evening Gorczynski Rm. 32-5
Prerequisite: 225.01
Continuation of Introductory Psychology.

325.14 Educational Psychology 3 S.H.
Class #7131 Regular Day Kohlan Rm. 32-14
Class #7224 Regular Day Rubin Rm. 5-129
Class #7420 Regular Evening Kohlan Rm. 32-3
Psychological principles of learning, motivation, maturation, socialization, mental health and evaluation as applied in education and specifically in the classroom. Emphasis on recent developments.

325.31 Learning Theory 3 S.H.
Class #7132 Regular Day Hohmuth Rm. 34-214
Prerequisite: 225.01-02.
Consideration of major learning theories and their applications.
325.41 Child Psychology 3 S.H.
Class #7225 Regular Day
Per. 2
Montgomery Rm. 21-202
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.

325.42 Adolescent Psychology 3 S.H.
Class #7133 Regular Day
Per. 1
Del Monte Rm. 21-202
Prerequisite: 225.01.
Emotional, mental, physical, and social development of youth from conception through adolescence. Influences of the home, school, and community on adolescence.

325.44 Psychology of Personality 3 S.H.
Class #7226 Regular Day
Per. 2
Woloshin Rm. 32-8
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.

325.53 Statistics in Psychology I 3 S.H.
Class #7227 Regular Day
Per. 2
Wang Rm. T.B.A.
Prerequisite: 225.01.
Elementary calculation and interpretation of standard statistical techniques. Parametric measures up to elementary analysis of variance, factorial design. Introduction to nonparametrics.

425.46 Mental Health 3 S.H.
Class #7025 Pre-Session
Stierhem Rm. 16-211
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.

425.95 Independent Study in Psychology 3-9 S.H.
Class #7502 By Arrangement
O'Neil T.B.A.
Prerequisite: Permission of instructor.
For advanced students. Depth study of a carefully defined area of psychology. Close consultation with faculty.

SOCIOLOGY

127.01 Introductory Sociology 3 S.H.
Class #7228 Regular Day
Per. 2
Wolcott Rm. 32-12
Class #7321 Regular Evening
Per. 3
Gillen Rm. 32-7
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.

327.35 Sociology of the Family 3 S.H.
Class #7421 Regular Evening
Per. 4
Towle Rm. 32-7
Prerequisite: 127.01 Introductory Sociology
A study of the institutionalized personal relationships between man and woman in socially approved constructs. Attention is given to cohesive and destructive forces in marriage. The role of children in various family configurations and class levels is explored, together with the impact of contiguous institutions.
229.01 Survey of the Education of Exceptional Children and Youth 3 S.H.
Class #7026 Pre-Session Iriarte Rm. 32-9
Class #7134 Regular Day Per. 1 Niederhuber Rm. 32-19
Class #7322 Regular Evening Per. 3 Frankel Rm. 32-10
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.

229.14 Education of the Mentally Retarded 3 S.H.
Class #7229 Regular Day Per. 2 Niederhuber Rm. 32-19
History, philosophy, programs and the role of the mentally retarded in society. Development of a familiarity with the bibliographic source materials and nomenclature in the field. Nature and needs of the mentally retarded in terms of etiology, differential diagnosis, developmental pattern, and implications for their educational and social preparation.

429.02 Diagnostic Evaluation of Exceptional Children 3 S.H.
Class #7027 Pre-Session Hritz Rm. 32-10
Prerequisite: Consent of instructor.
Orientation to the instruments and procedures used in discovering individual differences among exceptional children and youth. Evaluation of tests as they contribute to the teacher’s understanding of individual behavior. Professional responsibilities in the use of educational and psychological test results.

429.03 Psychosocial Aspects of Disability 3 S.H.
Class #7422 Regular Evening Per. 4 Riley Rm. 32-9
(Not open to students who have had 529.03). The nature of physical, mental, and social disability in our society in terms of the psychological and social aspects of adjustment. Analysis of contemporary theories of Lewin, Barker, Wright, Meyerson, among others, as they contribute to our understanding of the psychology of the handicapped.

413.97 Seminar in Supervised Teaching (Part 1) 6 S.H.
Class #7135 Regular Day Per. 1 & 2 reehan Grant School

BIOLOGY

132.15 Principles of Biology I 3 S.H. M-F
Class #7516 Regular Day 8:30-12:10 (June 29-July 17) Lipton Rm. 34-215
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.

132.16 Principles of Biology II 3 S.H. M-F
Class #7517 Regular Day 8:30-12:10 (July 20- Aug. 6) Rockel Rm. 34-215
Prerequisite: 132.15.
Continuation of 132.15.
An introduction to the basic concepts and principles of biology. Attention to the functions, structures, classification and life histories of common plants and animals. Special emphasis on the essential relatedness of all living things to each other and to their environments. Laboratory experiences and field trips to give familiarity with, and stress classroom utilization of, readily available biological materials.

**CHEMISTRY**

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<th>Course Code</th>
<th>Title</th>
<th>Credit Hours</th>
<th>Schedule</th>
<th>Location</th>
<th>Instructor</th>
<th>Room Numbers</th>
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<tr>
<td>133.03</td>
<td>Principles of Chemistry I</td>
<td>3</td>
<td>M-F</td>
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<td>34-315 &amp; 316</td>
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<td>Class #7518</td>
<td>Regular Day</td>
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<td>Cohen</td>
<td>Rm. 34-111 &amp; 214</td>
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<td>Prerequisite: 133.03.</td>
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<td>Continuation of 133.03.</td>
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<td>133.20</td>
<td>Geology</td>
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<td>M-Tu-Wed-Th</td>
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<td>Class #7423</td>
<td>Regular Evening</td>
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<td>34-201</td>
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<td>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.</td>
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<td>133.40</td>
<td>Growth of Scientific Ideas I</td>
<td>3</td>
<td>M-F</td>
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<td>Cohen</td>
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<td>Class #7520</td>
<td>Regular Day</td>
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<td>June 29-July 17</td>
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<tr>
<td>A presentation of the interaction of science and society from the dawn of man up to the period of the Renaissance. The early science of the Ancient Babylonians, Egyptians, Greeks and Romans is studied. This is followed by an examination of the role of the Arab civilization during the Dark and Middle Ages.</td>
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<td>133.41</td>
<td>Growth of Scientific Ideas II</td>
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<td>M-F</td>
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<td>Cohen</td>
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<td>Class #7521</td>
<td>Regular Day</td>
<td>8:30-12:10</td>
<td>July 20-Aug. 6</td>
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<td>A study of science and society from the Renaissance to the present era. Particularly stressed are the works of Galileo and Newton as the builders of the background to modern developments in biology, medicine, physics and astronomy. The fundamental aspects of evolution, genetics, relativity and atomic energy are among the topics considered.</td>
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**PHYSICS**

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<th>Room Numbers</th>
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<tr>
<td>134.07</td>
<td>Principles of Physics I</td>
<td>3</td>
<td>M-F</td>
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<td>Fink</td>
<td>34-301</td>
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<tr>
<td>Class #7522</td>
<td>Regular Day</td>
<td>8:30-12:10</td>
<td>June 29-July 17</td>
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<tr>
<td>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.</td>
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</table>
Principles of Physics II 3 S.H. M-F
Class #7523 Regular Day 8:30-12:10 (July 20-Aug. 6) Fink Rm. 34-301

Prerequisite: 134.07
Continuation of 134.07.

Descriptive Astronomy 3 S.H.
Class #7029 Pre-Session
Class #7136 Regular Day Per. 1
Class #7424 Regular Evening Per. 4

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.

Introduction to Meteorology 3 S.H. M-Tu-Th 10:30-12:35
Class #7236 Regular Day Tue. 1:30-3:35 Lecher Rm. 34-203

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.

Physical Science for the Elementary Grades 3 S.H.
Class #7030 Pre-Session Tue. Schreiber Rm. 34-111
Class #7237 Regular Day M-Tu-Th. 10:30-12:35 1:30-3:35 Gleeson Rm. 34-111

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.

Methods of Teaching Science in the Elementary Grades 3 S.H.
Class #7425 Regular Evening Per. 4 Schreiber Rm. 34-111

Prerequisite: Six 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.

SPEECH AND THEATRE

Fundamentals of Speech 3 S.H.
Class #7031 Pre-Session
Class #7137 Regular Day Per. 1
Class #7323 Regular Day Per. 3

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.

Introduction to Theatre 3 S.H.
Class #7231 Regular Day Per. 2

Examines selected plays; playwrights and their historical significance; synthesis of art forms in the theatre; and physical environment of theatre.

Oral Interpretation of Literature 3 S.H.
Class #7426 Regular Evening Per 4.

Prerequisite: 138.01.
Objectives of the course: the development of the individual reader in prose, poetic, and dramatic literature; a knowledge of the material and literary sources.
238.05 Public Speaking 3 S.H.  
Class #7324 Regular Evening Per. 3 Hogstrom Rm. 21-205  
Prerequisite: 138.01.  
Nature of the rhetorical task. Methods of audience analysis, research, organization of materials, preparation and delivery. Study of argument, evidence and speech criticism.

238.06 Independent Study in Speech and Theatre 1-3 S.H.  
Class #7032 Pre-Session By Arrangement McCulloqgh T.B.A.  
Class #7503 Regular Day By Arrangement McCullough T.B.A.  
Class #7504 Regular Evening By Arrangement McCullough T.B.A.  
Individual study under faculty supervision. Work may be coordinated with participation in performance activities. May be arranged to fit semester or quarter schedules. Student may earn up to 6 s.h. in this series. Amount of credit for any problem determined by supervising faculty prior to enrollment.

338.02 Creative Dramatics 2 S.H.  
Class #7033 Pre-Session June 15-26 Coslick Rm. 21 Studio Theatre  
Emphasis on philosophy and methods of development of creative plays of children. Presentation of informal plays based on literature, activities, pictures, news events, and social situations.

438.20 Parliamentary Procedure 2 S.H.  
Class #7034 Pre-Session June 15-26 Hostrom Rm. 21-202  
Intensive drill in standard parliamentary procedure; classification and precedence of motions; by-laws of deliberative organizations; nominations, elections, duties, committees; conferences, conventions, congresses, parliamentary contests.

Summer Theatre Workshop  
Class #7526 (See page 42 for details) Staff Rm. 21 Large Aud.

INTERNATIONAL STUDIES  
360.01 International Workshop: Cultural and Environmental Setting for Education in North Eastern United States 3 S.H.  
Class #7527 (See page 40 for details) Staff T.B.A.  
A three-work 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 #7528 (See page 40 for details) Staff T.B.A.  
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.
McGUIRE AFB - FORT DIX CENTER
PEMBERTON TOWNSHIP HIGH SCHOOL
4th Term: June 2 to August 6, 1970

GENERAL INFORMATION

Class admission cards will be issued at the time of registration. Military tuition assistance students will be given admission cards at the Pemberton Center on the evening of the first class. Registration will not be accepted unless the form includes your Social Security number.

Location: All classes meet at Pemberton Township High School, located on the Fort Dix-Pemberton Road.

Eligibility: All military personnel, their dependents, and civilians are eligible to enroll.

Academic Requirements: High school diploma or certificate of equivalency based on GED tests.

Textbooks: Books will be on sale at Pemberton Township High School during the first, third and fifth class meetings.

REGISTRATION

Early registration is encouraged to insure a space in class.

I Military Personnel


Army: Register at the Fort Dix Education Office Building 5207, next to 4 Seasons, prior to May 22. Telephone: 562-2324 or 2968/2566.

Navy: (Lakehurst) Mail registration forms to Division of Continuing Education, Trenton State College (May 11-22, 1970).

II Civilians and Other Full-Tuition Students Including G.I. Bill Students

Mail Registration: May 11-15, 1970. Mail all registrations to Division of Continuing Education, Trenton State College, Trenton, N.J. 08625, including CHECK OR MONEY ORDER. Registrations by mail will not be accepted after 12:00 noon, May 15.

Special In-Person Registration: Representatives from Trenton State College will conduct registration at Pemberton Township High School on Monday, May 25, 1970 from 6:00 to 8:30 P.M. In addition registration cards, tuition and fees may be turned in at the Pemberton Center on May 14, 19, and 21 from 6:00 to 9:30 P.M.

LATE REGISTRATION

Late registration will be conducted at the Pemberton Center on Tuesday, June 2 and Thursday, June 4, from 5:30 to 9:15 P.M. Students must register BEFORE going to their second class meeting. A late registration fee of $5.00 will be charged after May 25.

— TUITION COSTS —

<table>
<thead>
<tr>
<th>Sem. Hrs.</th>
<th>Full Tuition Student Pays</th>
<th>Tuition Assistance Student Pays</th>
<th>Government Assistance</th>
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<td>6</td>
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The Above Figures Include $2.00 Registration Fee

— TUITION PAYMENTS —

Tuition Payments: To be made at the time of registration, in the form of CHECK or MONEY ORDER payable to: TRENTON STATE COLLEGE.

— TENTATIVE SCHEDULE —

1st Term, 1970-71

September 8 to November 12, 1970
## COURSE OFFERINGS

**TRENTON STATE COLLEGE**

**McGuire AFB - Fort Dix Center at Pemberton Township High School**

**Fourth Term**

**Beginning June 2, 1970**

**Ending August 6, 1970**

<table>
<thead>
<tr>
<th>Class No.</th>
<th>Course No.</th>
<th>Course Title</th>
<th>S.H.</th>
<th>Instructor</th>
<th>Room</th>
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<tbody>
<tr>
<td>5000</td>
<td>313.04X</td>
<td>Teaching Arts and Crafts in the Elementary Grades</td>
<td>3</td>
<td>Wilensky</td>
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<tr>
<td>5001</td>
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<td>5003</td>
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<tr>
<td>5004</td>
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<td>D. Wright</td>
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<tr>
<td>5005</td>
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<tr>
<td>5006</td>
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### COURSE OFFERINGS

**TRENTON STATE COLLEGE (continued)**

McGuire AFB - Fort Dix Center at Pemberton Township High School
Fourth Term
Beginning June, 1970
Ending August 6, 1970

<table>
<thead>
<tr>
<th>Class No.</th>
<th>Course No.</th>
<th>Course Title</th>
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<th>Instructor</th>
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<td>Fundamentals of Speech</td>
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<td></td>
<td></td>
<td>Contemporary Social Problems</td>
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</table>
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 on Mondays, Tuesdays and Thursdays between 7:45 A.M. and 12:45 P.M. from June 29 to August 6. The weekly fee is $9.00. 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 1, 1970 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 223 or 389.

INTERNATIONAL WORKSHOP (360.01 - 3 s.h.)

The Workshop is offered under the direction of the Office of International Education. This year will be the thirteenth consecutive summer for this particular aspect of the total international program. During the 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 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.

AREA STUDY SEMINAR IN GERMANY (360.05 - 4 s.h.)

Trenton State College in cooperation with the College of Education of the University of Frankfurt, Germany, and the Experiment in International Living offers the seventh annual Area Study Seminar in Germany from June to August 1970. The Seminar is offered by the Office of International Education 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 Adult Education Center, Falkenstein, Germany; a one-week seminar at the University of Frankfurt directed by University faculty members; a three week homestay in West Berlin; a three week bus trip with the following itinerary: Dresden, Prague, Salzburg, Austrian Alps, Munich, Freiburg. The group will attend performances at the Music Festivals in Salzburg and Munich. The group will be accompanied throughout the entire program by Mr. Franz G. Geierhaas and Dr. Siegfried Haenisch, members of the Trenton State College faculty and Co-Directors 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.

The total cost of the Seminar is $1,200.00 including all travel from U.S.A. and return, 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.

COLLEGE ANTICIPATION PROGRAM
(For High School Students Completing Grades 11 and 12 and recent Graduates)

The non-credit courses are designed to help students who anticipate attending college, acquire additional preparation by strengthening their capacity in reading, and studying. Experience indicates that many good high school students have difficulty in realizing their full academic potential as a result of poor skills in reading and studying.

Classes will meet during the evening of the regular six-week summer session beginning the week of June 26.

For further information concerning the schedule of courses, contact the Division of Continuing Education, Trenton State College, Trenton, New Jersey, 08625; (609) 882-1855, extension 209.

NEW DEGREE OFFERINGS

The Division of Continuing Education will expand its offerings, effective Fall semester 1970, to include Bachelor of Arts Degree programs in:

ENGLISH

Minors will be available in:

ENGLISH GEOGRAPHY HISTORY LIBRARY-SCIENCE SPEECH AND THEATRE

PEMBERTON TOWNSHIP CENTER of Trenton State College

Degree courses are 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. These courses are open to civilians and the military personnel. 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 summer schedule of courses, time and day of class meetings, and registration procedures can be found on page 41 of this bulletin.

4th term: June 2 to August 6, 1970
SUMMER THEATRE WORKSHOP
for High School and College students
offered by: Department of Speech and Theatre

The Summer Theatre Workshop is designed to provide non-degree intensified instruction in theatre arts and crafts for high school and college students, with or without theatre experience. Campus theatre facilities will be utilized by these students as their college instructors present a program of classes in acting technique, stagecraft, and related problems of play production. In addition, seminars will be conducted for specific interests. All aspects of the program will be directed toward final performances given in Kendall Theatre.

The Workshop will meet five days a week from June 29 to July 17, 9:00 a.m. to 3:00 p.m. During the morning the student may elect three of six offerings (Acting I or II, Play Production I or II, Stagecraft, or a Seminar.) The afternoon will be devoted to play rehearsal. Students will be admitted to Acting II by audition only, held the weekend prior to the start of the Session. The College provides no dormitory facilities. The fee is $75.00. Early registration is encouraged and may be accomplished by writing directly to Merlin Coslick, Workshop Coordinator, Speech and Theatre Department.
Building Designation Code

2—Armstrong
5—Bray
11—Decker
16—Green
21—Kendall
28—Packer
32—Relocatables
34—Science/Mathematics
36—West Library
—McCauley House

T.B.A. — To Be Announced

ART

510.30 History of American Painting and Sculpture
Class #6101 Regular Day
This lecture course will trace the history of "The New American Art" movement and its influence on the contemporary art world.

BIOLoGY

532.15 Advanced Microscopical Techniques 3 S.H.
Class #6102 Regular Day
(Additional laboratory hours will be required - Time to be arranged with Instructor)
A course in theory and application of technical methods, apparatus and materials. Designed to supplement techniques which were acquired on the undergraduate level. (1 lecture, 4 laboratory hours.)

BUSINESS AND DISTRIBUTIVE EDUCATION

511.01 Principles of Vocational Education 3 S.H.
Class #9101 Pre-Session
Survey of the basic history, philosophy, principles, methods, and duties of the coordinator employed in the vocational technical education program with emphasis on Distributive Education.

511.31 Stenographic Machine Shorthand 3 S.H.
Class #8104 Regular Session
This course is designed to teach the student the theory of touch or machine shorthand using the Stenograph Shorthand machine, and to build a dictation speed of from 60-120 W.P.M.

511.42 Sales, Advertising, and Display 3 S.H.
Class #8103 Regular Day
The problems encountered in building effective advertising, sales, and display programs. Problems of consumer behavior, advertising research, selection of media, and the social and economic aspects of advertising, sales, and display are emphasized.
511.60 Adult Programs in Distributive Education
Class #9202 Regular Evening 3 S.H. Shenker Rm. 16-220
Planning, organizing, promoting, teaching, evaluating, and supervising continuing adult education programs for distributive occupations. Studying techniques of working with trade associations, employment services, manpower programs, and itinerant instructors. Students observe and assist in adult education classes. (Supervised adult teaching consists of one-quarter of the semester.)

611.35 Business Communications
Class #8105 Regular Day 3 S.H. Everard Rm. 16-214
A study of effective communication at all levels of business activity. An examination of the role of persuasion and human relations in business communication. Provides an opportunity to examine existing materials and to develop individual skill in communications.

CHEMISTRY
533.10 History and Philosophy of Science
Class #9203 Regular Evening 3 S.H. Nechamkin Rm. 34-113
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.

533.34 Quantitative Analysis
Class #8106 Regular Day 3 S.H. Goodkin Rm. 34-103
(Afternoon lab hours will be required) Rm. 34-312
Prerequisite: General College Chemistry. An advanced course in analytical chemistry, providing for a thorough treatment of the fundamental principles upon which the subject is based. Emphasis is placed on the important classical procedures, the reagents, instruments and practical techniques used in inorganic analysis.

ECONOMICS
512.15 Economics of Underdeveloped Countries
Class #8107 Regular Day 3 S.H. Chae Rm. 32-1
The problems of economic development are examined with special reference to industrialization and its implications, population, capital accumulation, and foreign investment. Case studies are made from selected Asian, African, and Latin American countries.

EDUCATION
513.01 Curriculum and Instruction in the Elementary School
Class #8108 Regular Day 3 S.H. Ingalls 16-219
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, motivation, levels of learning, and meaningful integration of content. Planning and organizing for teaching including daily lesson planning, long range planning, and classroom scheduling. Open only to students enrolled in E48, E32, SE32, SE48, SE38, SH48, and SH38 programs. Not accepted by the New Jersey State Department of Education toward administrative or supervisory certificates.
### 513.11 New Jersey School Law I

**Class #9204 Regular Evening**

This course is designed to give to 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.

### 513.19 Curriculum Theory and Practice

**Class #8109 Regular Day**

An overview of the public school curriculum from the primary through the secondary levels including social and educational foundations, basis factors in design, and common organizational patterns; an analysis of contemporary curriculum, their utilization and continuing development.

### 513.20 Corrective and Remedial Techniques in Reading

**Class #8110 Regular Day**

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

**Class #8111 Regular Day**

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, flannel 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

**Class #8112 Regular Day**

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.

### 513.40 Foundations of Education

**Class #9102 Pre-Session**

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.
The purpose of this course is to present for the students' consideration an historical perspective relative to the origins of present theories and practices in education, as found in the writings of western civilization from Greece to the discovery of America.

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.

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.

This course will provide a depth examination of the political and economic factors and problems affecting decisions regarding public education.

Examination of the writing dealing with the relationship between literature and education, with particular attention to contemporary writers.

An evaluative approach to the study of selected contemporary educational systems of the world especially those of Western Civilization. Attention will be given to the philosophy, structure, curriculum, method, role of teacher and pupil, evaluative techniques and administrative procedures.

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.

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 optional helping relationships within the class itself. Psychological theoretical review, necessary to explain expected class behavior is offered. Courses content includes study of the goals, history, and present status of guidance. Examination of guidance resource materials.
513.89 Guidance in the Elementary School 3 S.H.
Class #8118 Regular Day Per. 2 Staff Rm. 16-211
This course is designed primarily for the graduate student in Pupil Personnel Services who is interested in elementary guidance. Varying philosophies and characteristics of guidance programs in the elementary schools are examined. Particular emphasis is placed on the role of the pupil personnel specialist in such areas as counseling, testing, vocational development, and teacher consultation.

613.02 Introduction to Research 3 S.H.
Class #8119 Regular Day Per. 1 Yengo Rm. 32-4
Class #8120 Regular Day Per. 2 Yengo Rm. 32-4
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 #8121 Regular Day Per. 1 Franz Rm. 16-211
Prerequisite: 613.02.
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.

613.61 Organization and Administration of Student Personnel Services 3 S.H.
Class #8122 Regular Day Per. 2 Stamm Rm. 16-212
Study of principles and practices fundamental in the organization and administration of student personnel services in the school. A comprehensive view will be taken of the responsibilities involved in the effective functions of guidance services.

613.97 General Seminar in Elementary Education 3 S.H.
Class #9113 Pre-Session 6:00-8:30 (Teacher Corps) Ingalls Rm. 32-19
Class #8124 Regular Day Per. 2 Burke Rm. 5-127
An examination of the current setting and the findings of noteworthy research studies in elementary education as they affect the many roles of the elementary teacher. The terminal seminar required of all students in the Elementary and E48 programs.

ENGLISH

514.01 Great Themes in Literature 3 S.H.
Class #8125 Regular Day Per. 1 Thomas Rm. 34-203
An exploration of the recurrences in world literature of two or three typical major themes or revelations of aspects of the human condition. In type of readings will primarily be narrative, in the broadest sense, including the epic, drama, the novel, short fiction, and narrative poetry. Readings will be primarily from Western literature, of the past 500 years, but may include selections from other eras and cultures, illustrating the persistence in literature of given human concerns, from ancient to contemporary times and in diverse cultures.
514.03 The Modern Imagination 3 S.H.
Class #9209 Regular Evening Per. 4 Liddie Rm. 32-15
An exploration of the artistic climate of the twentieth century with particular attention to literary experimentation, motion pictures, and the revolution in the visual arts. The course will explore such contemporary phenomena as surrealism, dadaism, pop art, anti-art, anti-theater, McLuhanism, and related ideas and movements.

514.34 Linguistics: Utilization in Elementary 2 S.H.
Education
Class #8301 Post-Session 8:30-11:30, 1:00-3:00 Stratemeyer Rm. 36-222
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.

GEOGRAPHY

515.05 Historical Geography of the United States 3 S.H.
Class #8128 Regular Day Per. 2 Carney Rm. 32-17
Prerequisites: 6 hours of American History and 6 hours of Geography. The course investigates the geographic conditions under which this country was explored, settled and developed. Colonial economy, westward expansion, transportation and urbanization are aspects considered against the constantly altering natural and cultural landscapes. Development of regionalism is stressed.

615.26 Seminar In Africa 3 S.H.
Class #8126 Regular Day Per. 1 Carney Rm. 32-18
Advanced work in depth of selected areas of Africa, study of the distinctive features and interrelationships of the geographic patterns of human occupancy and cultural diversification. Analyzing present and potential economic development of emerging nations. Special reading assignments, map projections and reports enabling the student to conduct independent research.

615.98 Department Project 3 S.H.
Class #8127 Regular Day By Arrangement Casper
A critical independent study of an aspect of Geography of interest to the student that is explored, under faculty guidance.

HEALTH AND PHYSICAL EDUCATION

517.23 Health Science Instruction 3 S.H.
Class #8131 Regular Day Per. 2 Fassbender Rm. 5-128
The course attempts to cover some of the more recent problems, concepts and advances in the areas of personal and community health and in the selection, investigation and application of modern techniques of classroom teaching to the health sciences.

517.41 Outdoor Education 3 S.H.
Class #8129 Regular Day Per. 2 Van Ness Rm. 32-11
A study of the philosophy and development of outdoor education. Local organization, financing, staffing. Study of existing programs, objectives, and procedures.

517.47B Advanced Theory and Techniques (Girls Basketball) 2 S.H.
Class #9104 Pre-Session 6:00-8:30 Fisher Rm. 28-101
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.
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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.

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.
Prevention and Care of Athletic Injuries
Class #8132 Regular Day 3 S.H. Van Demark Rm. Trng. Room

Theory and practice in the prevention of athletic injuries and in the program of rehabilitation. Training room organization and management, facilities, and equipment.

Sex Education and Family Living
Class #8134 Regular Day 3 S.H. Fulton Rm. 21-205

Individual study of personal and family living. Development of increased knowledge and competence in the use of such knowledge in teaching. Development of teaching materials, analysis of tests and other resources.

Professional Seminar
Class #9107 Pre-Session 3 S.H. 6:00-8:30 Tillman Rm. 28-103

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. And effort will be made to insure that a sound philosophy and foundation has evolved from the student's program of study.

Marxism, Socialism, Communism, Welfare State
Class #8135 Regular Day 3 S.H. Hahn Rm. 36-222

This is an introductory and comparative course devoted to the study of the theories of Marx and their interpretations, of Revisionism, Socialism, and the development of communist doctrines from Lenin to Mao Tse Tung. Also included are comparative examinations (a) of Socialism, Communism, and the welfare state and (b) of the structure of the Socialist and Communist parties. Finally various systems of socialism and communism as practiced in several countries outside Russia will be explored and analysed.

Reform in 20th Century America
Class #9211 Regular Evening 3 S.H. MacLaury Rm. 5-128

A study in depth of the currents of change in the United States since 1900: political, social, and economic. Emphasis will be placed upon the origins, methods, goals, and leaders of the Progressive Movement and the New Deal and the continuation of change under the Fair Deal, New Frontier, and the Great Society.

History and Philosophy of Industrial Education and Technology
Class #8137 Regular Day 3 S.H. Lockette Rm. 2-73

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.

Curriculum Construction in Industrial Education and Technology
Class #8138 Regular Day 3 S.H. Thrower Rm. 2-73

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 #9214 Regular Evening Per. 3 Brown Rm. 32-16

519.80 Cooperative Industrial Seminar 3 S.H.
Class #9213 Regular Evening 7:30-9:00 (Friday) Dresser Rm. 2-73
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.

519.90 Industrial Education Workshop (Welding) 3 S.H.
Class #8136 Regular Day 8:00-4:00 June 29-July 17 Bittner Rm. 2-33
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.

519.95 Industrial Education Workshop (Lithography) 3 S.H.
Class #9212 Regular Evening 6:00-10:10 Edelbach Rm. 2-3
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.

519.99 Industrial Education Workshop (Power Mechanics) 3 S.H.
Class #9108 Pre-Session 5:15-10:15 Wasdyke Rm. 2-27
Advanced course utilizing consultants from industry and government agencies on new developments in generation and transmission of power for transportation. Attention will be focused on contemporary power sources for propelling vehicles on land, on water, in the air, and in outer space.

619.02 Research in Industrial Education 3 S.H.
Class #9215 Regular Evening Per. 3 Ruggles Rm. 32-18
Study of techniques employed in educational and industrial research. Interpretation and critical analysis of literature related to industrial arts.

619.04 Evaluation in Industrial Education and Technology 3 S.H.
Class #8139 Regular Day Per. 2 Asper Rm. 32-13
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. Prerequisite: 519.02.

619.11 Planning and Equipping Facilities for Industrial Education 3 S.H.
Class #9216 Regular Evening Per. 4 Ruggles Rm. 32-18
Administering, supervising, and implementing programs involving facilities planning and equipment selection for the industrial education curriculum. Practical application includes an analysis of curriculum and course requirements to determine appropriate facilities and equipment. Consideration and integration of modern architectural planning techniques, study of local and state guides and codes, preparation of building and equipment specifications, and bid proposals are included.
Sources of Occupational Information 3 S.H.
Class #8140 Regular Day Per. 1 Brown Rm. 32-13
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.

Department Project - Industrial Education and Technology 3 S.H.
Class #8141 Regular Day Staff
(First class meets Monday, June 29 at 1:30 P.M.)
A critical independent study of an aspect of Industrial Education of interest to the student that is explored under faculty guidance.

Thesis 3 S.H.
Class #8142 Regular Day Staff
(First class meets Monday, June 29 at 1:30 P.M.)
An original research or creative study under the guidance of a thesis committee appointed by the Graduate Council.

MATHEMATICS

Modern Statistics 3 S.H.
Class #9217 Regular Evening Per. 4 Wharton Rm. 34-102
Prerequisite: 521.50 or equivalent.
This course is planned to meet the need of experienced teachers and mathematics supervisors. The theory is developed rigorously, but emphasis is placed on problem solving, devising problems, and teaching materials.

Foundations of Geometry 3 S.H.
Class #9218 Regular Evening Per. 3 Cromack Rm. 34-137
Postulational methods are discussed and emphasized to give the student a conception of the structure of Euclidean and non-Euclidean geometries. One of the purposes is to reexamine elementary geometry from an advanced point of view.

Seminar in Mathematics Education 3 S.H.
Class #9219 Regular Evening Per. 4 Mcllroy Rm. 34-115
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.

MUSIC

Private Applied Study 2 S.H.
Class #8152 By Appointment Austin
Enrollment in this course indicates applied study which is apart from the curriculum requirements. Therefore, any private applied study taken in addition to required courses for any specified program must be listed as 523.12.

Orchestra Development I 2 S.H.
Class #8139 Regular Day 10:30-11:55 Austin Rm. 5-124
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.
This course is designed to present a specific teaching process for the Brass Instrument which applies equally for class instruction, small group instruction, or private instruction of either homogeneous or heterogeneous groups. The rate of advancement is the only differing factor. Diagnostic aspects of the teaching process are emphasized. Specifics presented include the development of good intonation, tone quality, rhythm and range through proper instruction patterns for breathing, tonguing, embouchure development, slurs, etc.

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.

This course presents basic principles of direct functional use in the development of a sound program of instrumental music. The necessary mental processes, specific concepts for the teacher concerning motor movement and all essential disciplines are included in proper sequence. These are of direct functional use where either or both band and orchestra experiences are offered as instrumental music and where scheduling is of either the heterogeneous or homogeneous variety.

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.)

Offers advanced workshop experiences which focus upon processes of teaching as they apply to specialized areas of music education. Intensive study for three hours daily for one week for each semester hour of credit granted. Demonstrations of modern teaching techniques, devices and materials, diagnostic clinics, performances, chamber music experiences, and individualized projects.

This course presents detailed information concerning musical styles and periods. From this, individual composers and the devices they employed for their music force plus an analysis of the possible or intended musical force reasoning behind the use of the various devices is presented. This is not a music history course; rather it concerns itself with a basis for interpretative insights.
This course affords opportunity for performance growth on the candidate's major instrument through private study. Lessons are arranged with members of the staff or with an artist-teacher from an approved list.

Private applied voice study affords opportunity for performance growth and the development of the individual's vocal potential. Lessons are arranged with members of the staff or with an artist-teacher from an approved list.

This course is designed to meet the constant need of the teacher of choral music for good materials for each level and kind of group he meets. In a laboratory situation in which a gamut of materials are sung, heard, analyzed, and evaluated, experience in selection is gained while the scope in knowledge of choral materials is broadened. Music from all periods from 1600 to the present will be included. These materials will be presented in the order they are needed in the typical public school year. Each student will develop his own list of materials designed to meet both his technical demands and the limitations of his choral groups.

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.

Candidates who wish to present a Recital, a Conducting Performance, or a Musical Composition as their final project are required to enroll in this course. The Music Department will appoint a Departmental Committee to assist each candidate in the pursuit of his project. The office of the Coordinator of Graduate Music Programs will supply all added necessary information pertinent to the completion of each specific type of project.

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

Analysis of politics among nations and the problem of peace with emphasis on balance of power, collective security, world government, international law, military strategy, foreign policies of major powers, and theories of international relations.
534.01 Mathematical Physical Science II 3 S.H.
Class #9110 Pre-Session 6:00-8:30 Moses Rm. 34-315

Prerequisite: High school physics or college physical science or its equivalent.
A course in the physical sciences designed for graduate students in Elementary Education. The basic laws and principles of physics and chemistry are developed using all of the physical sciences including the areas of meteorology, astronomy and geology as sources of illustration of the application of these laws and principles.

534.52 Techniques for Demonstration and Laboratory Experiences in the Physical Sciences 3 S.H.
Class #9111 Pre-Session 6:00-8:30 Kolp Rm. 34-333

Prerequisites: General College Physics and General College Chemistry.
The aims and objectives of the teaching of the physical sciences in high school will be considered briefly. A study of the purposes and uses of laboratory experiments and demonstrations will be emphasized. Existing laboratory manuals and workbooks will be evaluated. The major portion of the work will consist in developing and perfecting numerous demonstrations and laboratory experiments for use in teaching. Enrollment is limited to 24 students.

534.75 National Science Foundation Institute in Harvard Physics 6 S.H.
Class #8160 Regular Day 9:30-4:30 Pregger Rm. 34-113

In depth study of the Harvard Project Physics materials and the basic concepts of physics which underlie them. Summer topics include concepts of motion, motion in the heavens, the triumph of mechanics, light and electromagnetism, models of the atom, the nucleus. The academic year phase involves problems in physics education and ongoing evaluation of the course and materials.

Open only to students accepted by the Physics Department for this program.

634.75 Quantum Mechanics 3 S.H.
Class #9221 Regular Evening Per. 4 Rothman Rm. 34-113

Prerequisites: General Physics, Calculus, Electricity and Magnetism, Modern Physics. Also desirable to have had a course in Differential Equations.
This course develops quantum mechanical concepts and applied mathematical methods developed to the solution of such problems as the structure of the hydrogen atom and alkali atoms. The Schroedinger approach is used throughout the course and usage is made of the Thomas-Fermi potential for the solution of alkali atom structure.

PSYCHOLOGY

525.40 Psychology of Learning 3 S.H.
Class #8155 Regular Day Per. 1 Rovee Rm. 32-16
Class #8156 Regular Day Per. 2 Rovee Rm. 32-16

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 #8157 Regular Day Per. 2 Houston Rm. 32-5

Prerequisite: 6 hours of psychology including child psychology.
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.
Psychological Problems of Children and Youth
Class #8158 Regular Day 3 S.H. Houston Rm. 32-5
Prerequisite: 525.22 or its equivalent.
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.

Measurement and Evaluation
Class #8159 Regular Day 3 S.H. Lide Rm. 32-7
Class #9220 Regular Evening 3 S.H. Lide Rm. 32-8
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

The Community: Its Social and Organizational Structure
Class #8161 Regular Day 3 S.H. Gillen Rm. 32-14
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.

Social Pathology and the Student
Class #8162 Regular Day 3 S.H. Lichtenberg Rm. 34-102
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.

Social Casework
Class #9222 Regular Evening 3 S.H. Engelbrecht Rm. 32-8
A presentation of the processes and methods required for the study, diagnosis and treatment of individuals and families with social impairment. Relationship of social work to casework practice; concepts, principles and application of resources such as familial, agencies and community organizations. Attention given to assumptions and techniques involved in client interviewing. Illustrative case material used as a basis for interpretation and management of social problems. The professional caseworker's responsibilities to related disciplines.

Sociology of Occupations
Class #8163 Regular Day 3 S.H. Wolcott Rm. 32-12
A survey of the complex division of labor found in modern society. In addition to an analysis of the major work categories, changes in their relative social importance, requirements for entry, and rewards will be evaluated. The course is not an appraisal of the current job market but aims to enhance the understanding of the world of work as it responds to social and technological change. Some attention will be given to the problem of alienating from work.
628.10 Independent Investigation 3 S.H.  
Class #8165 Regular Day  
Per. 1  
Schwartz  Rm. 34-115
Prerequisite: 528.35 or the equivalent.  
Provides an opportunity to study in depth an area of interest to the student. Provides opportunity for participation in an activity related to the area.

628.57 Stuttering 3 S.H.  
Class #8164 Regular Day  
Per. 2  
Schwartz  Rm. 34-114
Prerequisite: 528.35 or the equivalent.  
A study of etiology, evaluation, and correction of stuttering.

SPECIAL EDUCATION

529.20 Learning and Behavior Problems of Handicapped Children 3 S.H.  
Class #9112 Pre-Session  
6:00-8:30  
DiDia  Rm. 32-8  
Class #8166 Regular Day  
Per. 1  
Karn  Rm. 32-10
Prerequisite: Introductory course on the Exceptional Child and Child Psychology.  
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 3 S.H.  
Class #8167 Regular Day  
Per. 2  
Iriarte  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.

629.11 Guidance and Rehabilitation of Exceptional Children and Youth 3 S.H.  
Class #9223 Regular Evening  
Per. 3  
Riley  Rm. 32-9
Prerequisite: 529.20.  
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 on Diagnostic Procedures 4 S.H.
Class #8168 Regular Day Per. 2 DiDia Rm. 32-10
(Practicum hours required in afternoon)
Prerequisites: 529.22 or 529.23 or 529.24, or equivalent and permission of instructor.
This seminar will study the principal 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.

629.36 Seminar and Practicum on Remediation Techniques 4 S.H.
Class #8169 Regular Day Per. 2 Hritz Rm. 32-9
(Practicum hours required in afternoon)
Prerequisite: 629.26 and permission of instructor.
This course will study the principal remediation problems and procedures used in understanding and modifying the individual behavior and learning difficulties of children with developmental learning handicaps. A variety of approaches and techniques of remediation will be studied regarding their use in either individual and/or group instruction, how they relate to the diagnostic data, and how they can be integrated with current theories of learning and child development. The role of the teacher and the learning disability specialist in the remediation of learning problems will be stressed. The practicum will provide the student with varied experiences pertinent to the remediation process. The student will be expected to gain a working acquaintance with the more frequently used remediation procedures while functioning as a participant-observer in the evaluation and instruction of individual children by a diagnostic-remediation team. A minimum of 90 clock hours of practicum experience will be required.

629.60 Social and Emotional Problems of the Handicapped 3 S.H.
Class #9224 Regular Evening Per. 4 Lemeshow Rm. 32-11
Prerequisite: 529.20.
A study of the unique and typically abnormal psycho-social characteristics and stresses encountered by the handicapped child. The child's behavioral responses and personality development; ranging from normal adjustment mechanisms to the most serious pathological conditions will be analyzed in relation to these stresses. The roles of the educator and other professional personnel in the school and community agencies will be considered. Techniques of therapeutic intervention, behavior modification, and instruction will be introduced.

629.68 Biophysical and Neurological Problems of the Handicapped 3 S.H.
Class #9225 Regular Evening Per. 3 Lemeshow Rm. 32-11
Prerequisite: 529.20.
Designed to aid school personnel (1) to recognize bio-physical 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.
Critique of current research studies relevant to the theoretical and practical problems in the education of children with learning and achievement deficits. An attempt will be made to evaluate research needs and possibilities, especially as they relate to problems in instruction and program planning in educational settings.

Critique of current research studies relevant to the theoretical issues and practical problems in the education of children with sensory and/or motor disabilities — including those who are blind, deaf, neurologically impaired, cerebral palsy, and other orthopedically or physically handicapped. An attempt will be made to evaluate research needs and possibilities, especially as they relate to problems in instruction and program planning in educational settings.

Critique of current research studies relevant to the theoretical issues and practical problems in the education of children presenting behavior problems. Emphasis will be placed on the investigation of problems of personality development, social-emotional adjustment reactions, and the psychological dynamics of various types of handicapping conditions (i.e., mental and/or physical disabilities, cultural deprivation, etc.). An attempt will be made to evaluate research needs and possibilities, especially as they relate to problems in instruction and program planning in educational settings.

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.
NEW JERSEY STATE
SCHOOL OF CONSERVATION
John J. Kirk, Director

SUMMER SESSION 1970

PROGRAM

Program offerings at the School of Conservation include:

1. Teacher Education as 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

**Education 443**
Practicum in Camping Education
June 21 - August 22
3 semester hours
Instructor: Dr. John J. Kirk

**Education 444**
Practicum in Conservation Education
July 7 - 16
2 semester hours
Instructor: Dr. John J. Kirk

**Education 480**
Field Science for Elementary Teachers
July 5 - August 14
2 semester hours
Instructor: Mr. John Padalina

**Science 405**
Field and Laboratory Studies in Science
July 20 - 29
Conservation and Natural Resources
August 3 - 12
2 semester hours
Instructor: Mr. Jerry Schierloh

**Education 517.97C**
Practicum in Outdoor Education and Conservation
2 semester hours
Instructor: Dr. Mary Allessio

**Biology 203**
Introduction to Field Biology
Dates to be announced
2 semester hours
Instructor: Dr. S. Marie Kuhnen

*Enrollment limited to Camp Counselors.
LOCATION

The School of Conservation is located in Stokes State Forest. It borders Lake Wapalanne and is about nine miles northwest of Branchville, on 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

Telephone: (201) 948-4646
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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.

ALL STUDENTS REGISTERING FOR GRADUATE COURSES MUST REGISTER IN PERSON IN ACCORDANCE WITH THE REGISTRATION DATES LISTED IN CALENDAR. IN NO INSTANCE WILL MAIL REGISTRATIONS BE ACCEPTED FROM STUDENTS REGISTERING FOR GRADUATE COURSES.

TRENTON STATE COLLEGE

PLEASE PRINT

Semester: Fall □ Spring □ Summer □ 19...... Curriculum ......... Date .........

Name: ........................................ Last First Middle Maiden

Home Address ................................ Street City State Zip Code County

Home Phone ................................ Business Phone .................

Professional Address ....................... Street City State Zip Code County

Present Employment: Teaching in Grades .........


I have attended Trenton S.C. as a full-time day student: □ 1. Yes □ 2. No Dates ......... Institution .........

I have attended another college previously: □ 1. Yes □ 2. No Dates .........

Teaching Certificate Held: Objective: .........

Residence Status: Expect to Graduate This Year: As a veteran I plan to use P.L. 89-358

Graduate Students Only

Inst. Granting Baccalaureate Degree ......... Year ......... Major .........
Courses Requested (Copy exactly as listed in catalog)    Adviser’s Signature

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THIS SECTION TO BE FILLED OUT BY STUDENTS ENROLLING WITH TRENTON STATE COLLEGE FOR THE FIRST TIME

Place of Birth: .................................................. Date of Birth: ..................................

Are you a high school graduate or do you possess a certificate of equivalency? Yes □ No □

Have you ever been dismissed from any college or university for:

Unsatisfactory academic work? Yes □ No □  Disciplinary action? Yes □ No □

If dismissed, name of institution: .......................................................... Date: ..................................

I certify that the foregoing statements are true and accurate to the best of my knowledge. Falsification of this application may result in dismissal from courses and/or denial of course credit.

(Signature) .......................................................... (Date)